SOCOTEC
Environmental Chemistry

Certificate of Analysis

Client: Land & Water Services Ltd

Project: 25083916

Quote: BEC240736207 V8.2

Project Ref: Land & Water Services Ltd

Site: Mon & Brec 2025

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No. Samples Received: 30

Date Received: 29/08/2025

Analysis Completed: 23/09/2025

Date Issued: 23/09/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory

Reported by Account Manager
Lucy Bailey

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Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Samples Analysed

Text ID	Sample Reference	Sampling Date	Sample Type	Sample Description
25083916-001	M1	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-002	M2	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-003	M3	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-004	M4	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-005	M5	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-006	M6	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-007	M7	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-008	M8	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-009	M9	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-010	M10	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-011	M11	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-012	M12	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-013	M13	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-014	M14	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-015	M15	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-016	M16	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-017	M17	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-018	M18	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-019	M19	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-020	M20	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-021	M21	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-022	M22	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-023	M23	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-024	M24	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-025	M25	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-026	M26	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-027	M27	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-028	M28	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-029	M29	19/08/2025 00:00:00	SOLID	Silt Sample
25083916-030	M30	19/08/2025 00:00:00	SOLID	Silt Sample

SOCOTEC

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING 1252

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-001	25083916-002	25083916-003	25083916-004	25083916-005
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M1	M2	M3	M4	M5
CLANDPREP	Total Moisture at 35°C	0.1 %	N		74.0	70.9	72.1	51.1	72.2
	Major Constituents	-	N		SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N		None	None	None	None	None
	Miscellaneous Constituents	-	N		Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^		7.1	7.1	7.3	7.3	7.2
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^		132	143	175	95	131
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^		3.2	3.3	2.0	0.8	3.2
WSLM59	Total Organic Carbon	0.02 % m/m	U^		7.89	11.2	7.92	7.20	8.60
WSLM59	Soil Organic Matter	0.04 % m/m	U^		13.6	19.3	13.6	12.4	14.8
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^		0.8	3.8	3.1	3.7	0.5
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^		6600	6300	5900	3000	6500
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^		2.60	3.60	3.40	1.60	2.40
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^		183	132	156	30.2	115
ISEFSS	Fluoride as F	0.2 mg/kg	U^		<1.0 D	<1.0 D	<1.0 D	0.3	<1.0 D
SFAPI	Total Cyanide	0.5 mg/kg	M^		<1.9	<1.7	<1.8	<1.0	<1.8
SFAPI	Phenol Index	0.5 mg/kg	U^		<1.9	<1.7	<1.8	<1.0	<1.8
SFAPI	Sulphide as S	0.5 mg/kg	N^		5.9	7.4	3.2	2.3	6.8
WSLM59	Sulphur as S	0.005 % m/m	N^		0.063	0.081	0.085	0.058	0.088
ICPMSS	Arsenic as As	0.3 mg/kg	M^		5.5	4.3	5.9	2.9	4.7
ICPSOIL	Barium as Ba	0.5 mg/kg	M^		266	177	267	98.1	232
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^		0.7	0.5	0.7	0.2	0.7
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^		33.8	18.3	33.9	10.5	29.1
