

APPENDIX 8

MATERIAL RE-USE DATA

Soil Analytical Results Summary - Site-won Natural Soils for Re-use

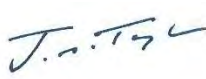
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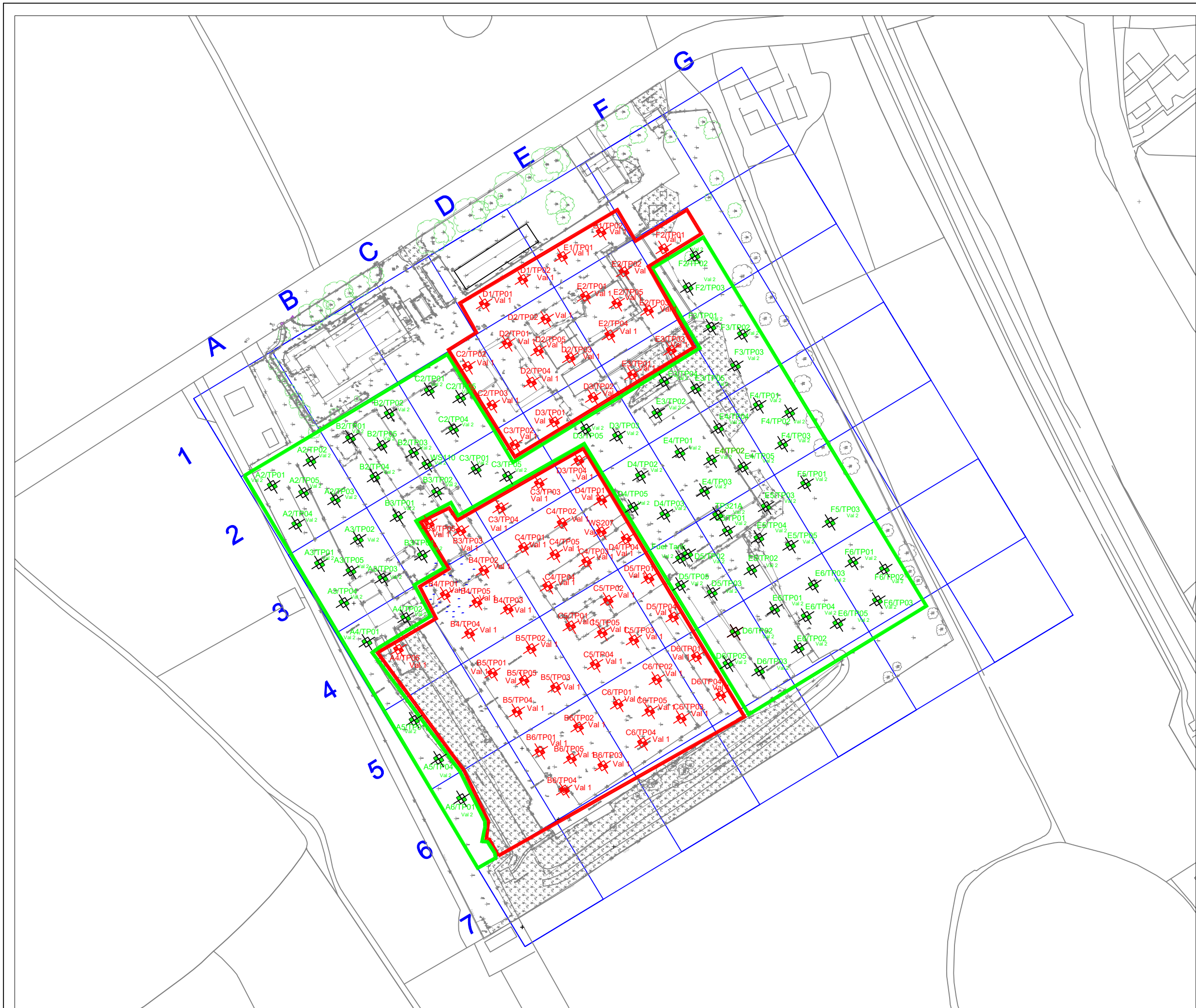
APPENDIX 9

DEVELOPMENT PLATFORM VERIFICATION – AAE PROFORMA C

Proforma C – Final Land Quality

TABLE 1. SITE DETAILS			
Site	SAUNDERTON DATA CENTRE, HAW LANE		
Plan reference	Phase 1 & Phase 2 Validation – Grid Squares A2-A6, B2-B6, C2-C6, D1-D6, E1-E6, F2-F6		
Area (sq m)	Phase 1 - Approx 34,300 m ² Phase 2 - Approx. 37,300 m ²		
Plan	223159/D/VAL/001		
Date(s) of Investigation	Phase 1: 06/09/22 07/09/22 08/09/22 05/10/22 13/10/22	Phase 2: 31/10/22 01/11/22 02/11/22 08/11/22	
Laboratory Reports	Phase 1 - Chemtest: 22-34300 22-34470 22-34478 22-38499	Phase 1 – Dets: 22-08610.1	Phase 2 – Dets: 22-09160.2 22-09347.1 22-09162.1 22-09348.1 22-09200.1 22-09349.1 22-09346.1 22-09603.1
Scope and attachments	Testing of final platform level. Sampling on 25 m grid across area at original pre-characterisation trial pit locations. Sampling of natural strata, all Made Ground removed as part of bulk excavation. Samples submitted to Chemtest Eurofins and Derwentside Environmental Testing Services Ltd, both UKAS/MCERTS accredited laboratories, for chemical analysis against a comprehensive solid suite. Attachments: • Photo Plates • Certificates of Analysis • Consolidated results Sampling plan is presented on drawing 223159/D/VAL/001. Reduced level/formation level survey to be provided by Enterprise.		

	Name	Signature	Date
Sign off	J Taylor		24/11/22



- KEY:**
- Phase 1 Validation Boundary Line
 - Phase 2 Validation Boundary Line
 - AAe Phase 1 Validation Sampling points
 - AAe Phase 2 Validation Sampling points

Rev.	Details		Drawn Chkd.	Date
Project 223159 Saunderton				
Title Site Validation Plan including Phase 1 and 2				
 AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk				
Scale 1:2,000@A3	Date Nov '22	Drawn SD	Chkd. JNT	Drg. No. 223159/D/VAL/001
				Rev. A



2183



Final Report

Report No.: 22-34300-1
Initial Date of Issue: 20-Sep-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 08-Sep-2022

Order No.: 223159 **Date Instructed:** 08-Sep-2022

No. of Samples: 44

Turnaround (Wkdays): 4 **Results Due:** 13-Sep-2022

Date Approved: 20-Sep-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502481	1502482	1502483	1502484	1502485	1502486	1502487	1502488	1502489
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D1/TP01	D1/TP02	E1/TP01	E1/TP02	E2/TP02	E2/TP01	D2/TP01	D2/TP02	D2/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	16	17	16	15	15	18	18	18	17
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.5	8.5	8.6	8.8	8.9	9.0	8.9	9.1	8.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.2	1.3	1.5	2.0	2.2	1.9	1.6	1.1	1.5
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	0.6	< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	3.0	1.2	1.0	1.0	2.2	1.9	1.0	1.0	0.8
Copper	M	2455	mg/kg	0.50	3.6	1.6	1.7	1.8	6.0	4.1	1.9	1.6	1.6
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	2.6	1.4	1.4	1.3	2.0	1.9	1.4	1.4	1.3
Lead	M	2455	mg/kg	0.50	3.0	1.2	1.2	1.6	8.0	5.5	1.4	1.1	1.3
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	1.5	1.1	1.2	1.2	2.1	1.9	1.2	1.1	0.9
Zinc	M	2455	mg/kg	0.50	13	7.8	8.0	8.7	16	13	8.5	9.0	8.7
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	0.72	0.47	2.2	2.2	0.52	1.4	1.6	< 0.20	1.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502481	1502482	1502483	1502484	1502485	1502486	1502487	1502488	1502489
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D1/TP01	D1/TP02	E1/TP01	E1/TP02	E2/TP02	E2/TP01	D2/TP01	D2/TP02	D2/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	M	2760	µg/kg	1.0									
Vinyl Chloride	M	2760	µg/kg	1.0									
Bromomethane	M	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	M	2760	µg/kg	1.0									
1,1-Dichloroethene	M	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0									
1,1-Dichloroethane	M	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	M	2760	µg/kg	1.0									
1,1,1-Trichloroethane	M	2760	µg/kg	1.0									
Tetrachloromethane	M	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502481	1502482	1502483	1502484	1502485	1502486	1502487	1502488	1502489
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D1/TP01	D1/TP02	E1/TP01	E1/TP02	E2/TP02	E2/TP01	D2/TP01	D2/TP02	D2/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	M	2760	µg/kg	1.0									
Dibromomethane	M	2760	µg/kg	1.0									
Bromodichloromethane	M	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	M	2760	µg/kg	10									
Tetrachloroethene	M	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	M	2760	µg/kg	5.0									
Chlorobenzene	M	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0									
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	M	2760	µg/kg	1.0									
Bromobenzene	M	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	M	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502490	1502491	1502492	1502493	1502494	1502495	1502496	1502497	1502498
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E2/TP05	E2/TP03	E2/TP04	D2/TP03	D2/TP04	D3/TP01	D3/TP03	D3/TP05	D3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	17	18	20	18	19	19	20	22
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	9.1	8.8	9.0	9.1	8.9	8.8	8.8	9.0	9.1
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.014	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.5	2.3	1.1	0.50	1.1	1.4	0.94	0.80	0.87
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	< 0.5	0.5	1.0	< 0.5	< 0.5	1.0	0.8	0.7	< 0.5
Copper	M	2455	mg/kg	0.50	< 0.50	1.2	1.8	1.7	0.83	3.1	2.3	1.7	1.1
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	< 0.50	0.88	1.4	0.85	0.54	2.0	1.4	1.3	0.85
Lead	M	2455	mg/kg	0.50	< 0.50	0.76	1.0	0.91	< 0.50	2.4	1.2	1.1	0.63
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	< 0.5	0.6	1.0	0.5	< 0.5	1.6	1.2	0.9	0.7
Zinc	M	2455	mg/kg	0.50	< 0.50	5.6	7.7	5.8	3.6	11	9.9	8.3	5.2
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.5	1.9	2.1	2.8	5.9	1.5	3.2	3.0	0.66
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502490	1502491	1502492	1502493	1502494	1502495	1502496	1502497	1502498
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E2/TP05	E2/TP03	E2/TP04	D2/TP03	D2/TP04	D3/TP01	D3/TP03	D3/TP05	D3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	M	2760	µg/kg	1.0									
Vinyl Chloride	M	2760	µg/kg	1.0									
Bromomethane	M	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	M	2760	µg/kg	1.0									
1,1-Dichloroethene	M	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0									
1,1-Dichloroethane	M	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	M	2760	µg/kg	1.0									
1,1,1-Trichloroethane	M	2760	µg/kg	1.0									
Tetrachloromethane	M	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502490	1502491	1502492	1502493	1502494	1502495	1502496	1502497	1502498
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E2/TP05	E2/TP03	E2/TP04	D2/TP03	D2/TP04	D3/TP01	D3/TP03	D3/TP05	D3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	M	2760	µg/kg	1.0									
Dibromomethane	M	2760	µg/kg	1.0									
Bromodichloromethane	M	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	M	2760	µg/kg	10									
Tetrachloroethene	M	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	M	2760	µg/kg	5.0									
Chlorobenzene	M	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0									
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	M	2760	µg/kg	1.0									
Bromobenzene	M	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	M	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502499	1502500	1502501	1502502	1502503	1502504	1502505	1502506	1502507
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D3/TP02	D4/TP01	D4/TP02	E3/TP02	E3/TP01	E4/TP01	E4/TP02	E4/TP03	D4/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	16	15	16	16	14	16	14	14
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	9.8	8.9	8.9	8.4	8.9	8.7	8.6	8.9	9.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.42	< 0.40	< 0.40	0.53	< 0.40	< 0.40	< 0.40	0.53	0.41
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	12	1.5	0.83	2.1	1.3	0.84	3.0	0.84	0.51
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	0.7	< 0.5	0.7	0.8	0.8	0.6	0.8	0.6	0.6
Copper	M	2455	mg/kg	0.50	1.7	0.99	1.1	2.0	1.8	1.2	1.7	1.3	1.1
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.1	0.66	0.80	1.4	1.5	0.94	1.2	0.92	0.84
Lead	M	2455	mg/kg	0.50	1.1	0.56	0.65	1.0	1.0	0.61	0.86	0.69	0.65
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.9	< 0.5	0.6	1.0	1.3	0.7	1.0	0.7	0.6
Zinc	M	2455	mg/kg	0.50	5.9	4.4	5.8	7.3	7.1	4.8	6.7	5.5	5.5
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.4	5.2	2.4	1.5	1.4	2.2	0.35	< 0.20	1.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502499	1502500	1502501	1502502	1502503	1502504	1502505	1502506	1502507
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D3/TP02	D4/TP01	D4/TP02	E3/TP02	E3/TP01	E4/TP01	E4/TP02	E4/TP03	D4/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.68	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	11	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.9	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	21	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	19	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	9.0	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	8.9	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	11	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	4.4	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	8.9	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	96	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	M	2760	µg/kg	1.0									
Vinyl Chloride	M	2760	µg/kg	1.0									
Bromomethane	M	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	M	2760	µg/kg	1.0									
1,1-Dichloroethene	M	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0									
1,1-Dichloroethane	M	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	M	2760	µg/kg	1.0									
1,1,1-Trichloroethane	M	2760	µg/kg	1.0									
Tetrachloromethane	M	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502499	1502500	1502501	1502502	1502503	1502504	1502505	1502506	1502507
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D3/TP02	D4/TP01	D4/TP02	E3/TP02	E3/TP01	E4/TP01	E4/TP02	E4/TP03	D4/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	M	2760	µg/kg	1.0									
Dibromomethane	M	2760	µg/kg	1.0									
Bromodichloromethane	M	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	M	2760	µg/kg	10									
Tetrachloroethene	M	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	M	2760	µg/kg	5.0									
Chlorobenzene	M	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0									
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	M	2760	µg/kg	1.0									
Bromobenzene	M	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	M	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502508	1502509	1502510	1502511	1502512	1502513	1502514	1502515	1502516
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D4/TP05	D4/TP04	E5/TP01	D5/TP02	D5/TP01	Fuel Tank	D5/TP05	D5/TP04	D5/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	16	13	13	13	15	14	12	13	13
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	9.1	8.9	9.0	9.0	9.2	9.2	9.1	8.8	8.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	0.50	< 0.40	0.59	< 0.40	< 0.40	< 0.40	< 0.40	0.47
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	0.70	0.50	0.50	0.70	0.60	0.70	0.60	0.60
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.3	0.84	0.90	1.8	0.77	0.78	1.3	0.95	0.93
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	0.6	0.6	0.9	0.7	0.8	1.0	0.8	0.8	1.2
Copper	M	2455	mg/kg	0.50	1.3	1.3	1.8	1.3	1.7	1.9	1.5	1.4	1.7
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	0.85	0.94	1.4	1.0	1.3	1.4	1.1	1.1	1.4
Lead	M	2455	mg/kg	0.50	0.69	0.90	0.97	0.74	0.88	1.0	1.2	0.94	1.3
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.7	0.8	1.0	0.9	1.1	1.1	0.9	0.8	1.9
Zinc	M	2455	mg/kg	0.50	5.6	5.9	7.9	6.2	7.4	9.0	6.8	7.2	8.5
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	< 0.20	0.67	0.68	1.2	0.65	2.7	< 0.20	< 0.20	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502508	1502509	1502510	1502511	1502512	1502513	1502514	1502515	1502516
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D4/TP05	D4/TP04	E5/TP01	D5/TP02	D5/TP01	Fuel Tank	D5/TP05	D5/TP04	D5/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.5
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.3
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.7
Dichlorodifluoromethane	U	2760	µg/kg	1.0			< 1.0			< 1.0			
Chloromethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Vinyl Chloride	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Bromomethane	M	2760	µg/kg	20			< 20			< 20			
Chloroethane	U	2760	µg/kg	2.0			< 2.0			< 2.0			
Trichlorofluoromethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,1-Dichloroethene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,1-Dichloroethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0			< 5.0			< 5.0			
Trichloromethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,1,1-Trichloroethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Tetrachloromethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,1-Dichloropropene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0			< 2.0			< 2.0			
Trichloroethene	N	2760	µg/kg	1.0			< 1.0			< 1.0			

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502508	1502509	1502510	1502511	1502512	1502513	1502514	1502515	1502516
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				D4/TP05	D4/TP04	E5/TP01	D5/TP02	D5/TP01	Fuel Tank	D5/TP05	D5/TP04	D5/TP03
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Dibromomethane	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Bromodichloromethane	M	2760	µg/kg	5.0			< 5.0			< 5.0			
cis-1,3-Dichloropropene	N	2760	µg/kg	10			< 10			< 10			
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10			< 10			< 10			
1,1,2-Trichloroethane	M	2760	µg/kg	10			< 10			< 10			
Tetrachloroethene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,3-Dichloropropane	U	2760	µg/kg	2.0			< 2.0			< 2.0			
Dibromochloromethane	U	2760	µg/kg	10			< 10			< 10			
1,2-Dibromoethane	M	2760	µg/kg	5.0			< 5.0			< 5.0			
Chlorobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0			< 2.0			< 2.0			
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Tribromomethane	U	2760	µg/kg	1.0			< 1.0			< 1.0			
Isopropylbenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Bromobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,2,3-Trichloropropane	N	2760	µg/kg	50			< 50			< 50			
N-Propylbenzene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
2-Chlorotoluene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
4-Chlorotoluene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
Tert-Butylbenzene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Sec-Butylbenzene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
1,3-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
4-Isopropyltoluene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
1,4-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
N-Butylbenzene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
1,2-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50			< 50			< 50			
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Hexachlorobutadiene	U	2760	µg/kg	1.0			< 1.0			< 1.0			
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0			< 2.0			< 2.0			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			< 1.0			< 1.0			
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502517	1502518	1502519	1502520	1502521	1502522	1502523	1502524
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E5/TP02	E6/TP01	D6/TP02	D6/TP01	D6/TP04	D6/TP05	D6/TP03	E6/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	17	11	12	14	11	12	12	14
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.9	9.1	7.9	8.0	7.8	8.1	7.9	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.45	< 0.40	1.6	< 0.40	0.55	0.54	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.3	1.4	0.95	0.61	1.3	0.77	0.68	1.2
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	0.5	1.0	0.9	< 0.5	1.0	1.1	0.9	0.7
Copper	M	2455	mg/kg	0.50	1.3	2.2	1.3	< 0.50	1.2	1.4	1.4	1.3
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.0	1.9	1.2	< 0.50	1.3	1.4	1.2	1.1
Lead	M	2455	mg/kg	0.50	0.88	1.4	1.2	< 0.50	0.86	0.92	0.95	1.5
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.7	1.0	1.0	< 0.5	1.0	1.1	1.0	0.7
Zinc	M	2455	mg/kg	0.50	5.7	8.9	7.0	< 0.50	6.9	7.4	6.7	8.1
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.2	1.4	< 0.20	0.97	< 0.20	3.9	0.61	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502517	1502518	1502519	1502520	1502521	1502522	1502523	1502524
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E5/TP02	E6/TP01	D6/TP02	D6/TP01	D6/TP04	D6/TP05	D6/TP03	E6/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	3.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	6.6	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	28	< 0.10	< 0.10	2.0	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	26	< 0.10	< 0.10	2.1	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	10	< 0.10	< 0.10	0.93	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	5.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	8.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	180	< 2.0	< 2.0	6.1	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0								
Chloromethane	M	2760	µg/kg	1.0								
Vinyl Chloride	M	2760	µg/kg	1.0								
Bromomethane	M	2760	µg/kg	20								
Chloroethane	U	2760	µg/kg	2.0								
Trichlorofluoromethane	M	2760	µg/kg	1.0								
1,1-Dichloroethene	M	2760	µg/kg	1.0								
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0								
1,1-Dichloroethane	M	2760	µg/kg	1.0								
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0								
Bromochloromethane	U	2760	µg/kg	5.0								
Trichloromethane	M	2760	µg/kg	1.0								
1,1,1-Trichloroethane	M	2760	µg/kg	1.0								
Tetrachloromethane	M	2760	µg/kg	1.0								
1,1-Dichloropropene	U	2760	µg/kg	1.0								
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0								
Trichloroethene	N	2760	µg/kg	1.0								

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300
Quotation No.:	Chemtest Sample ID.:				1502517	1502518	1502519	1502520	1502521	1502522	1502523	1502524
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				E5/TP02	E6/TP01	D6/TP02	D6/TP01	D6/TP04	D6/TP05	D6/TP03	E6/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
1,2-Dichloropropane	M	2760	µg/kg	1.0								
Dibromomethane	M	2760	µg/kg	1.0								
Bromodichloromethane	M	2760	µg/kg	5.0								
cis-1,3-Dichloropropene	N	2760	µg/kg	10								
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10								
1,1,2-Trichloroethane	M	2760	µg/kg	10								
Tetrachloroethene	M	2760	µg/kg	1.0								
1,3-Dichloropropane	U	2760	µg/kg	2.0								
Dibromochloromethane	U	2760	µg/kg	10								
1,2-Dibromoethane	M	2760	µg/kg	5.0								
Chlorobenzene	M	2760	µg/kg	1.0								
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0								
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0								
Tribromomethane	U	2760	µg/kg	1.0								
Isopropylbenzene	M	2760	µg/kg	1.0								
Bromobenzene	M	2760	µg/kg	1.0								
1,2,3-Trichloropropane	N	2760	µg/kg	50								
N-Propylbenzene	U	2760	µg/kg	1.0								
2-Chlorotoluene	M	2760	µg/kg	1.0								
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0								
4-Chlorotoluene	U	2760	µg/kg	1.0								
Tert-Butylbenzene	U	2760	µg/kg	1.0								
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0								
Sec-Butylbenzene	U	2760	µg/kg	1.0								
1,3-Dichlorobenzene	M	2760	µg/kg	1.0								
4-Isopropyltoluene	U	2760	µg/kg	1.0								
1,4-Dichlorobenzene	M	2760	µg/kg	1.0								
N-Butylbenzene	U	2760	µg/kg	1.0								
1,2-Dichlorobenzene	M	2760	µg/kg	1.0								
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50								
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0								
Hexachlorobutadiene	U	2760	µg/kg	1.0								
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0								
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0								
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5-C6, >C6-C8,>C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 22-34470-1
Initial Date of Issue: 15-Sep-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 09-Sep-2022

Order No.: 223159 **Date Instructed:** 09-Sep-2022

No. of Samples: 20

Turnaround (Wkdays): 4 **Results Due:** 14-Sep-2022

Date Approved: 15-Sep-2022

Approved By:

Details: Stuart Henderson, Technical
Manager

Bulk Identification Certificate

Client: AA Environmental Ltd
Site Address:
Date Sampled: 08-Sep-2022
Date Received: 09-Sep-2022

Your Ref.:
Project: 223159 Saunderton
Job Number: 22-34470
No Samples:
Date Reported: 15-Sep-2022

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1503183	AS38		A2/TP01			2185	U	DURHAM	Cement	Chrysotile
1503197	AS39		A5/TP01			2185	U	COVENTRY	Board	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503182	1503184	1503185	1503186	1503187	1503188	1503189	1503190	1503191
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A2/TP01	A2/TP02	A2/TP05	A2/TP04	A2/TP03	A3/TP01	A3/TP02	A3/TP05	A3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	COVENTRY	COVENTRY	DURHAM	DURHAM	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	Fibres/Clumps	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	Amosite	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	0.004								
Total Asbestos	U	2192	%	0.001	0.004								
Moisture	N	2030	%	0.020	12	16	17	18	20	18	19	20	16
Soil Colour	N	2040		N/A	Brown	White	Beige	Beige	White	White	White	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Loam	Sand	Sand
pH	M	2010		4.0	8.2	8.8	8.7	8.6	8.8	8.9	9.1	9.2	9.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.71	< 0.40	< 0.40	0.54	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.82	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	4.3	1.1	1.6	4.4	0.98	1.5	1.4	< 0.50	1.1
Arsenic	M	2455	mg/kg	0.5	4.2	< 0.5	< 0.5	1.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	1.9	< 0.10	< 0.10	0.12	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	9.2	3.7	1.5	3.6	0.6	1.1	1.3	0.8	1.0
Copper	M	2455	mg/kg	0.50	33	1.8	2.0	4.7	1.2	2.3	8.6	1.2	1.6
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	9.7	2.2	1.9	3.6	0.77	1.5	2.1	1.0	1.2
Lead	M	2455	mg/kg	0.50	56	1.9	1.8	9.2	0.88	1.6	2.5	0.79	1.5
Selenium	M	2455	mg/kg	0.25	0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	21	1.7	1.3	5.1	0.7	1.4	2.4	0.8	1.1
Zinc	M	2455	mg/kg	0.50	190	10	9.1	20	6.7	8.0	21	6.1	6.9
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	3.0	< 0.20	2.8	1.0	4.7	0.98	0.49	5.1	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503182	1503184	1503185	1503186	1503187	1503188	1503189	1503190	1503191
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A2/TP01	A2/TP02	A2/TP05	A2/TP04	A2/TP03	A3/TP01	A3/TP02	A3/TP05	A3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	COVENTRY	COVENTRY	DURHAM	DURHAM	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	0.30	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	0.84	< 0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	0.82	< 0.10	< 0.10	1.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.49	< 0.10	< 0.10	0.72	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	0.63	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	0.77	< 0.10	< 0.10	2.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.30	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	0.59	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	4.9	< 2.0	< 2.0	16	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	M	2760	µg/kg	1.0									
Vinyl Chloride	M	2760	µg/kg	1.0									
Bromomethane	M	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	M	2760	µg/kg	1.0									
1,1-Dichloroethene	M	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0									
1,1-Dichloroethane	M	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	M	2760	µg/kg	1.0									
1,1,1-Trichloroethane	M	2760	µg/kg	1.0									
Tetrachloromethane	M	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503182	1503184	1503185	1503186	1503187	1503188	1503189	1503190	1503191
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A2/TP01	A2/TP02	A2/TP05	A2/TP04	A2/TP03	A3/TP01	A3/TP02	A3/TP05	A3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	COVENTRY	COVENTRY	DURHAM	DURHAM	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloroethane	M	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									
1,2-Dichloropropane	M	2760	µg/kg	1.0									
Dibromomethane	M	2760	µg/kg	1.0									
Bromodichloromethane	M	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	M	2760	µg/kg	10									
Tetrachloroethene	M	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	M	2760	µg/kg	5.0									
Chlorobenzene	M	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0									
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	M	2760	µg/kg	1.0									
Bromobenzene	M	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	M	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503182	1503184	1503185	1503186	1503187	1503188	1503189	1503190	1503191
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A2/TP01	A2/TP02	A2/TP05	A2/TP04	A2/TP03	A3/TP01	A3/TP02	A3/TP05	A3/TP04
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	COVENTRY	COVENTRY	DURHAM	DURHAM	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503192	1503193	1503194	1503195	1503196	1503198	1503199	1503200	1503201
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A3/TP03	A4/TP01	A4/TP02	A4/TP05	A5/TP01	A5/TP04	A6/TP01	WS207	TP321A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	U	2192	%	0.001									
Moisture	N	2030	%	0.020	18	18	19	17	14	19	20	20	19
Soil Colour	N	2040		N/A	White	White	White	White	Beige	Beige	Beige	White	White
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	None	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Chalk
pH	M	2010		4.0	8.8	8.8	9.0	9.0	8.6	8.9	8.9	8.8	8.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.89	< 0.40	< 0.40	0.56	0.69
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.038	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.6	1.0	0.67	1.4	1.1	0.86	3.0	0.91	< 0.50
Arsenic	M	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.8	< 0.5	< 0.5	0.7	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	1.0	1.6	1.4	1.0	24	1.2	0.6	2.4	1.5
Copper	M	2455	mg/kg	0.50	1.8	2.8	2.4	0.77	17	1.6	1.1	3.8	2.3
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.4	1.8	1.9	1.0	16	1.1	0.89	2.2	1.4
Lead	M	2455	mg/kg	0.50	1.2	3.2	2.5	0.80	16	1.6	0.79	14	2.7
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.28	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	1.1	2.2	2.1	1.0	34	1.1	0.8	4.4	2.2
Zinc	M	2455	mg/kg	0.50	9.5	14	11	5.1	71	5.5	4.8	14	11
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.3	0.72	1.1	2.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503192	1503193	1503194	1503195	1503196	1503198	1503199	1503200	1503201
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A3/TP03	A4/TP01	A4/TP02	A4/TP05	A5/TP01	A5/TP04	A6/TP01	WS207	TP321A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.8	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	0.57	< 0.10	< 0.10	7.5	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	0.54	< 0.10	< 0.10	7.3	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.0	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.2	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.5	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.0	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	34	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									< 1.0
Chloromethane	M	2760	µg/kg	1.0									< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0									< 1.0
Bromomethane	M	2760	µg/kg	20									< 20
Chloroethane	U	2760	µg/kg	2.0									< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0									< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0									< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0									< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0									< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0									< 1.0
Bromochloromethane	U	2760	µg/kg	5.0									< 5.0
Trichloromethane	M	2760	µg/kg	1.0									< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0									< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0									< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0									< 1.0
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503192	1503193	1503194	1503195	1503196	1503198	1503199	1503200	1503201
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A3/TP03	A4/TP01	A4/TP02	A4/TP05	A5/TP01	A5/TP04	A6/TP01	WS207	TP321A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloroethane	M	2760	µg/kg	2.0									< 2.0
Trichloroethene	N	2760	µg/kg	1.0									< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0									< 1.0
Dibromomethane	M	2760	µg/kg	1.0									< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0									< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10									< 10
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10									< 10
Tetrachloroethene	M	2760	µg/kg	1.0									< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0									< 2.0
Dibromochloromethane	U	2760	µg/kg	10									< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0									< 5.0
Chlorobenzene	M	2760	µg/kg	1.0									< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0									< 2.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1.0									< 1.0
Tribromomethane	U	2760	µg/kg	1.0									< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0									< 1.0
Bromobenzene	M	2760	µg/kg	1.0									< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50									< 50
N-Propylbenzene	U	2760	µg/kg	1.0									< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0									< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0									< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0									< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0									< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0									< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0									< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0									< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0									< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0									< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0									< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0									< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									< 2.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470	22-34470
Quotation No.:	Chemtest Sample ID.:				1503192	1503193	1503194	1503195	1503196	1503198	1503199	1503200	1503201
	Client Sample ID.:				VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1
	Sample Location:				A3/TP03	A4/TP01	A4/TP02	A4/TP05	A5/TP01	A5/TP04	A6/TP01	WS207	TP321A
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022	08-Sep-2022
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0									< 1.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 22-34478-1
Initial Date of Issue: 15-Sep-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 09-Sep-2022