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^		0.2	0.2	0.1	<0.1	0.2
ICPMSS	Copper as Cu	1.6 mg/kg	M^		30.6	19.5	30.0	12.2	27.4
ICPMSS	Lead as Pb	0.7 mg/kg	M^		39.4	30.8	40.0	14.0	34.9
ICPMSS	Mercury as Hg	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^		33.4	20.3	33.1	12.3	28.0
ICPMSS	Selenium as Se	0.5 mg/kg	M^		1.1	0.9	1.2	<0.5	1.2
ICPSOIL	Sodium as Na	30 mg/kg	U^		281	249	355	138	250
ICPMSS	Zinc as Zn	16 mg/kg	M^		142.3	92.9	142.6	52.4	124.1
ICPBOR	Boron as B	0.5 mg/kg	M^		1.0	1.2	1.6	0.9	0.9
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^		576	532	223	126	211
	Potassium as K by Mass	10 mg/kg	N^		380	243	167	69	140
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^		<39	<34	<36	<20	<36
	Toluene (HS_1D_AR)	5 µg/kg	M^		<19	<17	<18	<10	<18
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^		<19	<17	<18	<10	<18
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^		<39	<34	<36	<20	<36
	o-Xylene (HS_1D_AR)	5 µg/kg	M^		<19	<17	<18	<10	<18
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.769	<0.687	<0.717	<0.409	<0.719
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.769	<0.687	<0.717	<0.409	<0.719
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.769	<0.687	<0.717	<0.409	<0.719
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.769	<0.687	<0.717	<0.409	<0.719
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.769	<0.687	<0.717	<0.409	<0.719
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^		<0.039	<0.034	<0.036	<0.020	<0.036
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^		<0.019	<0.017	<0.018	<0.010	<0.018
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^		<0.077	<0.069	<0.072	<0.041	<0.072
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^		125	89.0	<71.7	<40.9	115
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	<14.4
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	<14.4
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	<14.4
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^		94.8	64.3	43.4	27.5	86.0
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^		27.3	<20.6	<21.5	<12.3	26.4
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^		211	227	112	72.9	249
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	<14.4
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	<14.4
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<15.4	<13.7	<14.3	<8.18	16.1
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^		152	182	84.3	52.3	177
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^		63.0	51.4	30.1	25.3	77.8
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^		292	276	188	97.9	226
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		80.6	75.9	77.0	30.7	60.3
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		212	199	111	66.9	165
PAHMSUS	Acenaphthene	0.08 mg/kg	M^		<0.31	<0.28	<0.29	<0.16	<0.29
	Acenaphthylene	0.08 mg/kg	U^		<0.31	<0.28	<0.29	<0.16	<0.29
	Anthracene	0.08 mg/kg	U^		<0.31	<0.28	<0.29	<0.16	<0.29
	Benzo[a]anthracene	0.08 mg/kg	M^		0.65	0.31	0.47	0.27	0.70
	Benzo[a]pyrene	0.08 mg/kg	M^		0.85* B	0.41* B	0.58* B	0.35* B	0.91* B
	Benzo[b]fluoranthene	0.08 mg/kg	M^		1.34	0.66	0.91	0.57	1.43
	Benzo[g,h,i]perylene	0.08 mg/kg	M^		0.55	<0.28	0.39	0.23	0.58
	Benzo[k]fluoranthene	0.08 mg/kg	M^		0.44	<0.28	0.32	0.17	0.49
	Chrysene	0.08 mg/kg	M^		0.65	0.30	0.48	0.28	0.68
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^		<0.31	<0.28	<0.29	<0.16	<0.29
	Fluoranthene	0.08 mg/kg	M^		1.07	0.50	0.74	0.45	1.11
	Fluorene	0.08 mg/kg	M^		<0.31	<0.28	<0.29	<0.16	<0.29
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^		0.64	0.33	0.45	0.27	0.65
	Naphthalene	0.08 mg/kg	M^		<0.31	<0.28	<0.29	<0.16	<0.29
	Phenanthrene	0.08 mg/kg	M^		0.45	<0.28	0.32	0.19	0.46
	Pyrene	0.08 mg/kg	M^		0.76	0.36	0.53	0.31	0.79

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-001	25083916-002	25083916-003	25083916-004	25083916-005
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M1	M2	M3	M4	M5
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		4.87	2.56	3.50	2.07	5.14
	Total PAH 16	1.28 mg/kg	U^		9.24	5.35	6.91	4.07	9.51
SUB022	Total Nitrogen as N	0.08 %	U		0.66*	0.63*	0.59*	0.30*	0.65*
Grid Reference	Eastings	-	N		321598	321558	321243	321219	320687
	Northings	-	N		216929	216959	216999	216997	217256