Order No.: 223159 **Date Instructed:** 09-Sep-2022

No. of Samples: 47

Turnaround (Wkdays): 3 **Results Due:** 13-Sep-2022

Date Approved: 15-Sep-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503220	1503221	1503222	1503223	1503224	1503225	1503226	1503227	1503228
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP03	C6/TP04	B6/TP03	B6/TP04	B6/TP01	B6/TP05	B6/TP02	C6/TP01	C6/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	19	18	20	20	20	18	20	17	23
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	U	2010		4.0	8.3	8.7	8.6	8.8	8.7	8.8	9.0	8.7	8.9
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.70	1.6	1.0	0.72	1.4	0.74	1.0	1.6	< 0.50
Arsenic	U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	2.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	0.7	0.5	0.6	1.5	0.6	1.2	0.7	1.0	0.9
Copper	U	2455	mg/kg	0.50	1.2	1.0	1.2	11	0.79	2.2	1.1	1.2	1.0
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	1.1	0.80	1.0	4.0	0.74	1.8	1.0	1.2	0.98
Lead	U	2455	mg/kg	0.50	1.0	0.79	0.73	5.1	0.72	1.6	0.76	0.91	0.83
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.8	0.6	0.8	3.1	0.7	1.4	0.9	0.9	0.9
Zinc	U	2455	mg/kg	0.50	6.8	5.7	5.7	23	4.1	11	5.7	6.9	5.7
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	4.4	3.6	0.32	1.7	2.0	3.3	3.5	4.0	2.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503220	1503221	1503222	1503223	1503224	1503225	1503226	1503227	1503228
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP03	C6/TP04	B6/TP03	B6/TP04	B6/TP01	B6/TP05	B6/TP02	C6/TP01	C6/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	U	2760	µg/kg	1.0									
Vinyl Chloride	U	2760	µg/kg	1.0									
Bromomethane	U	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	U	2760	µg/kg	1.0									
1,1-Dichloroethene	U	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0									
1,1-Dichloroethane	U	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	U	2760	µg/kg	1.0									
1,1,1-Trichloroethane	U	2760	µg/kg	1.0									
Tetrachloromethane	U	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503220	1503221	1503222	1503223	1503224	1503225	1503226	1503227	1503228
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP03	C6/TP04	B6/TP03	B6/TP04	B6/TP01	B6/TP05	B6/TP02	C6/TP01	C6/TP05
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	U	2760	µg/kg	1.0									
Dibromomethane	U	2760	µg/kg	1.0									
Bromodichloromethane	U	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	U	2760	µg/kg	10									
Tetrachloroethene	U	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	U	2760	µg/kg	5.0									
Chlorobenzene	U	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0									
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	U	2760	µg/kg	1.0									
Bromobenzene	U	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	U	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	U	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	U	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	U	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0									
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503229	1503230	1503231	1503232	1503233	1503234	1503235	1503236	1503237
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP02	C5/TP03	C5/TP04	B5/TP03	B5/TP04	B5/TP01	B5/TP05	B5/TP02	C5/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020		19	19	18	18	17	20	18	18
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	U	2010		4.0	8.9	9.0	8.5	8.8	8.7	8.7	8.8	8.6	8.8
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	< 0.50	1.5	0.65	0.95	0.76	0.66	1.2	1.5	0.78
Arsenic	U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	0.8	1.5	0.9	0.8	5.1	170	13	3.4	1.1
Copper	U	2455	mg/kg	0.50	0.98	2.7	1.2	1.1	1.3	5.6	1.2	1.1	0.89
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	0.76	1.4	1.2	1.0	2.0	16	1.3	1.0	0.81
Lead	U	2455	mg/kg	0.50	0.68	1.2	0.79	0.82	1.1	0.73	0.81	0.86	0.69
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.7	1.2	1.0	0.9	1.2	1.2	1.0	0.9	0.7
Zinc	U	2455	mg/kg	0.50	4.9	8.3	6.1	6.7	8.2	8.1	6.0	5.8	8.1
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	< 0.20	< 0.20	0.32	1.4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503229	1503230	1503231	1503232	1503233	1503234	1503235	1503236	1503237
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP02	C5/TP03	C5/TP04	B5/TP03	B5/TP04	B5/TP01	B5/TP05	B5/TP02	C5/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	U	2760	µg/kg	1.0									
Vinyl Chloride	U	2760	µg/kg	1.0									
Bromomethane	U	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	U	2760	µg/kg	1.0									
1,1-Dichloroethene	U	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0									
1,1-Dichloroethane	U	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	U	2760	µg/kg	1.0									
1,1,1-Trichloroethane	U	2760	µg/kg	1.0									
Tetrachloromethane	U	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503229	1503230	1503231	1503232	1503233	1503234	1503235	1503236	1503237
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C6/TP02	C5/TP03	C5/TP04	B5/TP03	B5/TP04	B5/TP01	B5/TP05	B5/TP02	C5/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	U	2760	µg/kg	1.0									
Dibromomethane	U	2760	µg/kg	1.0									
Bromodichloromethane	U	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	U	2760	µg/kg	10									
Tetrachloroethene	U	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	U	2760	µg/kg	5.0									
Chlorobenzene	U	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0									
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	U	2760	µg/kg	1.0									
Bromobenzene	U	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	U	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	U	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	U	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	U	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0									
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503238	1503239	1503240	1503241	1503242	1503243	1503244	1503245	1503246
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C5/TP05	C5/TP02	C4/TP03	C4/TP04	B4/TP03	B4/TP04	B4/TP01	B4/TP05	B4/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	19	17	19	19	21	17	16	19	19
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	U	2010		4.0	9.1	8.7	8.8	9.1	9.2	8.9	9.0	9.1	9.1
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.68	1.6	< 0.50	< 0.50	0.79	1.7	< 0.50	0.55	1.5
Arsenic	U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13
Chromium	U	2455	mg/kg	0.5	0.8	< 0.5	0.8	0.8	0.7	0.8	1.3	0.7	1.5
Copper	U	2455	mg/kg	0.50	1.1	0.63	1.1	1.3	1.3	1.3	1.5	0.97	2.5
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	0.89	< 0.50	0.94	0.93	1.1	0.99	1.1	0.89	1.2
Lead	U	2455	mg/kg	0.50	0.72	< 0.50	0.63	0.69	1.1	1.3	1.6	0.62	4.8
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.8	< 0.5	0.7	0.7	0.8	1.0	0.9	0.8	0.9
Zinc	U	2455	mg/kg	0.50	5.4	3.0	5.9	5.3	6.2	6.8	8.9	6.7	57
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	< 0.20	1.3	0.76	1.1	1.4	0.29	< 0.20	3.4	0.47
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503238	1503239	1503240	1503241	1503242	1503243	1503244	1503245	1503246
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C5/TP05	C5/TP02	C4/TP03	C4/TP04	B4/TP03	B4/TP04	B4/TP01	B4/TP05	B4/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0						< 1.0			
Chloromethane	U	2760	µg/kg	1.0						< 1.0			
Vinyl Chloride	U	2760	µg/kg	1.0						< 1.0			
Bromomethane	U	2760	µg/kg	20						< 20			
Chloroethane	U	2760	µg/kg	2.0						< 2.0			
Trichlorofluoromethane	U	2760	µg/kg	1.0						< 1.0			
1,1-Dichloroethene	U	2760	µg/kg	1.0						< 1.0			
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0						< 1.0			
1,1-Dichloroethane	U	2760	µg/kg	1.0						< 1.0			
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0						< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0						< 5.0			
Trichloromethane	U	2760	µg/kg	1.0						< 1.0			
1,1,1-Trichloroethane	U	2760	µg/kg	1.0						< 1.0			
Tetrachloromethane	U	2760	µg/kg	1.0						< 1.0			
1,1-Dichloropropene	U	2760	µg/kg	1.0						< 1.0			
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0						< 2.0			
Trichloroethene	N	2760	µg/kg	1.0						< 1.0			

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503238	1503239	1503240	1503241	1503242	1503243	1503244	1503245	1503246
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C5/TP05	C5/TP02	C4/TP03	C4/TP04	B4/TP03	B4/TP04	B4/TP01	B4/TP05	B4/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	U	2760	µg/kg	1.0							< 1.0		
Dibromomethane	U	2760	µg/kg	1.0							< 1.0		
Bromodichloromethane	U	2760	µg/kg	5.0							< 5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10							< 10		
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10							< 10		
1,1,2-Trichloroethane	U	2760	µg/kg	10							< 10		
Tetrachloroethene	U	2760	µg/kg	1.0							< 1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0							< 2.0		
Dibromochloromethane	U	2760	µg/kg	10							< 10		
1,2-Dibromoethane	U	2760	µg/kg	5.0							< 5.0		
Chlorobenzene	U	2760	µg/kg	1.0							< 1.0		
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0							< 2.0		
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0							< 1.0		
Tribromomethane	U	2760	µg/kg	1.0							< 1.0		
Isopropylbenzene	U	2760	µg/kg	1.0							< 1.0		
Bromobenzene	U	2760	µg/kg	1.0							< 1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50							< 50		
N-Propylbenzene	U	2760	µg/kg	1.0							< 1.0		
2-Chlorotoluene	U	2760	µg/kg	1.0							< 1.0		
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0							< 1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0							< 1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0							< 1.0		
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0							< 1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0							< 1.0		
1,3-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0							< 1.0		
1,4-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0		
N-Butylbenzene	U	2760	µg/kg	1.0							< 1.0		
1,2-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50							< 50		
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0							< 1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0							< 1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0							< 2.0		
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0							< 1.0		
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503247	1503248	1503249	1503250	1503251	1503252	1503253	1503254	1503255
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C4/TP01	C4/TP05	C4/TP02	C3/TP03	C3/TP04	B3/TP03	B3/TP04	B3/TP05	B3/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	19	20	19	18	19	19	19	18	18
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	U	2010		4.0	9.0	9.2	9.1	8.9	9.3	8.8	9.2	9.1	8.8
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.71	0.79	1.7	0.76	0.90	1.4	0.61	0.57	1.8
Arsenic	U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	0.7	0.5	1.1	0.8	0.8	1.4	0.8	0.7	0.6
Copper	U	2455	mg/kg	0.50	1.2	1.3	1.3	1.4	1.2	1.7	1.3	1.2	1.3
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	0.91	0.69	1.2	1.2	1.1	1.4	0.97	0.73	0.93
Lead	U	2455	mg/kg	0.50	0.87	0.71	0.81	0.85	0.84	1.2	0.92	1.1	0.82
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.8	0.5	0.9	1.0	1.0	1.3	1.0	0.7	0.8
Zinc	U	2455	mg/kg	0.50	5.8	6.0	6.8	7.0	6.2	9.4	7.2	7.1	6.8
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	3.6	3.5	4.3	1.6	2.3	6.5	2.6	2.2	0.63
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503247	1503248	1503249	1503250	1503251	1503252	1503253	1503254	1503255
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C4/TP01	C4/TP05	C4/TP02	C3/TP03	C3/TP04	B3/TP03	B3/TP04	B3/TP05	B3/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.68	0.44	0.50	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32	0.35	0.37	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.25	0.33	0.27	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.20	0.40	0.27	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.9	2.6	2.4	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.42	0.63	0.71	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	0.29	< 0.10	< 0.10	4.7	5.2	5.4	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	0.43	< 0.10	< 0.10	4.9	5.1	5.3	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	0.27	< 0.10	< 0.10	2.8	2.9	3.2	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	0.22	< 0.10	< 0.10	3.2	3.0	2.9	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	3.6	4.5	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.6	1.1	1.9	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9	3.3	3.8	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.7	2.2	2.5	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.77	0.52	0.55	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.4	2.6	2.8	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	36	34	37	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	U	2760	µg/kg	1.0									
Vinyl Chloride	U	2760	µg/kg	1.0									
Bromomethane	U	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	U	2760	µg/kg	1.0									
1,1-Dichloroethene	U	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0									
1,1-Dichloroethane	U	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	U	2760	µg/kg	1.0									
1,1,1-Trichloroethane	U	2760	µg/kg	1.0									
Tetrachloromethane	U	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503247	1503248	1503249	1503250	1503251	1503252	1503253	1503254	1503255
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				C4/TP01	C4/TP05	C4/TP02	C3/TP03	C3/TP04	B3/TP03	B3/TP04	B3/TP05	B3/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	U	2760	µg/kg	1.0									
Dibromomethane	U	2760	µg/kg	1.0									
Bromodichloromethane	U	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	U	2760	µg/kg	10									
Tetrachloroethene	U	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	U	2760	µg/kg	5.0									
Chlorobenzene	U	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0									
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	U	2760	µg/kg	1.0									
Bromobenzene	U	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	U	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	U	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	U	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	U	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0									
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503256	1503257	1503258	1503259	1503260	1503261	1503262	1503263	1503264
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				B2/TP04	B2/TP05	B2/TP02	B2/TP01	B2/TP03	WS110	B3/TP02	C3/TP05	C3/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	20	14	17	18	19	18	19	18
Soil Colour	N	2040		N/A	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	U	2010		4.0	9.3	9.2	8.9	9.1	8.9	9.3	9.0	9.2	8.6
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	0.41	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	0.048	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.61	0.84	61	0.92	0.74	37	1.8	1.1	1.3
Arsenic	U	2455	mg/kg	0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	0.6	1.0	3.4	1.3	0.5	< 0.5	< 0.5	0.5	1.3
Copper	U	2455	mg/kg	0.50	1.8	2.1	3.5	1.4	1.0	0.80	0.92	0.99	1.8
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	0.87	1.4	1.5	0.97	0.57	0.70	0.59	0.79	1.3
Lead	U	2455	mg/kg	0.50	1.2	1.3	11	0.98	0.79	0.58	0.95	0.63	1.1
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	0.7	1.5	6.5	0.9	< 0.5	0.5	< 0.5	0.7	0.8
Zinc	U	2455	mg/kg	0.50	8.0	9.5	16	5.5	5.2	3.6	5.1	4.7	8.4
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	2.9	3.5	1.5	0.52	0.90	3.7	0.64	1.4	0.64
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503256	1503257	1503258	1503259	1503260	1503261	1503262	1503263	1503264
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				B2/TP04	B2/TP05	B2/TP02	B2/TP01	B2/TP03	WS110	B3/TP02	C3/TP05	C3/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	1.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	1.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0									
Chloromethane	U	2760	µg/kg	1.0									
Vinyl Chloride	U	2760	µg/kg	1.0									
Bromomethane	U	2760	µg/kg	20									
Chloroethane	U	2760	µg/kg	2.0									
Trichlorofluoromethane	U	2760	µg/kg	1.0									
1,1-Dichloroethene	U	2760	µg/kg	1.0									
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0									
1,1-Dichloroethane	U	2760	µg/kg	1.0									
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0									
Bromochloromethane	U	2760	µg/kg	5.0									
Trichloromethane	U	2760	µg/kg	1.0									
1,1,1-Trichloroethane	U	2760	µg/kg	1.0									
Tetrachloromethane	U	2760	µg/kg	1.0									
1,1-Dichloropropene	U	2760	µg/kg	1.0									
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0									
Trichloroethene	N	2760	µg/kg	1.0									

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503256	1503257	1503258	1503259	1503260	1503261	1503262	1503263	1503264
	Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1
	Sample Location:				B2/TP04	B2/TP05	B2/TP02	B2/TP01	B2/TP03	WS110	B3/TP02	C3/TP05	C3/TP02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloropropane	U	2760	µg/kg	1.0									
Dibromomethane	U	2760	µg/kg	1.0									
Bromodichloromethane	U	2760	µg/kg	5.0									
cis-1,3-Dichloropropene	N	2760	µg/kg	10									
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10									
1,1,2-Trichloroethane	U	2760	µg/kg	10									
Tetrachloroethene	U	2760	µg/kg	1.0									
1,3-Dichloropropane	U	2760	µg/kg	2.0									
Dibromochloromethane	U	2760	µg/kg	10									
1,2-Dibromoethane	U	2760	µg/kg	5.0									
Chlorobenzene	U	2760	µg/kg	1.0									
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0									
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0									
Tribromomethane	U	2760	µg/kg	1.0									
Isopropylbenzene	U	2760	µg/kg	1.0									
Bromobenzene	U	2760	µg/kg	1.0									
1,2,3-Trichloropropane	N	2760	µg/kg	50									
N-Propylbenzene	U	2760	µg/kg	1.0									
2-Chlorotoluene	U	2760	µg/kg	1.0									
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0									
4-Chlorotoluene	U	2760	µg/kg	1.0									
Tert-Butylbenzene	U	2760	µg/kg	1.0									
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0									
Sec-Butylbenzene	U	2760	µg/kg	1.0									
1,3-Dichlorobenzene	U	2760	µg/kg	1.0									
4-Isopropyltoluene	U	2760	µg/kg	1.0									
1,4-Dichlorobenzene	U	2760	µg/kg	1.0									
N-Butylbenzene	U	2760	µg/kg	1.0									
1,2-Dichlorobenzene	U	2760	µg/kg	1.0									
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50									
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0									
Hexachlorobutadiene	U	2760	µg/kg	1.0									
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0									
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0									
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503265	1503266
	Client Sample ID.:				Val 1	Val 1
	Sample Location:				C2/TP03	C2/TP02
	Sample Type:				SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	16	15
Soil Colour	N	2040		N/A	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand
pH	U	2010		4.0	9.2	8.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	0.040
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.73	5.9
Arsenic	U	2455	mg/kg	0.5	< 0.5	5.1
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	1.1	1.8
Copper	U	2455	mg/kg	0.50	1.9	1.9
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	1.3	2.1
Lead	U	2455	mg/kg	0.50	1.1	1.4
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	1.0	2.6
Zinc	U	2455	mg/kg	0.50	8.6	14
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	1.7	0.52
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503265	1503266
	Client Sample ID.:				Val 1	Val 1
	Sample Location:				C2/TP03	C2/TP02
	Sample Type:				SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0		
Chloromethane	U	2760	µg/kg	1.0		
Vinyl Chloride	U	2760	µg/kg	1.0		
Bromomethane	U	2760	µg/kg	20		
Chloroethane	U	2760	µg/kg	2.0		
Trichlorofluoromethane	U	2760	µg/kg	1.0		
1,1-Dichloroethene	U	2760	µg/kg	1.0		
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0		
1,1-Dichloroethane	U	2760	µg/kg	1.0		
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0		
Bromochloromethane	U	2760	µg/kg	5.0		
Trichloromethane	U	2760	µg/kg	1.0		
1,1,1-Trichloroethane	U	2760	µg/kg	1.0		
Tetrachloromethane	U	2760	µg/kg	1.0		
1,1-Dichloropropene	U	2760	µg/kg	1.0		
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0		
Trichloroethene	N	2760	µg/kg	1.0		

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-34478	22-34478
Quotation No.:	Chemtest Sample ID.:				1503265	1503266
	Client Sample ID.:				Val 1	Val 1
	Sample Location:				C2/TP03	C2/TP02
	Sample Type:				SOIL	SOIL
	Date Sampled:				07-Sep-2022	07-Sep-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD		
1,2-Dichloropropane	U	2760	µg/kg	1.0		
Dibromomethane	U	2760	µg/kg	1.0		
Bromodichloromethane	U	2760	µg/kg	5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10		
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		
1,1,2-Trichloroethane	U	2760	µg/kg	10		
Tetrachloroethene	U	2760	µg/kg	1.0		
1,3-Dichloropropane	U	2760	µg/kg	2.0		
Dibromochloromethane	U	2760	µg/kg	10		
1,2-Dibromoethane	U	2760	µg/kg	5.0		
Chlorobenzene	U	2760	µg/kg	1.0		
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0		
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0		
Tribromomethane	U	2760	µg/kg	1.0		
Isopropylbenzene	U	2760	µg/kg	1.0		
Bromobenzene	U	2760	µg/kg	1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50		
N-Propylbenzene	U	2760	µg/kg	1.0		
2-Chlorotoluene	U	2760	µg/kg	1.0		
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0		
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0		
1,3-Dichlorobenzene	U	2760	µg/kg	1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0		
1,4-Dichlorobenzene	U	2760	µg/kg	1.0		
N-Butylbenzene	U	2760	µg/kg	1.0		
1,2-Dichlorobenzene	U	2760	µg/kg	1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0		
Total Phenols	U	2920	mg/kg	0.10	< 0.10	0.18

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Amended Report

Report No.:	22-38499-3		
Initial Date of Issue:	17-Oct-2022	Date of Re-Issue:	24-Oct-2022
Client	AA Environmental Ltd		
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX		
Contact(s):	Reporting		
Project	223159 Saunderton		
Quotation No.:		Date Received:	10-Oct-2022
Order No.:	223159	Date Instructed:	10-Oct-2022
No. of Samples:	2		
Turnaround (Wkdays):	4	Results Due:	25-Oct-2022
Date Approved:	21-Oct-2022		
Approved By:			

Details: Stuart Henderson, Technical Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-38499	22-38499
Quotation No.:	Chemtest Sample ID.:				1521285	1521286
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1
	Sample Location:				E3/TP04	E3/TP03
	Sample Type:				SOIL	SOIL
	Date Sampled:				05-Oct-2022	05-Oct-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	18
Soil Colour	N	2040		N/A	Beige	Beige
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Chalk	Chalk
pH	M	2010		4.0	9.3	9.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	0.97	0.89
Arsenic	M	2455	mg/kg	0.5	8.3	1.2
Cadmium	M	2455	mg/kg	0.10	0.20	0.21
Chromium	M	2455	mg/kg	0.5	9.9	3.6
Copper	M	2455	mg/kg	0.50	10	9.2
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	18	3.4
Lead	M	2455	mg/kg	0.50	7.2	7.8
Selenium	M	2455	mg/kg	0.25	0.77	< 0.25
Vanadium	U	2455	mg/kg	0.5	16	5.3
Zinc	M	2455	mg/kg	0.50	37	22
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	< 0.20	0.44
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-38499	22-38499
Quotation No.:	Chemtest Sample ID.:				1521285	1521286
Order No.: 223159	Client Sample Ref.:				VAL 1	VAL 1
	Sample Location:				E3/TP04	E3/TP03
	Sample Type:				SOIL	SOIL
	Date Sampled:				05-Oct-2022	05-Oct-2022
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Jack Taylor
AA Environmental Ltd
4-8 Cholswell Court
Shippon
Abingdon
Oxford
OX13 6HX

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-08610

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Sample Receipt Date: 17/10/2022

Sample Scheduled Date: 17/10/2022

Report Issue Number: 1

Reporting Date: 20/10/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2 / TP01	F2 / TP02	F2 / TP03	F3 / TP01	F3 / TP02
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616644	616645	616646	616647	616648

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	9.0	9.0	9.1	9.1	8.7
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	23	15	14	12	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	0.02	0.01	0.01	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.5	0.3	0.3	0.7	0.2
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	13	12	9	8	8
Lead (Pb)	mg/kg	< 3	ISO17025	3	8	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	2	2	1	3
Zinc (Zn)	mg/kg	< 3	ISO17025	11	12	10	9	10
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F3 / TP03	F4 / TP01	F4 / TP02	F4 / TP03	F5 / TP01
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616649	616650	616651	616652	616653

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.5	8.5	8.5	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.3	0.3	0.2	0.2	0.5
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	9	7	8	8	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	2	2	2	3	2
Zinc (Zn)	mg/kg	< 3	ISO17025	11	8	8	9	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F5 / TP02	E3 / TP03	E3 / TP04	E3 / TP05	E4 / TP04
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616654	616655	616656	616657	616658

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.6	8.7	8.7	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	13	10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	0.01	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.4	0.6	0.5	0.2	0.7
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	3	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	4	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	15	10	8	9
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	4	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	10	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	7	2	1	2
Zinc (Zn)	mg/kg	< 3	ISO17025	7	22	13	9	11
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4 / TP05	E5 / TP03			
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 20/10/2022	DETS Sample No	616659	616660			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
pH	pH Units	N/a	ISO17025	8.6	8.6			
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01			
Sulphide	mg/kg	< 5	NONE	< 5	< 5			
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.3	0.2			
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2			
W/S Boron	mg/kg	< 1	NONE	< 1	< 1			
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	0.2	< 0.2			
Chromium (Cr)	mg/kg	< 2	ISO17025	2	< 2			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2			
Copper (Cu)	mg/kg	< 4	ISO17025	12	9			
Lead (Pb)	mg/kg	< 3	ISO17025	3	< 3			
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1			
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3			
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3			
Vanadium (V)	mg/kg	< 1	ISO17025	3	2			
Zinc (Zn)	mg/kg	< 3	ISO17025	17	11			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2 / TP01	F2 / TP02	F2 / TP03	F3 / TP01	F3 / TP02
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616644	616645	616646	616647	616648

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F3 / TP03	F4 / TP01	F4 / TP02	F4 / TP03	F5 / TP01
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616649	616650	616651	616652	616653

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F5 / TP02	E3 / TP03	E3 / TP04	E3 / TP05	E4 / TP04
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616654	616655	616656	616657	616658

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4 / TP05	E5 / TP03			
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 20/10/2022	DETS Sample No	616659	616660			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6			



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2 / TP01	F2 / TP02	F2 / TP03	F3 / TP01	F3 / TP02
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616644	616645	616646	616647	616648

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F3 / TP03	F4 / TP01	F4 / TP02	F4 / TP03	F5 / TP01
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616649	616650	616651	616652	616653

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F5 / TP02	E3 / TP03	E3 / TP04	E3 / TP05	E4 / TP04
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616654	616655	616656	616657	616658

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4 / TP05	E5 / TP03			
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 20/10/2022	DETS Sample No	616659	616660			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3			
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3			
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10			
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3			
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10			
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21			
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42			



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2 / TP01	F2 / TP02	F2 / TP03	F3 / TP01	F3 / TP02
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616644	616645	616646	616647	616648

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F3 / TP03	F4 / TP01	F4 / TP02	F4 / TP03	F5 / TP01
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616649	616650	616651	616652	616653

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22	13/10/22	13/10/22	13/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F5 / TP02	E3 / TP03	E3 / TP04	E3 / TP05	E4 / TP04
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1	Val 1	Val 1	Val 1
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 20/10/2022	DETS Sample No	616654	616655	616656	616657	616658

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08610	Date Sampled	13/10/22	13/10/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4 / TP05	E5 / TP03			
Project / Job Ref: 223159	Additional Refs	Val 1	Val 1			
Order No: None Supplied	Depth (m)	None Supplied	None Supplied			
Reporting Date: 20/10/2022	DETS Sample No	616659	616660			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Benzene	ug/kg	< 2	ISO17025	< 2	< 2			
Toluene	ug/kg	< 5	ISO17025	< 5	< 5			
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2			
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2			
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2			
MTBE	ug/kg	< 5	ISO17025	< 5	< 5			



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-08610
AA Environmental Ltd
Site Reference: Saunderton
Project / Job Ref: 223159
Order No: None Supplied
Reporting Date: 20/10/2022