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-006	25083916-007	25083916-008	25083916-009	25083916-010
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M6	M7	M8	M9	M10
CLANDPREP	Total Moisture at 35°C	0.1 %	N		72.4	76.0	72.7	70.9	73.2
	Major Constituents	-	N		SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N		None	None	None	None	None
	Miscellaneous Constituents	-	N		Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^		7.0	7.1	7.0	7.0	7.1
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^		129	147	173	141	140
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^		0.8	2.4	1.6	1.6	1.2
WSLM59	Total Organic Carbon	0.02 % m/m	U^		8.80	11.2	6.90	4.70	8.21
WSLM59	Soil Organic Matter	0.04 % m/m	U^		15.2	19.4	11.9	8.10	14.2
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^		0.7	3.1	4.1	4.4	1.3
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^		7200	8700	6400	6300	6500
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^		4.70	3.90	3.50	2.20	3.40
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^		187	244	177	161	183
ISEFSS	Fluoride as F	0.2 mg/kg	U^		<1.0 D	<1.0 D	<1.0 D	<1.0 D	<1.0 D
SFAPI	Total Cyanide	0.5 mg/kg	M^		<1.8	<2.1	<1.8	<1.7	<1.9
SFAPI	Phenol Index	0.5 mg/kg	U^		<1.8	<2.1	<1.8	<1.7	<1.9
SFAPI	Sulphide as S	0.5 mg/kg	N^		7.6	6.2	4.7	4.3	4.2
WSLM59	Sulphur as S	0.005 % m/m	N^		0.107	0.095	0.093	0.089	0.098
ICPMSS	Arsenic as As	0.3 mg/kg	M^		4.6	4.5	4.1	3.6	3.5
ICPSOIL	Barium as Ba	0.5 mg/kg	M^		273	239	231	208	193
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^		0.8	0.8	0.7	0.6	0.7
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^		34.2	27.7	28.4	23.7	24.0
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^		0.2	0.3	0.2	0.2	0.3
ICPMSS	Copper as Cu	1.6 mg/kg	M^		33.8	28.6	30.8	25.9	25.9
ICPMSS	Lead as Pb	0.7 mg/kg	M^		42.2	38.9	42.3	39.6	35.7
ICPMSS	Mercury as Hg	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^		32.7	27.0	27.5	22.7	23.4
ICPMSS	Selenium as Se	0.5 mg/kg	M^		1.5	1.3	1.3	1.2	1.4
ICPSOIL	Sodium as Na	30 mg/kg	U^		261	303	308	274	231
ICPMSS	Zinc as Zn	16 mg/kg	M^		163.3	125.5	145.1	125.5	121.2
ICPBOR	Boron as B	0.5 mg/kg	M^		1.3	0.7	0.8	0.7	0.8
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^		255	269	222	210	226
	Potassium as K by Mass	10 mg/kg	N^		172	164	152	125	139
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^		<36	<42	<37	<34	<37
	Toluene (HS_1D_AR)	5 µg/kg	M^		<18	<21	<18	<17	<19
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^		<18	<21	<18	<17	<19
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^		<36	<42	<37	<34	<37
	o-Xylene (HS_1D_AR)	5 µg/kg	M^		<18	<21	<18	<17	<19
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.725	<0.833	<0.733	<0.687	<0.746
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.725	<0.833	<0.733	<0.687	<0.746
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.725	<0.833	<0.733	<0.687	<0.746
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.725	<0.833	<0.733	<0.687	<0.746
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.725	<0.833	<0.733	<0.687	<0.746
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^		<0.036	<0.042	<0.037	<0.034	<0.037
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^		<0.018	<0.021	<0.018	<0.017	<0.019
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^		<0.073	<0.084	<0.073	<0.069	<0.075
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^		130	119	89.2	106	96.8
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<14.5	<16.7	<14.7	<13.7	<14.9
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<14.5	<16.7	<14.7	<13.7	<14.9
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<14.5	<16.7	<14.7	<13.7	<14.9
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^		96.0	84.3	69.0	73.2	73.6
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^		25.1	<25.0	<22.0	<20.6	<22.4
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^		240	330	121	310	176
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<14.5	<16.7	<14.7	<13.7	<14.9
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<14.5	<16.7	<14.7	32.7	<14.9
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<14.5	23.5	<14.7	29.1	<14.9
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^		174	233	105	204	131
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^		77.2	93.1	<22.0	66.2	43.9
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^		376	337	227	333	249
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		120	114	70.8	123	87.4
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		255	223	155	210	161
PAHMSUS	Acenaphthene	0.08 mg/kg	M^		<0.29	<0.33	<0.29	<0.28	<0.30
	Acenaphthylene	0.08 mg/kg	U^		<0.29	<0.33	<0.29	<0.28	<0.30
	Anthracene	0.08 mg/kg	U^		<0.29	<0.33	<0.29	<0.28	<0.30
	Benzo[a]anthracene	0.08 mg/kg	M^		0.72	<0.33	0.42	0.59	0.36
	Benzo[a]pyrene	0.08 mg/kg	M^		0.94* B	0.38* B	0.53* B	0.71* B	0.47* B
	Benzo[b]fluoranthene	0.08 mg/kg	M^		1.47	0.61	0.86	1.10	0.74
	Benzo[g,h,i]perylene	0.08 mg/kg	M^		0.57	<0.33	0.33	0.39	<0.30
	Benzo[k]fluoranthene	0.08 mg/kg	M^		0.47	<0.33	<0.29	0.36	<0.30
	Chrysene	0.08 mg/kg	M^		0.69	<0.33	0.42	0.54	0.37
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^		<0.29	<0.33	<0.29	<0.28	<0.30
	Fluoranthene	0.08 mg/kg	M^		1.16	0.47	0.66	0.96	0.58
	Fluorene	0.08 mg/kg	M^		<0.29	<0.33	<0.29	<0.28	<0.30
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^		0.65	<0.33	0.39	0.48	0.33
	Naphthalene	0.08 mg/kg	M^		<0.29	<0.33	<0.29	<0.28	<0.30
	Phenanthrene	0.08 mg/kg	M^		0.47	<0.33	<0.29	0.48	<0.30
	Pyrene	0.08 mg/kg	M^		0.83	0.34	0.46	0.65	0.41

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-006	25083916-007	25083916-008	25083916-009	25083916-010
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M6	M7	M8	M9	M10
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		5.23	2.65	3.21	4.05	2.85
	Total PAH 16	1.28 mg/kg	U^		9.72	5.79	6.42	7.90	5.93
SUB022	Total Nitrogen as N	0.08 %	U		0.72*	0.87*	0.64*	0.63*	0.65*
Grid Reference	Eastings	-	N		320657	320704	320707	320687	320681
	Northings	-	N		217296	217756	217806	217928	217977

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-011	25083916-012	25083916-013	25083916-014	25083916-015
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M11	M12	M13	M14	M15
CLANDPREP	Total Moisture at 35°C	0.1 %	N		69.4	68.8	58.9	69.4	80.3
	Major Constituents	-	N		SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N		None	None	None	None	None
	Miscellaneous Constituents	-	N		Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^		7.1	7.0	7.0	7.0	7.0
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^		111	116	100	120	266
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^		1.6	2.8	2.8	0.4	2.0
WSLM59	Total Organic Carbon	0.02 % m/m	U^		7.06	5.46	6.00	7.27	12.3
WSLM59	Soil Organic Matter	0.04 % m/m	U^		12.2	9.41	10.3	12.5	21.2
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^		4.1	4.1	2.8	0.7	5.1
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^		5300	5400	4100	5400	7290
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^		1.70	1.90	<1.22	<1.63	3.10
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^		121	107	61.9	118	335
ISEFSS	Fluoride as F	0.2 mg/kg	U^		<1.0 D	<1.0 D	<0.4 D	<1.0 D	<1.0 D
SFAPI	Total Cyanide	0.5 mg/kg	M^		<1.6	<1.6	<1.2	<1.6	<2.5
SFAPI	Phenol Index	0.5 mg/kg	U^		<1.6	<1.6	<1.2	<1.6	<2.5
SFAPI	Sulphide as S	0.5 mg/kg	N^		3.4	3.6	3.9	4.2	9.0
WSLM59	Sulphur as S	0.005 % m/m	N^		0.085	0.088	0.079	0.100	0.142
ICPMSS	Arsenic as As	0.3 mg/kg	M^		3.4	3.4	2.9	3.5	4.0
ICPSOIL	Barium as Ba	0.5 mg/kg	M^		174	177	130	199	201
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^		0.7	0.7	0.5	0.8	0.9
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^		21.0	22.1	14.5	24.7	16.4
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^		0.2	0.2	0.1	0.2	0.3
ICPMSS	Copper as Cu	1.6 mg/kg	M^		23.4	24.8	15.9	26.3	25.5
ICPMSS	Lead as Pb	0.7 mg/kg	M^		35.8	37.4	28.0	40.6	50.6
ICPMSS	Mercury as Hg	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^		20.3	21.5	14.6	23.7	16.6
ICPMSS	Selenium as Se	0.5 mg/kg	M^		1.1	1.1	0.9	1.4	1.6
ICPSOIL	Sodium as Na	30 mg/kg	U^		194	211	155	222	344
ICPMSS	Zinc as Zn	16 mg/kg	M^		116.5	123.7	91.0	133.1	140.8
ICPBOR	Boron as B	0.5 mg/kg	M^		0.7	0.7	<0.5	0.6	0.6
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^		199	196	155	208	294
	Potassium as K by Mass	10 mg/kg	N^		115	114	81	115	257
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^		<33	<32	<24	<33	<51
	Toluene (HS_1D_AR)	5 µg/kg	M^		<16	<16	<12	<16	<25
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^		<16	<16	<12	<16	<25
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^		<33	<32	<24	<33	<51