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
616644	F2 / TP01	Val 1	None Supplied	19.7	White chalk
616645	F2 / TP02	Val 1	None Supplied	18.4	White chalk
616646	F2 / TP03	Val 1	None Supplied	17.6	White chalk
616647	F3 / TP01	Val 1	None Supplied	14.7	White chalk
616648	F3 / TP02	Val 1	None Supplied	12.7	White chalk
616649	F3 / TP03	Val 1	None Supplied	14.5	White chalk
616650	F4 / TP01	Val 1	None Supplied	15.5	White chalk
616651	F4 / TP02	Val 1	None Supplied	17.1	White chalk
616652	F4 / TP03	Val 1	None Supplied	18.8	White chalk
616653	F5 / TP01	Val 1	None Supplied	15.5	White chalk
616654	F5 / TP02	Val 1	None Supplied	17.2	White chalk
616655	E3 / TP03	Val 1	None Supplied	18.4	White chalk
616656	E3 / TP04	Val 1	None Supplied	18.3	White chalk
616657	E3 / TP05	Val 1	None Supplied	18.8	White chalk
616658	E4 / TP04	Val 1	None Supplied	16.3	White chalk
616659	E4 / TP05	Val 1	None Supplied	14.4	White chalk
616660	E5 / TP03	Val 1	None Supplied	15.5	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

Unsuitable Sample ^{u/s}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-08610

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Reporting Date: 20/10/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Jack Taylor
AA Environmental Ltd
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OX13 6HX

Derwentside Environmental Testing Services Ltd
Unit 1
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Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-09160

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 02/11/2022

Sample Scheduled Date: 02/11/2022

Report Issue Number: 2

Reporting Date: 15/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.
This report supersedes 22-09160, issue no.1.
Reason for re-issue: sample ID amended as per the client request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate						
DETS Report No: 22-09160	Date Sampled	31/10/22	31/10/22	31/10/22	31/10/22	31/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2/TP02	F2/TP03	F3/TP01	F3/TP02	F3/TP03
Project / Job Ref: 223159	Additional Refs	VAL2	VAL2	VAL2	VAL2	VAL2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 15/11/2022	DETS Sample No	618868	618869	618870	618871	618872

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.8	8.7	8.7	8.7
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.5	< 0.1	0.1	0.4	0.2
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	9	8	8	8	9
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	2	1	1	1
Zinc (Zn)	mg/kg	< 3	ISO17025	11	10	9	9	11
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-09160	Date Sampled	31/10/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	E3/TP04				
Project / Job Ref: 223159	Additional Refs	VAL2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 15/11/2022	DETS Sample No	618873				

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected				
pH	pH Units	N/a	ISO17025	8.6				
Total Cyanide	mg/kg	< 2	NONE	< 2				
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10				
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01				
Sulphide	mg/kg	< 5	NONE	< 5				
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.3				
Arsenic (As)	mg/kg	< 2	ISO17025	< 2				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2				
Chromium (Cr)	mg/kg	< 2	ISO17025	2				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	ISO17025	8				
Lead (Pb)	mg/kg	< 3	ISO17025	< 3				
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1				
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3				
Selenium (Se)	mg/kg	< 2	ISO17025	< 3				
Vanadium (V)	mg/kg	< 1	ISO17025	4				
Zinc (Zn)	mg/kg	< 3	ISO17025	10				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09160	Date Sampled	31/10/22	31/10/22	31/10/22	31/10/22	31/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2/TP02	F2/TP03	F3/TP01	F3/TP02	F3/TP03
Project / Job Ref: 223159	Additional Refs	VAL2	VAL2	VAL2	VAL2	VAL2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 15/11/2022	DETS Sample No	618868	618869	618870	618871	618872

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09160	Date Sampled	31/10/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	E3/TP04				
Project / Job Ref: 223159	Additional Refs	VAL2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 15/11/2022	DETS Sample No	618873				

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1				
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1				
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1				
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6				



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09160	Date Sampled	31/10/22	31/10/22	31/10/22	31/10/22	31/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2/TP02	F2/TP03	F3/TP01	F3/TP02	F3/TP03
Project / Job Ref: 223159	Additional Refs	VAL2	VAL2	VAL2	VAL2	VAL2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 15/11/2022	DETS Sample No	618868	618869	618870	618871	618872

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09160	Date Sampled	31/10/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	E3/TP04				
Project / Job Ref: 223159	Additional Refs	VAL2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 15/11/2022	DETS Sample No	618873				

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01				
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10				
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21				
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01				
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2				
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10				
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21				
Total >C5 - C35	mg/kg	< 42	NONE	< 42				



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09160	Date Sampled	31/10/22	31/10/22	31/10/22	31/10/22	31/10/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F2/TP02	F2/TP03	F3/TP01	F3/TP02	F3/TP03
Project / Job Ref: 223159	Additional Refs	VAL2	VAL2	VAL2	VAL2	VAL2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 15/11/2022	DETS Sample No	618868	618869	618870	618871	618872

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09160	Date Sampled	31/10/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	E3/TP04				
Project / Job Ref: 223159	Additional Refs	VAL2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 15/11/2022	DETS Sample No	618873				

Determinand	Unit	RL	Accreditation	(n)				
Benzene	ug/kg	< 2	ISO17025	< 2				
Toluene	ug/kg	< 5	ISO17025	< 5				
Ethylbenzene	ug/kg	< 2	ISO17025	< 2				
p & m-xylene	ug/kg	< 2	ISO17025	< 2				
o-xylene	ug/kg	< 2	ISO17025	< 2				
MTBE	ug/kg	< 5	ISO17025	< 5				



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09160	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: 223159	
Reporting Date: 15/11/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
618868	F2/TP02	VAL2	None Supplied	18.5	White chalk
618869	F2/TP03	VAL2	None Supplied	18.4	White chalk
618870	F3/TP01	VAL2	None Supplied	16	White chalk
618871	F3/TP02	VAL2	None Supplied	16.7	White chalk
618872	F3/TP03	VAL2	None Supplied	18.1	White chalk
618873	E3/TP04	VAL2	None Supplied	15.5	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09160

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 15/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Jack Taylor
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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 22-09162

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 02/11/2022

Sample Scheduled Date: 02/11/2022

Report Issue Number: 1

Reporting Date: 08/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP05	E4/TP01	E4/TP02	E4/TP03	E4/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618879	618880	618881	618882	618883

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.7	8.5	8.6	8.9	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	14	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.1	0.1	0.1	0.2	0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	9	10	9	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	2	2	2	< 1
Zinc (Zn)	mg/kg	< 3	ISO17025	9	11	15	10	9
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D3/TP05	D6/TP03	E6/TP02	E6/TP05	E6/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618884	618885	618886	618887	618888

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.6	8.6	8.6	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.3	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	9	8	8	11	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	4	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	4	1	1	2	1
Zinc (Zn)	mg/kg	< 3	ISO17025	10	8	9	15	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D6/TP05	D6/TP02	E6/TP01	E6/TP03	D5/TP03
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618889	618890	618891	618892	618893

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.7	9.0	8.7	8.7
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	13	< 10	36
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	0.01	< 0.01	0.04
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.3	< 0.1	0.1	0.3	0.2
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	8	8	9	9	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	1	2	2	1
Zinc (Zn)	mg/kg	< 3	ISO17025	8	8	10	10	9
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	D5/TP05	E5/TP02	E5/TP04	E5/TP05	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 08/11/2022	DETS Sample No	618894	618895	618896	618897	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.8	8.7	8.7
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	11	10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	0.01	0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.2	0.1	0.1	< 0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	8	9	8	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	1	1	1
Zinc (Zn)	mg/kg	< 3	ISO17025	8	9	9	9
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP05	E4/TP01	E4/TP02	E4/TP03	E4/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618879	618880	618881	618882	618883

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D3/TP05	D6/TP03	E6/TP02	E6/TP05	E6/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618884	618885	618886	618887	618888

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D6/TP05	D6/TP02	E6/TP01	E6/TP03	D5/TP03
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618889	618890	618891	618892	618893

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	D5/TP05	E5/TP02	E5/TP04	E5/TP05	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 08/11/2022	DETS Sample No	618894	618895	618896	618897	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP05	E4/TP01	E4/TP02	E4/TP03	E4/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618879	618880	618881	618882	618883

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D3/TP05	D6/TP03	E6/TP02	E6/TP05	E6/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618884	618885	618886	618887	618888

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D6/TP05	D6/TP02	E6/TP01	E6/TP03	D5/TP03
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618889	618890	618891	618892	618893

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	15	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D5/TP05	E5/TP02	E5/TP04	E5/TP05
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618894	618895	618896	618897

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP05	E4/TP01	E4/TP02	E4/TP03	E4/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618879	618880	618881	618882	618883

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D3/TP05	D6/TP03	E6/TP02	E6/TP05	E6/TP04
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618884	618885	618886	618887	618888

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D6/TP05	D6/TP02	E6/TP01	E6/TP03	D5/TP03
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 08/11/2022	DETS Sample No	618889	618890	618891	618892	618893

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09162	Date Sampled	01/11/22	01/11/22	01/11/22	01/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	D5/TP05	E5/TP02	E5/TP04	E5/TP05	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 08/11/2022	DETS Sample No	618894	618895	618896	618897	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09162

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 08/11/2022

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
618879	E3/TP05	VAL-2	None Supplied	13.3	White chalk
618880	E4/TP01	VAL-2	None Supplied	14.9	White chalk
618881	E4/TP02	VAL-2	None Supplied	16.3	White chalk
618882	E4/TP03	VAL-2	None Supplied	18.7	White chalk
618883	E4/TP04	VAL-2	None Supplied	19.6	White chalk
618884	D3/TP05	VAL-2	None Supplied	12.7	White chalk
618885	D6/TP03	VAL-2	None Supplied	12.6	White chalk
618886	E6/TP02	VAL-2	None Supplied	13.8	White chalk
618887	E6/TP05	VAL-2	None Supplied	9.2	White chalk
618888	E6/TP04	VAL-2	None Supplied	13.7	White chalk
618889	D6/TP05	VAL-2	None Supplied	13	White chalk
618890	D6/TP02	VAL-2	None Supplied	11.5	White chalk
618891	E6/TP01	VAL-2	None Supplied	12.1	White chalk
618892	E6/TP03	VAL-2	None Supplied	12.1	White chalk
618893	D5/TP03	VAL-2	None Supplied	20.4	White chalk
618894	D5/TP05	VAL-2	None Supplied	16.3	White chalk
618895	E5/TP02	VAL-2	None Supplied	21.4	White chalk
618896	E5/TP04	VAL-2	None Supplied	23.4	White chalk
618897	E5/TP05	VAL-2	None Supplied	24	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09162

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 08/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Jack Taylor
AA Environmental Ltd
4-8 Cholswell Court
Shippon
Abingdon
Oxford
OX13 6HX

Derwentside Environmental Testing Services Ltd
Unit 1
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Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-09200

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Sample Receipt Date: 04/11/2022

Sample Scheduled Date: 04/11/2022

Report Issue Number: 1

Reporting Date: 09/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 22-09200	Date Sampled	02/11/22	02/11/22	02/11/22	02/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	A6/TP01	A5/TP04	A5/TP01	A4/TP01	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 09/11/2022	DETS Sample No	619053 ^B	619054 ^B	619055 ^B	619056 ^B	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.0	8.1	8.1	8.1
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	14
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.4	< 0.1	< 0.1	< 0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	7	8	7
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	2	2	3	1
Zinc (Zn)	mg/kg	< 3	ISO17025	7	7	9	7
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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

B - No Sampling Time Provided



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09200	Date Sampled	02/11/22	02/11/22	02/11/22	02/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	A6/TP01	A5/TP04	A5/TP01	A4/TP01	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 09/11/2022	DETS Sample No	619053 ^B	619054 ^B	619055 ^B	619056 ^B	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6

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

B - No Sampling Time Provided



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09200	Date Sampled	02/11/22	02/11/22	02/11/22	02/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A6/TP01	A5/TP04	A5/TP01	A4/TP01
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 09/11/2022	DETS Sample No	619053 ^B	619054 ^B	619055 ^B	619056 ^B

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42

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B - No Sampling Time Provided



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09200	Date Sampled	02/11/22	02/11/22	02/11/22	02/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	A6/TP01	A5/TP04	A5/TP01	A4/TP01	
Project / Job Ref: 223159	Additional Refs	VAL-2	VAL-2	VAL-2	VAL-2	
Order No: None Supplied	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 09/11/2022	DETS Sample No	619053 ^B	619054 ^B	619055 ^B	619056 ^B	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5

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B - No Sampling Time Provided



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4480

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 22-09200	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: None Supplied	
Reporting Date: 09/11/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
619053	A6/TP01	VAL-2	None Supplied	22.1	White chalk
619054	A5/TP04	VAL-2	None Supplied	20	White chalk
619055	A5/TP01	VAL-2	None Supplied	20.7	White chalk
619056	A4/TP01	VAL-2	None Supplied	19.7	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09200

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Reporting Date: 09/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Jack Taylor
AA Environmental Ltd
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Shippon
Abingdon
Oxford
OX13 6HX

Derwentside Environmental Testing Services Ltd
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Kent
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t: 01622 850410

DETS Report No: 22-09346

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 09/11/2022

Sample Scheduled Date: 09/11/2022

Report Issue Number: 1

Reporting Date: 11/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F4/TP01	F4/TP02	F4/TP03	F5/TP01	F5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619568	619569	619570	619571	619573

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	7.7	8.6	8.6	8.6	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	131	78	60	37	32
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	0.13	0.08	0.06	0.04	0.03
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.4	0.2	< 0.1	0.2	< 0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	10	9	8	12	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	2	1	1	1	2
Zinc (Zn)	mg/kg	< 3	ISO17025	11	9	11	9	11
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	F6/TP01	F6/TP02	F6/TP03	WS110	
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 11/11/2022	DETS Sample No	619574	619575	619576	619577	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.6	8.8	8.5	8.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.6	< 0.1	0.4	0.5
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	7	7	7
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	1	< 1	2
Zinc (Zn)	mg/kg	< 3	ISO17025	9	8	8	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F4/TP01	F4/TP02	F4/TP03	F5/TP01	F5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619568	619569	619570	619571	619573

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	F6/TP01	F6/TP02	F6/TP03	WS110	
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 11/11/2022	DETS Sample No	619574	619575	619576	619577	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F4/TP01	F4/TP02	F4/TP03	F5/TP01	F5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619568	619569	619570	619571	619573

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F6/TP01	F6/TP02	F6/TP03	WS110
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619574	619575	619576	619577

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	F4/TP01	F4/TP02	F4/TP03	F5/TP01	F5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619568	619569	619570	619571	619573

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	3	3	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09346	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Saunderton	TP / BH No	F6/TP01	F6/TP02	F6/TP03	WS110	
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 11/11/2022	DETS Sample No	619574	619575	619576	619577	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	3	3
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09346