	o-Xylene (HS_1D_AR)	5 µg/kg	M^		<16	<16	<12	<16	<25
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.654	<0.641	<0.487	<0.654	<1.02
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.654	<0.641	<0.487	<0.654	<1.02
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.654	<0.641	<0.487	<0.654	<1.02
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.654	<0.641	<0.487	<0.654	<1.02
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.654	<0.641	<0.487	<0.654	<1.02
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^		<0.033	<0.032	<0.024	<0.033	<0.051
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^		<0.016	<0.016	<0.012	<0.016	<0.025
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^		<0.065	<0.064	<0.049	<0.065	<0.102
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^		<65.4	70.4	<48.7	79.6	<102
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<13.1	<12.8	<9.73	<13.1	<20.3
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<13.1	<12.8	<9.73	<13.1	<20.3
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<13.1	<12.8	<9.73	<13.1	<20.3
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^		<32.7	46.6	<24.3	59.4	<50.8
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^		<19.6	<19.2	<14.6	<19.6	<30.5
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^		93.1	172	56.3	211	229
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<13.1	<12.8	<9.73	<13.1	<20.3
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<13.1	<12.8	<9.73	<13.1	<20.3
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<13.1	14.1	<9.73	<13.1	<20.3
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^		70.3	129	47.1	157	174
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^		<19.6	35.6	<14.6	60.6	44.6
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^		179	151	136	304	317
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		83.6	45.4	54.7	103	125
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		94.6	105	80.4	201	191
PAHMSUS	Acenaphthene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	<0.26	<0.41
	Acenaphthylene	0.08 mg/kg	U^		<0.26	<0.26	<0.20	<0.26	<0.41
	Anthracene	0.08 mg/kg	U^		<0.26	<0.26	<0.20	<0.26	<0.41
	Benzo[a]anthracene	0.08 mg/kg	M^		<0.26	0.47	<0.20	0.92	<0.41
	Benzo[a]pyrene	0.08 mg/kg	M^		<0.26* B	0.47* B	<0.20* B	1.00* B	<0.41* B
	Benzo[b]fluoranthene	0.08 mg/kg	M^		0.40	0.73	0.25	1.54	0.58
	Benzo[g,h,i]perylene	0.08 mg/kg	M^		<0.26	0.27	<0.20	0.57	<0.41
	Benzo[k]fluoranthene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	0.52	<0.41
	Chrysene	0.08 mg/kg	M^		<0.26	0.41	<0.20	0.80	<0.41
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	<0.26	<0.41
	Fluoranthene	0.08 mg/kg	M^		0.32	0.61	0.23	1.32	0.48
	Fluorene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	<0.26	<0.41
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^		<0.26	0.32	<0.20	0.69	<0.41
	Naphthalene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	<0.26	<0.41
	Phenanthrene	0.08 mg/kg	M^		<0.26	<0.26	<0.20	0.54	<0.41
	Pyrene	0.08 mg/kg	M^		<0.26	0.42	<0.20	0.90	<0.41