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 11/11/2022

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
619568	F4/TP01	VAL 2	None Supplied	14.1	White chalk
619569	F4/TP02	VAL 2	None Supplied	14.5	White chalk
619570	F4/TP03	VAL 2	None Supplied	11.6	White chalk
619571	F5/TP01	VAL 2	None Supplied	11.2	White chalk
619573	F5/TP03	VAL 2	None Supplied	10.9	White chalk
619574	F6/TP01	VAL 2	None Supplied	10.8	White chalk
619575	F6/TP02	VAL 2	None Supplied	8.1	White chalk
619576	F6/TP03	VAL 2	None Supplied	17.1	White chalk
619577	WS110	VAL 2	None Supplied	14.1	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09346

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 11/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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Derwentside Environmental Testing Services Ltd
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DETS Report No: 22-09347

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 09/11/2022

Sample Scheduled Date: 09/11/2022

Report Issue Number: 1

Reporting Date: 11/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP02	D3/TP03	D4/TP02	D4/TP05	D4/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619578	619579	619580	619581	619582

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.5	8.5	8.5	8.5	8.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.2	0.4	0.1	< 0.1	0.4
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	8	8	8	7
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	3	2	2	1
Zinc (Zn)	mg/kg	< 3	ISO17025	8	8	9	9	7
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D5/TP02	Fuel tank	E5/TP01	TP321A	E5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619583	619584	619585	619586	619587

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.5	8.5	8.5	8.5	8.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	24	17	< 10	13	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	0.02	0.02	< 0.01	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	< 0.1	< 0.1	0.5	0.2	0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	9	7	8	8	8
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	1	1	1	2	< 1
Zinc (Zn)	mg/kg	< 3	ISO17025	8	7	9	9	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4/TP05	C3/TP05			
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2			
Order No: 223159	Depth (m)	None Supplied	None Supplied			
Reporting Date: 11/11/2022	DETS Sample No	619588	619589			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
pH	pH Units	N/a	ISO17025	8.5	9.0			
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	11			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	0.01			
Sulphide	mg/kg	< 5	NONE	< 5	< 5			
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	< 0.1	0.2			
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2			
W/S Boron	mg/kg	< 1	NONE	< 1	< 1			
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2			
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2			
Copper (Cu)	mg/kg	< 4	ISO17025	8	8			
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3			
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1			
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3			
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3			
Vanadium (V)	mg/kg	< 1	ISO17025	< 1	2			
Zinc (Zn)	mg/kg	< 3	ISO17025	8	9			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP02	D3/TP03	D4/TP02	D4/TP05	D4/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619578	619579	619580	619581	619582

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D5/TP02	Fuel tank	E5/TP01	TP321A	E5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619583	619584	619585	619586	619587

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4/TP05	C3/TP05			
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2			
Order No: 223159	Depth (m)	None Supplied	None Supplied			
Reporting Date: 11/11/2022	DETS Sample No	619588	619589			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6			



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP02	D3/TP03	D4/TP02	D4/TP05	D4/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619578	619579	619580	619581	619582

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D5/TP02	Fuel tank	E5/TP01	TP321A	E5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619583	619584	619585	619586	619587

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4/TP05	C3/TP05			
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2			
Order No: 223159	Depth (m)	None Supplied	None Supplied			
Reporting Date: 11/11/2022	DETS Sample No	619588	619589			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3			
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3			
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10			
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2			
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3			
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10			
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21			
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42			



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	E3/TP02	D3/TP03	D4/TP02	D4/TP05	D4/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619578	619579	619580	619581	619582

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	3	3	3	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	D5/TP02	Fuel tank	E5/TP01	TP321A	E5/TP03
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619583	619584	619585	619586	619587

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	3	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09347	Date Sampled	08/11/22	08/11/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	E4/TP05	C3/TP05			
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2			
Order No: 223159	Depth (m)	None Supplied	None Supplied			
Reporting Date: 11/11/2022	DETS Sample No	619588	619589			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Benzene	ug/kg	< 2	ISO17025	3	< 2			
Toluene	ug/kg	< 5	ISO17025	< 5	< 5			
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2			
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2			
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2			
MTBE	ug/kg	< 5	ISO17025	< 5	< 5			



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09347
AA Environmental Ltd
Site Reference: Saunderton
Project / Job Ref: 223159
Order No: 223159
Reporting Date: 11/11/2022

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
619578	E3/TP02	VAL 2	None Supplied	18.2	White chalk
619579	D3/TP03	VAL 2	None Supplied	18.2	White chalk
619580	D4/TP02	VAL 2	None Supplied	19.4	White chalk
619581	D4/TP05	VAL 2	None Supplied	19.6	White chalk
619582	D4/TP03	VAL 2	None Supplied	18.5	White chalk
619583	D5/TP02	VAL 2	None Supplied	20.5	White chalk
619584	Fuel tank	VAL 2	None Supplied	19.9	White chalk
619585	E5/TP01	VAL 2	None Supplied	20.6	White chalk
619586	TP321A	VAL 2	None Supplied	21.1	White chalk
619587	E5/TP03	VAL 2	None Supplied	18.9	White chalk
619588	E4/TP05	VAL 2	None Supplied	18.5	White chalk
619589	C3/TP05	VAL 2	None Supplied	17.4	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09347

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 11/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 22-09348

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 09/11/2022

Sample Scheduled Date: 09/11/2022

Report Issue Number: 1

Reporting Date: 14/11/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A2/TP01	A2/TP01	A2/TP02	A2/TP03	A2/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	ACM - 1	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619590	619591	619592	619593	619594

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.4	9.0	8.4
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	86	44	17
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.09	0.04	0.02
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	0.8	0.8	0.7
Arsenic (As)	mg/kg	< 2	MCERTS	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	4	2	2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	12	9	7
Lead (Pb)	mg/kg	< 3	MCERTS	10	< 3	< 3
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	3	< 3	< 3
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	5	4	1
Zinc (Zn)	mg/kg	< 3	MCERTS	30	14	9
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A2/TP05	A3/TP01	A3/TP02	A3/TP03	A3/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619595	619596	619597	619598	619599

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	10.2	8.4	8.5	8.6	8.6
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	84	27	< 10	21	14
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.08	0.03	< 0.01	0.02	0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	0.3	0.5	0.1	0.2	< 0.1
Arsenic (As)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	3	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	9	7	7	8	7
Lead (Pb)	mg/kg	< 3	MCERTS	3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	4	2	< 1	2	< 1
Zinc (Zn)	mg/kg	< 3	MCERTS	25	9	8	10	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22			
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Saunderton	TP / BH No	A3/TP05	A4/TP02			
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2			
Order No: 223159	Depth (m)	None Supplied	None Supplied			
Reporting Date: 14/11/2022	DETS Sample No	619600	619601			

Determinand	Unit	RL	Accreditation	(n)	(n)			
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
pH	pH Units	N/a	MCERTS	8.5	8.4			
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	17	13			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.02	0.01			
Sulphide	mg/kg	< 5	NONE	< 5	< 5			
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	0.2	0.3			
Arsenic (As)	mg/kg	< 2	MCERTS	< 2	< 2			
W/S Boron	mg/kg	< 1	NONE	< 1	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS	< 2	< 2			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	7	8			
Lead (Pb)	mg/kg	< 3	MCERTS	< 3	< 3			
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	< 3	< 3			
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3			
Vanadium (V)	mg/kg	< 1	MCERTS	1	2			
Zinc (Zn)	mg/kg	< 3	MCERTS	9	12			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A2/TP01	A2/TP02	A2/TP03	A2/TP04	A2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619590	619592	619593	619594	619595

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.21
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.25
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.22
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.12
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A3/TP01	A3/TP02	A3/TP03	A3/TP04	A3/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619596	619597	619598	619599	619600

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.17	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.15	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09348	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	A4/TP02				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 14/11/2022	DETS Sample No	619601				

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1				
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1				
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1				
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1				
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1				
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6				



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A2/TP01	A2/TP02	A2/TP03	A2/TP04	A2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619590	619592	619593	619594	619595

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A3/TP01	A3/TP02	A3/TP03	A3/TP04	A3/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619596	619597	619598	619599	619600

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09348	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	A4/TP02				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 14/11/2022	DETS Sample No	619601				

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01				
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2				
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2				
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3				
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3				
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10				
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21				
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01				
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2				
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2				
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2				
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3				
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10				
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21				
Total >C5 - C35	mg/kg	< 42	NONE	< 42				



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A2/TP01	A2/TP02	A2/TP03	A2/TP04	A2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619590	619592	619593	619594	619595

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09348	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	A3/TP01	A3/TP02	A3/TP03	A3/TP04	A3/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 14/11/2022	DETS Sample No	619596	619597	619598	619599	619600

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	MCERTS	< 2	3	3	< 2	3
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09348	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	A4/TP02				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 14/11/2022	DETS Sample No	619601				

Determinand	Unit	RL	Accreditation	(n)				
Benzene	ug/kg	< 2	MCERTS	< 2				
Toluene	ug/kg	< 5	MCERTS	< 5				
Ethylbenzene	ug/kg	< 2	MCERTS	< 2				
p & m-xylene	ug/kg	< 2	MCERTS	< 2				
o-xylene	ug/kg	< 2	MCERTS	< 2				
MTBE	ug/kg	< 5	MCERTS	< 5				



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Bulk Analysis Certificate						
DETS Report No: 22-09348	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	A2/TP01				
Project / Job Ref: 223159	Additional Refs	ACM - 1				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 14/11/2022	DETS Sample No	619591				

Determinand	Unit	RL	Accreditation				
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile			
Sample Matrix ^(S)	Material Type	N/a	NONE	Cement			

The samples have been examined to identify the presence of asbestiform minerals by polarising light microscopy and dispersion staining technique to In-House Procedures QTSE600 Determination of Asbestos in Bulk Materials; Asbestos in Soils/Sediments (fibre screening and identification) that is in accordance with the Health and Safety Executive HSG 248 Appendix 2.

This report refers to samples as received, and Dets Ltd, takes no responsibility for the accuracy or competence of sampling by others.

The material description shall be regarded as tentative and is not included in our scope of UKAS Accreditation.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

RL: Reporting Limit

Subcontracted analysis ^(S)



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09348
AA Environmental Ltd
Site Reference: Saunderton
Project / Job Ref: 223159
Order No: 223159
Reporting Date: 14/11/2022

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DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
619590	A2/TP01	VAL 2	None Supplied	19.8	Light brown sandy clay with chalk
619592	A2/TP02	VAL 2	None Supplied	14.7	White chalk
619593	A2/TP03	VAL 2	None Supplied	18.5	White chalk
619594	A2/TP04	VAL 2	None Supplied	18.2	White chalk
619595	A2/TP05	VAL 2	None Supplied	13.1	White chalk
619596	A3/TP01	VAL 2	None Supplied	20.2	White chalk
619597	A3/TP02	VAL 2	None Supplied	13.9	White chalk
619598	A3/TP03	VAL 2	None Supplied	16.4	White chalk
619599	A3/TP04	VAL 2	None Supplied	14.2	White chalk
619600	A3/TP05	VAL 2	None Supplied	18.1	White chalk
619601	A4/TP02	VAL 2	None Supplied	13.6	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-09348	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: 223159	
Reporting Date: 14/11/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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Derwentside Environmental Testing Services Ltd
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Kent
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DETS Report No: 22-09349

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 09/11/2022

Sample Scheduled Date: 09/11/2022

Report Issue Number: 1

Reporting Date: 11/11/2022

Authorised by:

Ela Mysiara
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B2/TP01	B2/TP02	B2/TP03	B2/TP04	B2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619602	619603	619604	619605	619606

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.5	8.5	8.4	8.5	8.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	< 0.1	0.2	0.1	< 0.1	< 0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	7	6	6	7
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	< 1	1	< 1	1	1
Zinc (Zn)	mg/kg	< 3	ISO17025	8	8	7	7	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

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



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Soil Analysis Certificate						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B3/TP01	B3/TP02	C2/TP01	C2/TP05	C2/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619607	619608	619610	619611	619612

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.5	8.5	8.6	8.6	8.5
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	< 0.1	0.1	< 0.1	0.3	0.1
Arsenic (As)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	7	7	7	7	7
Lead (Pb)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Selenium (Se)	mg/kg	< 2	ISO17025	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	ISO17025	2	< 1	1	1	1
Zinc (Zn)	mg/kg	< 3	ISO17025	7	7	8	8	8
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 22-09349	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	C3/TP01				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 11/11/2022	DETS Sample No	619613				

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected				
pH	pH Units	N/a	ISO17025	8.6				
Total Cyanide	mg/kg	< 2	NONE	< 2				
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10				
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01				
Sulphide	mg/kg	< 5	NONE	< 5				
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	< 0.1				
Arsenic (As)	mg/kg	< 2	ISO17025	< 2				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2				
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	ISO17025	7				
Lead (Pb)	mg/kg	< 3	ISO17025	< 3				
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1				
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3				
Selenium (Se)	mg/kg	< 2	ISO17025	< 3				
Vanadium (V)	mg/kg	< 1	ISO17025	1				
Zinc (Zn)	mg/kg	< 3	ISO17025	8				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B2/TP01	B2/TP02	B2/TP03	B2/TP04	B2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619602	619603	619604	619605	619606

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B3/TP01	B3/TP02	C2/TP01	C2/TP05	C2/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619607	619608	619610	619611	619612

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09349	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	C3/TP01				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 11/11/2022	DETS Sample No	619613				

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1				
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1				
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1				
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6				



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B2/TP01	B2/TP02	B2/TP03	B2/TP04	B2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619602	619603	619604	619605	619606

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B3/TP01	B3/TP02	C2/TP01	C2/TP05	C2/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619607	619608	619610	619611	619612

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09349	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	C3/TP01				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 11/11/2022	DETS Sample No	619613				

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01				
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10				
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21				
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01				
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2				
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10				
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21				
Total >C5 - C35	mg/kg	< 42	NONE	< 42				



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B2/TP01	B2/TP02	B2/TP03	B2/TP04	B2/TP05
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619602	619603	619604	619605	619606

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09349	Date Sampled	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Saunderton	TP / BH No	B3/TP01	B3/TP02	C2/TP01	C2/TP05	C2/TP04
Project / Job Ref: 223159	Additional Refs	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
Order No: 223159	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/11/2022	DETS Sample No	619607	619608	619610	619611	619612

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	ISO17025	3	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09349	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	C3/TP01				
Project / Job Ref: 223159	Additional Refs	VAL 2				
Order No: 223159	Depth (m)	None Supplied				
Reporting Date: 11/11/2022	DETS Sample No	619613				

Determinand	Unit	RL	Accreditation	(n)				
Benzene	ug/kg	< 2	ISO17025	< 2				
Toluene	ug/kg	< 5	ISO17025	< 5				
Ethylbenzene	ug/kg	< 2	ISO17025	< 2				
p & m-xylene	ug/kg	< 2	ISO17025	< 2				
o-xylene	ug/kg	< 2	ISO17025	< 2				
MTBE	ug/kg	< 5	ISO17025	< 5				