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-011	25083916-012	25083916-013	25083916-014	25083916-015
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M11	M12	M13	M14	M15
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		1.97	2.91	1.41	5.73	3.01
	Total PAH 16	1.28 mg/kg	U^		4.38	5.74	3.20	10.4	6.74
SUB022	Total Nitrogen as N	0.08 %	U		0.53*	0.54*	0.41*	0.54*	0.73*
Grid Reference	Eastings	-	N		320406	320364	319589	319543	319362
	Northings	-	N		218705	218732	218999	219017	219092

Analysis Results

Method Code	Analysis	MDL	Accred.	25083916-016	25083916-017	25083916-018	25083916-019	25083916-020
	SOCOTEC Sample ID:			25083916-016	25083916-017	25083916-018	25083916-019	25083916-020
	Sampling Date:			19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
	Customer ID:			M16	M17	M18	M19	M20
CLANDPREP	Total Moisture at 35°C	0.1 %	N	69.4	52.2	80.1	69.6	66.3
	Major Constituents	-	N	SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N	Gravel	None	None	None	None
	Miscellaneous Constituents	-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^	7.0	7.0	7.0	7.1	7.3
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^	136	82	215	111	103
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^	1.6	2.0	4.0	3.2	2.4
WSLM59	Total Organic Carbon	0.02 % m/m	U^	8.62	3.06	>21.4* E	10.6	5.77
WSLM59	Soil Organic Matter	0.04 % m/m	U^	14.9	5.27	>31.8* E	18.3	9.95
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^	3.3	3.5	2.5	3.4	1.0
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^	5700	3300	8200	5600	4900
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^	2.20	2.70	4.40	2.40	4.00
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^	116	30.2	238	126	64.0
ISEFSS	Fluoride as F	0.2 mg/kg	U^	<1.0 D	0.2	<0.8* A,D	<1.0 D	<0.2
SFAPI	Total Cyanide	0.5 mg/kg	M^	<1.6	<1.1	<2.5	<1.6	<1.5
SFAPI	Phenol Index	0.5 mg/kg	U^	<1.6	<1.1	<2.5	<1.6	<1.5
SFAPI	Sulphide as S	0.5 mg/kg	N^	4.0	2.3	9.5	4.1	4.5
WSLM59	Sulphur as S	0.005 % m/m	N^	0.092	0.061	0.158	0.058	0.050
ICPMSS	Arsenic as As	0.3 mg/kg	M^	3.9	2.8	5.0	4.4	3.6
ICPSOIL	Barium as Ba	0.5 mg/kg	M^	176	141	161	176	164
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^	0.7	0.4	0.6	0.6	0.6
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^	20.5	13.5	10.2	19.8	19.8
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^	<0.1	0.1	0.3	0.3	0.2
ICPMSS	Copper as Cu	1.6 mg/kg	M^	24.1	13.1	16.9	21.1	19.7
ICPMSS	Lead as Pb	0.7 mg/kg	M^	38.1	20.3	26.7	29.6	27.4
ICPMSS	Mercury as Hg	0.5 mg/kg	M^	<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^	<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^	21.0	15.4	12.8	20.8	21.3
ICPMSS	Selenium as Se	0.5 mg/kg	M^	1.1	0.5	0.8	0.8	0.8
ICPSOIL	Sodium as Na	30 mg/kg	U^	186	121	316	221	183
ICPMSS	Zinc as Zn	16 mg/kg	M^	122.7	73.2	93.8	91.9	89.3
ICPBOR	Boron as B	0.5 mg/kg	M^	0.5	<0.5	0.9	<0.5	0.7
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^	228	130	292	212	186
	Potassium as K by Mass	10 mg/kg	N^	211	71	157	121	112
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^	<33	<21	<50	<33	<30
	Toluene (HS_1D_AR)	5 µg/kg	M^	<16	<11	<25	<16	<15
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^	<16	<11	<25	<16 C	<15
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^	<33	<21	<50	<33 C	<30
	o-Xylene (HS_1D_AR)	5 µg/kg	M^	<16	<11	<25	<16 C	<15
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^	<0.654	<0.418	<1.01	<0.658	<0.593
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^	<0.654	<0.418	<1.01	<0.658	<0.593
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^	<0.654	<0.418	<1.01	<0.658	<0.593
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^	<0.654	<0.418	<1.01	<0.658	<0.593