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4480

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-09349

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 11/11/2022

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
619602	B2/TP01	VAL 2	None Supplied	15	White chalk
619603	B2/TP02	VAL 2	None Supplied	17	White chalk
619604	B2/TP03	VAL 2	None Supplied	18.1	White chalk
619605	B2/TP04	VAL 2	None Supplied	19.6	White chalk
619606	B2/TP05	VAL 2	None Supplied	19	White chalk
619607	B3/TP01	VAL 2	None Supplied	16.9	White chalk
619608	B3/TP02	VAL 2	None Supplied	20.3	White chalk
619610	C2/TP01	VAL 2	None Supplied	20.4	White chalk
619611	C2/TP05	VAL 2	None Supplied	18.1	White chalk
619612	C2/TP04	VAL 2	None Supplied	18.4	White chalk
619613	C3/TP01	VAL 2	None Supplied	16	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09349

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Reporting Date: 11/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



Jack Taylor
AA Environmental Ltd
4-8 Cholswell Court
Shippon
Abingdon
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OX13 6HX

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-09603

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Sample Receipt Date: 09/11/2022

Sample Scheduled Date: 17/11/2022

Report Issue Number: 1

Reporting Date: 23/11/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Soil Analysis Certificate						
DETS Report No: 22-09603	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	B3/TP04				
Project / Job Ref: 223159	Additional Refs	Val 2				
Order No: None Supplied	Depth (m)	None Supplied				
Reporting Date: 23/11/2022	DETS Sample No	620695				

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected				
pH	pH Units	N/a	ISO17025	7.9				
Total Cyanide	mg/kg	< 2	NONE	< 2				
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	< 10				
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	< 0.01				
Sulphide	mg/kg	< 5	NONE	< 5				
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	0.2				
Arsenic (As)	mg/kg	< 2	ISO17025	< 2				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	< 0.2				
Chromium (Cr)	mg/kg	< 2	ISO17025	< 2				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	ISO17025	7				
Lead (Pb)	mg/kg	< 3	ISO17025	< 3				
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1				
Nickel (Ni)	mg/kg	< 3	ISO17025	< 3				
Selenium (Se)	mg/kg	< 2	ISO17025	< 3				
Vanadium (V)	mg/kg	< 1	ISO17025	1				
Zinc (Zn)	mg/kg	< 3	ISO17025	9				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-09603	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	B3/TP04				
Project / Job Ref: 223159	Additional Refs	Val 2				
Order No: None Supplied	Depth (m)	None Supplied				
Reporting Date: 23/11/2022	DETS Sample No	620695				

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1				
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1				
Phenanthrene	mg/kg	< 0.1	ISO17025	< 0.1				
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Chrysene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1				
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1				
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	< 1.6				

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09603	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	B3/TP04				
Project / Job Ref: 223159	Additional Refs	Val 2				
Order No: None Supplied	Depth (m)	None Supplied				
Reporting Date: 23/11/2022	DETS Sample No	620695				

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01				
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aliphatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aliphatic >C12 - C16	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aliphatic >C21 - C34	mg/kg	< 10	ISO17025	< 10				
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21				
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01				
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05				
Aromatic >C8 - C10	mg/kg	< 2	ISO17025	< 2				
Aromatic >C10 - C12	mg/kg	< 2	ISO17025	< 2				
Aromatic >C12 - C16	mg/kg	< 2	ISO17025	< 2				
Aromatic >C16 - C21	mg/kg	< 3	ISO17025	< 3				
Aromatic >C21 - C35	mg/kg	< 10	ISO17025	< 10				
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21				
Total >C5 - C35	mg/kg	< 42	NONE	< 42				

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09603	Date Sampled	08/11/22				
AA Environmental Ltd	Time Sampled	None Supplied				
Site Reference: Saunderton	TP / BH No	B3/TP04				
Project / Job Ref: 223159	Additional Refs	Val 2				
Order No: None Supplied	Depth (m)	None Supplied				
Reporting Date: 23/11/2022	DETS Sample No	620695				

Determinand	Unit	RL	Accreditation	(n)				
Benzene	ug/kg	< 2	ISO17025	< 2				
Toluene	ug/kg	< 5	ISO17025	< 5				
Ethylbenzene	ug/kg	< 2	ISO17025	< 2				
p & m-xylene	ug/kg	< 2	ISO17025	< 2				
o-xylene	ug/kg	< 2	ISO17025	< 2				
MTBE	ug/kg	< 5	ISO17025	< 5				

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4480

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 22-09603	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: None Supplied	
Reporting Date: 23/11/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
620695	B3/TP04	Val 2	None Supplied	16.9	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09603

AA Environmental Ltd

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: None Supplied

Reporting Date: 23/11/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

Results - Soil



Project: 223159 Saunderton, Consolidated VAL 1 & VAL 2 Results

Client: AA Environmental Ltd				Chemtest/Dets Job No.:	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	22-34478	
Chemtest/Dets Sample ID.:				1503220	1503221	1503222	1503223	1503224	1503225	1503226	1503227	1503228	1503229	1503230	1503231	1503232	1503233	1503234	1503235	1503236	1503237	1503238	1503239	1503240	1503241
Client Sample ID.:				Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	Val 1	
Sample Location:				C6/TP03	C6/TP04	B6/TP03	B6/TP04	B6/TP01	B6/TP05	B6/TP02	C6/TP01	C6/TP05	C6/TP02	C5/TP03	C5/TP04	B5/TP03	B5/TP04	B5/TP01	B5/TP05	B5/TP02	C5/TP01	C5/TP05	C5/TP02	C4/TP03	C4/TP04
Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Date Sampled:				07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	07-Sep-2022	
Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Units	Ramboll Hardstanding Target Levels	Ramboll Soft Landscaping Target Levels																						
Asbestos Identification				No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
pH					8.7	8.6	8.8	8.7	8.8	9.0	8.7	8.9	8.9	9.0	8.5	8.8	8.7	8.7	8.8	8.6	8.8	9.1	8.7	8.8	9.1
Boron (Hot Water Soluble)	mg/kg			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Sulphate (2:1 Water Soluble) as SO4	g/l			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Cyanide (Total)	mg/kg			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Sulphide (Easily Liberatable)	mg/kg			0.70	1.6	1.0	0.72	1.4	0.74	1.0	1.6	0.5	0.5	1.5	0.65	0.95	0.76	0.66	1.2	1.5	0.78	0.68	1.6	0.5	0.5
Arsenic	mg/kg			0.5	0.5	0.5	2.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Cadmium	mg/kg			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Chromium	mg/kg			0.7	0.5	0.6	1.5	0.6	1.2	0.7	1.0	0.9	0.8	1.5	0.9	0.8	5.1	170	13	3.4	1.1	0.8	0.5	0.8	0.8
Copper	mg/kg			1.2	1.0	1.2	11	0.79	2.2	1.1	1.2	1.0	0.98	2.7	1.2	1.1	1.3	5.6	1.2	1.1	0.89	1.1	0.63	1.1	1.3
Mercury	mg/kg			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Nickel	mg/kg			1.1	0.80	1.0	4.0	0.74	1.8	1.0	1.2	0.98	0.76	1.4	1.2	1.0									

Results - Soil



Project: 223159 Saunderton, Consolidated V

[illegible]

Results - Soil



Project: 223159 Saunderton, Consolidated V

Client: AA Environmental Ltd			Chemtest/Dets Job No.:		22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-34300	22-38499	20-08610		
			Chemtest/Dets Sample ID.:		1502486	1502487	1502488	1502489	1502490	1502491	1502492	1502493	1502494	1502495	1502498	1502499	1502500	1502503	1502509	1502512	1502515	1502520	1502521	1521286	616644
Client Sample ID.:			VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	VAL 1	
Sample Location:			E2/TP01	D2/TP01	D2/TP02	D2/TP05	E2/TP05	E2/TP03	E2/TP04	D2/TP03	D2/TP04	D3/TP01	D3/TP04	D3/TP02	D4/TP01	E3/TP01	D4/TP04	D5/TP01	D5/TP04	D6/TP01	D6/TP04	E3/TP03	F2/ TP01		
Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Date Sampled:			06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	06-Sep-2022	05-Oct-2022	13-Oct-2022	
Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	NEW-ASB	NEW-ASB	NEW-ASB	DURHAM	DURHAM	DURHAM	MAIDSTONE
Determinand	Units	Ramboll Hardstanding Target Levels	Ramboll Soft Landscaping Target Levels																						
Asbestos Identification				No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
pH				9.0	8.9	9.1	8.9	9.1	8.8	9.0	9.1	8.9	8.8	9.1	9.8	8.9	8.9	8.9	9.2	8.8	8.0	7.8	9.0	9.00	
Boron (Hot Water Soluble)	mg/kg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.50	0.4	0.4	0.4	0.55	0.4	1.00	
Sulphate (2:1 Water Soluble) as SO4	g/l	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.014	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	
Cyanide (Total)	mg/kg	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.70	0.70	0.60	0.5	0.5	0.5	2.00	
Sulphide (Easily Liberatable)	mg/kg	1.9	1.6	1.1	1.5	1.5	2.3	1.1	0.50	1.1	1.4	0.87	12	1.5	1.3	0.84	0.77	0.95	0.61	1.3	0.9	5.00			
Arsenic	mg/kg	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	2.00		
Cadmium	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.21	0.20		
Chromium	mg/kg	1.9	1.0	1.0	0.8	0.5	0.5	1.0	0.5	0.5	1.0	0.5	0.7	0.5	0.8	0.6	0.8	0.8	0.5	1.0	3.6	2.00			
Copper	mg/kg	4.1	1.9	1.6	1.6	0.5	1.2	1.8	1.7	0.83	3.1	1.1	1.7	0.99	1.8	1.3	1.7	1.4	0.5	1.2	9.2	13.00			
Mercury	mg/kg	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.00		
Nickel	mg/kg	1.9	1.4	1.4	1.3	0.5	0.88	1.4	0.85	0.54	2.0	0.85	1.1</												

Results - Soil

		Project: 223159 Saunderton, Consolidated V.																						
Client: AA Environmental Ltd	Chemtest/Dets Job No.:		22-09160	22-09160	22-09160	22-09160	22-09160	22-09160	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	22-09162	
	Chemtest/Dets Sample ID.:		618868 ^B	618869 ^B	618870 ^B	618871 ^B	618872 ^B	618873 ^B	618879	618880	618881	618882	618883	618884	618885	618886	618887	618888	618889	618890	618891	618892	618893	
	Client Sample ID.:		VAL2	VAL2	VAL2	VAL2	VAL2	VAL2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	
	Sample Location:		F2/TP02	F2/TP03	F3/TP01	F3/TP02	F3/TP03	E3/TP04	E3/TP05	E4/TP01	E4/TP02	E4/TP03	E4/TP04	D3/TP05	D6/TP03	E6/TP02	E6/TP05	E6/TP04	D6/TP05	D6/TP02	E6/TP01	E6/TP03	D5/TP03	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Date Sampled:		31/10/22	31/10/22	31/10/22	31/10/22	31/10/22	31/10/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	
	Asbestos Lab:																							
Determinand	Units	Ramboll Hardstanding Target Levels	Ramboll Soft Landscaping Target Levels																					
Asbestos Identification				Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
pH				8.6	8.8	8.7	8.7	8.7	8.6	8.7	8.5	8.6	8.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.7	9	8.7	8.7
Boron (Hot Water Soluble)	mg/kg			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Sulphate (2:1 Water Soluble) as SO4	g/l			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	
Cyanide (Total)	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Sulphide (Easily Liberatable)	mg/kg			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Arsenic	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Cadmium	mg/kg			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Chromium	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Copper	mg/kg			9	8	8	8	9	8	7	9	10	9	8	9	8	8	11	8	8	8	9	9	8
Mercury	mg/kg			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nickel	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Lead	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	
Selenium	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Vanadium	mg/kg			1	2	1	1	1	4	1	2	2	2	4	1	1	2	1	1	1	2	2	1	
Zinc	mg/kg			11	10	9	9	11	10	9	11	15	10	8	9	15	8	8	8	8	10	10	9	
Chromium (Hexavalent)	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Total Organic Carbon	%			0.5	0.1	0.1	5	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.2	
Aliphatic TPH >C5-C6	mg/kg	2400	2400	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Aliphatic TPH >C6-C8	mg/kg	5300	5300	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Aliphatic TPH >C8-C10	mg/kg	1300	1300	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aliphatic TPH >C10-C12	mg/kg	6100	6100	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aliphatic TPH >C12-C16	mg/kg	43000	23000	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Aliphatic TPH >C21-C35	mg/kg	1000000	410000	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Aliphatic TPH >C21-C35	mg/kg	1000000	410000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Aliphatic TPH >C35-C44	mg/kg	1000000	410000																					
Total Aliphatic Hydrocarbons	mg/kg	-	-	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
Aromatic TPH >C5-C7	mg/kg	15	15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Aromatic TPH >C7-C8	mg/kg	33000	33000	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Aromatic TPH >C8-C10	mg/kg	2200	2200	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aromatic TPH >C10-C12	mg/kg	425	425	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aromatic TPH >C12-C16	mg/kg	1900	1900	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aromatic TPH >C16-C21	mg/kg	29000	7900	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Aromatic TPH >C21-C35	mg/kg	29000	7900	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	15	10	10	
Aromatic TPH >C35-C44	mg/kg	29000	7900																					
Total Aromatic Hydrocarbons	mg/kg	-	-	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
Total Petroleum Hydrocarbons	mg/kg	-	-	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
Naphthalene	mg/kg	110	110	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Acenaphthylene	mg/kg	76000	28000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Acenaphthene	mg/kg	75000	28000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Fluorene	mg/kg	60000	19000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Phenanthrene	mg/kg	22000	6200	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Anthracene	mg/kg	520000	150000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Fluoranthene	mg/kg	23000	23	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Pyrene	mg/kg	54000	15000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Benzo[a]anthracene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Chrysene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Benzo[b]fluoranthene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Benzo[k]fluoranthene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Benzo[a]pyrene	mg/kg	76	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Indeno(1,2,3-c,d)Pyrene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Dibenz(a,h)Anthracene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Benzo[g,h,i]perylene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Total Of 16 PAH's	mg/kg	-	-	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
Benzene	µg/kg	15000	15000	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Toluene	µg/kg	4400000	4400000	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Ethylbenzene	µg/kg	2800000	2800000	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
m & p-Xylene	µg/kg	6600000	6600000	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
o-Xylene	µg/kg	2600000	2600000	2	2																			

Results - Soil



Project: 223159 Saunderton, Consolidated V

Client: AA Environmental Ltd				Chemtest/Dets Job No.:				22-09162	22-09162	22-09162	22-09162	22-09200	22-09200	22-09200	22-09200	22-09346	22-09346	22-09346	22-09346	22-09346	22-09346	22-09346	22-09346	22-09347	22-09347	22-09347	22-09347
Chemtest/Dets Sample ID.:				618894	618895	618896	618897	619053 ^B	619054 ^B	619055 ^B	619056 ^B	619568	619569	619570	619571	619573	619574	619575	619576	619577	619578	619579	619580	619581			
Client Sample ID.:				VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL-2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2			
Sample Location:				D5/TP05	E5/TP02	E5/TP04	E5/TP05	A6/TP01	A5/TP04	A5/TP01	A4/TP01	F4/TP01	F4/TP02	F4/TP03	F5/TP01	F5/TP03	F6/TP01	F6/TP02	F6/TP03	WS110	E3/TP02	D3/TP03	D4/TP02	D4/TP05			
Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Date Sampled:				01/11/22	01/11/22	01/11/22	01/11/22	02/11/22	02/11/22	02/11/22	02/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22			
Asbestos Lab:																											
Determinand	Units	Ramboll Hardstanding Target Levels	Ramboll Soft Landscaping Target Levels																								
Asbestos Identification				Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected			
pH				8.6	8.8	8.7	8.7	8	8.1	8.1	8.1	7.7	8.6	8.6	8.6	8.6	8.6	8.8	8.5	8.5	8.5	8.5	8.5	8.5			
Boron (Hot Water Soluble)	mg/kg			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Sulphate (2:1 Water Soluble) as SO4	g/l			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.13	0.08	0.06	0.04	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
Cyanide (Total)	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Sulphide (Easily Liberatable)	mg/kg			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Arsenic	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Cadmium	mg/kg			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
Chromium	mg/kg			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Copper	mg/kg			8	9	8	8	7	7	8	7	10	9	8	12	8	7	7	7	7	7	8	8	8			
Mercury	mg/kg			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Nickel	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Lead	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Selenium	mg/kg			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Vanadium	mg/kg			1	1	1	1	2	2	3	1	2	1	1	1	2	1	1	1	2	1						

Results - Soil



Project: 223159 Saunderton, Consolidated V

Client: AA Environmental Ltd			Chemtest/Dets Job No.:				22-09347	22-09347	22-09347	22-09347	22-09347	22-09347	22-09347	22-09347	22-09347	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-09348	22-093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Results - Soil



Project: 223159 Saunderton, Consolidated V.

Client: AA Environmental Ltd	Chemtest/Dets Job No.:			22-09349	22-09349	22-09349	22-09349	22-09349	22-09349	22-09349	22-09349	22-09603	
	Chemtest/Dets Sample ID.:			619604	619605	619606	619607	619608	619610	619611	619612	619613	620695
	Client Sample ID.:			VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2	VAL 2
	Sample Location:			B2/TP03	B2/TP04	B2/TP05	B3/TP01	B3/TP02	C2/TP01	C2/TP05	C2/TP04	C3/TP01	B3/TP04
	Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:			08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22	08/11/22
	Asbestos Lab:												
Determinand	Units	Ramboll Hardstanding Target Levels	Ramboll Soft Landscaping Target Levels										
Asbestos Identification				Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH				8.4	8.5	8.5	8.5	8.5	8.6	8.6	8.5	8.6	7.9
Boron (Hot Water Soluble)	mg/kg			1	1	1	1	1	1	1	1	1	1
Sulphate (2:1 Water Soluble) as SO4	g/l			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Cyanide (Total)	mg/kg			2	2	2	2	2	2	2	2	2	2
Sulphide (Easily Liberatable)	mg/kg			5	5	5	5	5	5	5	5	5	5
Arsenic	mg/kg			2	2	2	2	2	2	2	2	2	2
Cadmium	mg/kg			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Chromium	mg/kg			2	2	2	2	2	2	2	2	2	2
Copper	mg/kg			6	6	7	7	7	7	7	7	7	7
Mercury	mg/kg			1	1	1	1	1	1	1	1	1	1
Nickel	mg/kg			3	3	3	3	3	3	3	3	3	3
Lead	mg/kg			3	3	3	3	3	3	3	3	3	3
Selenium	mg/kg			3	3	3	3	3	3	3	3	3	3
Vanadium	mg/kg			1	1	1	2	1	1	1	1	1	1
Zinc	mg/kg			7	7	8	7	7	8	8	8	8	9
Chromium (Hexavalent)	mg/kg			2	2	2	2	2	2	2	2	2	2
Total Organic Carbon	%			0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2
Aliphatic TPH >C5-C6	mg/kg	2400	2400	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aliphatic TPH >C6-C8	mg/kg	5300	5300	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aliphatic TPH >C8-C10	mg/kg	1300	1300	2	2	2	2	2	2	2	2	2	2
Aliphatic TPH >C10-C12	mg/kg	6100	6100	2	2	2	2	2	2	2	2	2	2
Aliphatic TPH >C12-C16	mg/kg	43000	23000	3	3	3	3	3	3	3	3	3	3
Aliphatic TPH >C16-C21	mg/kg	1000000	410000	3	3	3	3	3	3	3	3	3	3
Aliphatic TPH >C21-C35	mg/kg	1000000	410000	10	10	10	10	10	10	10	10	10	10
Aliphatic TPH >C35-C44	mg/kg	1000000	410000										
Total Aliphatic Hydrocarbons	mg/kg	-	-	21	21	21	21	21	21	21	21	21	21
Aromatic TPH >C5-C7	mg/kg	15	15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aromatic TPH >C7-C8	mg/kg	33000	33000	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aromatic TPH >C8-C10	mg/kg	2200	2200	2	2	2	2	2	2	2	2	2	2
Aromatic TPH >C10-C12	mg/kg	425	425	2	2	2	2	2	2	2	2	2	2
Aromatic TPH >C12-C16	mg/kg	1900	1900	2	2	2	2	2	2	2	2	2	2
Aromatic TPH >C16-C21	mg/kg	29000	7900	3	3	3	3	3	3	3	3	3	3
Aromatic TPH >C21-C35	mg/kg	29000	7900	10	10	10	10	10	10	10	10	10	10
Aromatic TPH >C35-C44	mg/kg	29000	7900										
Total Aromatic Hydrocarbons	mg/kg	-	-	21	21	21	21	21	21	21	21	21	21
Total Petroleum Hydrocarbons	mg/kg	-	-	42	42	42	42	42	42	42	42	42	42
Naphthalene	mg/kg	110	110	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Acenaphthylene	mg/kg	76000	28000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Acenaphthene	mg/kg	75000	28000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fluorene	mg/kg	60000	19000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Phenanthrene	mg/kg	22000	6200	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Anthracene	mg/kg	520000	150000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fluoranthene	mg/kg	23000	23	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Pyrene	mg/kg	54000	15000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Benzo[a]anthracene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Chrysene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Benzo[b]fluoranthene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Benzo[k]fluoranthene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Benzo[a]pyrene	mg/kg	76	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Indeno(1,2,3-c,d)Pyrene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Dibenz(a,h)Anthracene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Benzo[g,h,i]perylene	mg/kg	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Of 16 PAH's	mg/kg	-	-	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Benzene	µg/kg	15000	15000	2	2	2	3	2	2	2	2	2	2
Toluene	µg/kg	4400000	4400000	5	5	5	5	5	5	5	5	5	5
Ethylbenzene	µg/kg	2800000	2800000	2	2	2	2	2	2	2	2	2	2
m & p-Xylene	µg/kg	6600000	6600000	2	2	2	2	2	2	2	2	2	2
o-Xylene	µg/kg	2600000	2600000	2	2	2	2	2	2	2	2	2	2
Methyl Tert-Butyl Ether	µg/kg	-	-	5	5	5	5	5	5	5	5	5	5
Total Phenols	mg/kg	-	-	2	2	2	2	2	2	2	2	2	2



Comment A2/TP01.	Project 223159 - Saunderton
	Photo Plate 1
	Date 02/11/2022
	Originator Kieran Evans & Sam Davies
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

Fragment of suspected Asbestos Containing Material [ACM-1] encountered at surface level at A2/TP01.

Project

223159 - Saunderton

Photo Plate

2

Date

08/11/2022

Originator

Kieran Evans & Sam Davies



AAe

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Comment

Further fragments of suspected asbestos containing material (ACM) encountered at surface level at A2/TP01.

Project

223159 – Saunderton

Photo Plate

3

Date

08/11/2022

Originator

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Comment A2/TP02 sample area – facing north-northwest.	Project 223159 – Saunderton
	Photo Plate 4
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

A2/TP03.

Project

223159 – Saunderton

Photo Plate

5

Date

08/11/2022

Originator

Kieran Evans & Sam Davies



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Comment

A2/TP04 facing north-northwest.

Project

223159 – Saunderton

Photo Plate

6

Date

08/11/2022

Originator

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Comment A2/TP05.	Project 223159 – Saunderton
	Photo Plate 7
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

Facing north from A3/TP01.

Project

223159 – Saunderton

Photo Plate

8

Date

08/11/2022

Originator

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Comment A3/TP02.	Project 223159 – Saunderton
	Photo Plate 9
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A3/TP03.	Project 223159 – Saunderton
	Photo Plate 10
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A3/TP04.	Project 223159 – Saunderton
	Photo Plate 11
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A3/TP05.	Project 223159 – Saunderton
	Photo Plate 12
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A4/TP01.	Project 223159 – Saunderton
	Photo Plate 13
	Date 02/11/2022
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Comment A4/TP02.	Project 223159 – Saunderton
	Photo Plate 14
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A4/TP05.	Project 223159 – Saunderton
	Photo Plate 15
	Date 08/09/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A5/TP01.	Project 223159 – Saunderton
	Photo Plate 16
	Date 02/11/2022
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A5/TP04.	Project 223159 – Saunderton
	Photo Plate 17
	Date 02/11/2022
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment A6/TP01, Facing across the site towards the northeast boundary.	Project 223159 – Saunderton
	Photo Plate 18
	Date 02/11/2022
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment
B2/TP01.

Project
223159 - Saunderton

Photo Plate
1

Date
08/11/22

Originator
Kieran Evans & Sam Davies



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Comment
B2/TP02.

Project
223159 - Sanderton

Photo Plate
2

Date
08/11/22

Originator
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Comment
B2/TP03.

Project
223159 – Saunderton

Photo Plate
3

Date
08/11/22

Originator
Kieran Evans & Sam Davies



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Comment
B2/TP04.

Project
223159 – Saunderton

Photo Plate
4

Date
08/11/22

Originator
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Comment
B2/TP05.

Project
223159 – Sanderton

Photo Plate
5

Date
08/11/22

Originator
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Comment WS110.	Project 223159 – Saunderton
	Photo Plate 6
	Date 08/11/22
	Originator Kieran Evans & Sam Davies
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment B3/TP01.	Project 223159 – Saunderton
	Photo Plate 7
	Date 08/11/22
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Comment
B3/TP02.

Project
223159 – Saunderton

Photo Plate
8

Date
08/11/22

Originator
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Comment B3/TP03	Project 223159 – Saunderton
	Photo Plate 9
	Date 07/09/22
	Originator Kieran Evans & Sam Davies
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk


Comment

B3/TP04, Samples were mislabelled.

Project

223159 – Saunderton

Photo Plate

10

Date

08/11/22

Originator

Kieran Evans & Sam Davies


AA Environmental Limited

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Comment
B3/TP05.

Project
223159 – Saunderton

Photo Plate
11

Date
07/09/22

Originator
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Comment

B4/TP01.

Project

223159 – Saunderton

Photo Plate

12

Date

07/09/22

Originator

Kieran Evans & Sam Davies


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Comment
B4/TP01.

Project
223159 – Saunderton

Photo Plate
13

Date
07/09/22

Originator
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Comment
B4/TP02.

Project
223159 – Saunderton

Photo Plate
14

Date
07/09/22

Originator
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Comment
B4/TP03.

Project
223159 – Saunderton

Photo Plate
15

Date
07/09/22

Originator
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Comment
B4/TP04.

Project
223159 – Saunderton

Photo Plate
16

Date
07/09/22

Originator
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Comment

B4/TP04.

Project

223159 – Saunderton

Photo Plate

17

Date

07/09/22

Originator

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Comment
B4/TP05.

Project
223159 – Saunderton

Photo Plate
18

Date
07/09/22

Originator
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Comment
B5/TP01.

Project
223159 – Saunderton

Photo Plate
19

Date
07/09/22

Originator
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Comment
B5/TP02.

Project
223159 – Saunderton

Photo Plate
20

Date
07/09/22

Originator
Kieran Evans & Sam Davies



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Comment
B5/TP03.

Project
223159 – Saunderton

Photo Plate
21

Date
07/09/22

Originator
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Comment
B5/TP03 – wider site photo.

Project
223159 – Saunderton

Photo Plate
22

Date
07/09/22

Originator
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Comment
B5/TP04.

Project
223159 – Saunderton

Photo Plate
23

Date
07/09/22

Originator
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Comment

B5/TP04 – wider site photo.

Project

223159 – Saunderton

Photo Plate

24

Date

07/09/22

Originator

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Comment
B5/TP05.

Project
223159 – Saunderton

Photo Plate
25

Date
07/09/22

Originator
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Comment

B6/TP01.

Project

223159 – Saunderton

Photo Plate

26

Date

07/09/22

Originator

Kieran Evans & Sam Davies



AAe

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Comment
B6/TP02.

Project
223159 – Saunderton

Photo Plate
27

Date
07/09/22

Originator
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Comment
B6/TP03.

Project
223159 – Saunderton

Photo Plate
28

Date
07/09/22

Originator
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Comment
B6/TP04.

Project
223159 – Saunderton

Photo Plate
29

Date
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Project
223159 – Saunderton

Photo Plate
30

Date
07/09/22

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Comment

B6/TP05 – wider site photo.

Project

223159 – Saunderton

Photo Plate

31

Date

07/09/22

Originator

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	Photo Plate 1
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
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C2/TP02.

Project

223159 - Saunderton

Photo Plate

2

Date

08/09/2022

Originator

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Project

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Photo Plate

3

Date

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	Photo Plate 4
	Date 08/11/2022
	Originator Kieran Evans & Sam Davies
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Project

223159 - Saunderton

Photo Plate

5

Date

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	Photo Plate 6
	Date 08/11/2022
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Project

223159 – Saunderton

Photo Plate

7

Date

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Originator

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Project

223159 – Saunderton

Photo Plate

8

Date

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Originator

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Project

223159 – Saunderton

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9

Date

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Originator

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C4/TP01.

Project

223159 – Saunderton

Photo Plate

11

Date

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Originator

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C4/TP02.

Project

223159 – Saunderton

Photo Plate

12

Date

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