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^	<0.654	<0.418	<1.01	<0.658 C	<0.593
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^	<0.033	<0.021	<0.050	<0.033	<0.030
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^	<0.016	<0.011	<0.025	<0.016	<0.015
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^	<0.065	<0.043	<0.101	<0.066 C	<0.060
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^	88.7	<41.8	<101	<65.8	<59.3
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^	<13.1	<8.37	<20.1	<13.2	<11.9
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^	<13.1	<8.37	<20.1	<13.2	<11.9
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^	<13.1	<8.37	<20.1	<13.2	<11.9
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^	63.2	26.2	51.7	41.6	31.6
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^	<19.6	<12.6	<30.2	<19.7	<17.8
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^	214	119	650	188	161
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^	<13.1	<8.37	<20.1	<13.2	<11.9
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^	<13.1	<8.37	<20.1	<13.2	<11.9
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^	13.6	<8.37	64.8	14.4	<11.9
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^	158	94.5	527	137	146
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^	59.2	26.2	56.6	43.7	<17.8
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^	222	147	497	141	289
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^	76.0	49.6	147	<32.9	57.8
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^	146	97.0	346	113	229
PAHMSUS	Acenaphthene	0.08 mg/kg	M^	<0.26	<0.17	<0.40	<0.26	<0.24
	Acenaphthylene	0.08 mg/kg	U^	<0.26	<0.17	<0.40	<0.26	<0.24
	Anthracene	0.08 mg/kg	U^	<0.26	<0.17	<0.40	<0.26	<0.24
	Benzo[a]anthracene	0.08 mg/kg	M^	0.52	0.42	<0.40	0.74	0.53
	Benzo[a]pyrene	0.08 mg/kg	M^	0.61* B	0.42* B	<0.40* B	0.73* B	0.47
	Benzo[b]fluoranthene	0.08 mg/kg	M^	0.95	0.65	0.52	1.11	0.79
	Benzo[g,h,i]perylene	0.08 mg/kg	M^	0.37	0.25	<0.40	0.42	0.33
	Benzo[k]fluoranthene	0.08 mg/kg	M^	0.31	0.20	<0.40	0.37	0.30
	Chrysene	0.08 mg/kg	M^	0.46	0.36	<0.40	0.60	0.48
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^	<0.26	<0.17	<0.40	<0.26	<0.24
	Fluoranthene	0.08 mg/kg	M^	0.75	0.57	0.48	1.11	0.84
	Fluorene	0.08 mg/kg	M^	<0.26	<0.17	<0.40	<0.26	<0.24
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^	0.42	0.29	<0.40	0.48	0.40
	Naphthalene	0.08 mg/kg	M^	<0.26	<0.17	<0.40	<0.26	<0.24
	Phenanthrene	0.08 mg/kg	M^	0.29	0.23	<0.40	0.56	0.34
	Pyrene	0.08 mg/kg	M^	0.53	0.39	<0.40	0.76	0.61

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-016	25083916-017	25083916-018	25083916-019	25083916-020
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M16	M17	M18	M19	M20
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		3.53	2.50	2.93	4.30	3.20
	Total PAH 16	1.28 mg/kg	U^		6.79	4.78	6.62	8.46	6.50
SUB022	Total Nitrogen as N	0.08 %	U		0.57*	0.33*	0.82*	0.56*	0.49*
Grid Reference	Eastings	-	N		319137	318855	318587	318302	318020
	Northings	-	N		219223	219323	219381	219474	219570

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-021	25083916-022	25083916-023	25083916-024	25083916-025
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M21	M22	M23	M24	M25
CLANDPREP	Total Moisture at 35°C	0.1 %	N		67.0	64.0	69.8	65.5	71.4
	Major Constituents	-	N		SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N		None	None	None	None	None
	Miscellaneous Constituents	-	N		Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^		7.2	7.2	7.2	7.2	7.1
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^		113	108	145	113	120
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^		2.0	0.8	1.6	2.8	1.2
WSLM59	Total Organic Carbon	0.02 % m/m	U^		6.30	6.26	10.6	9.53	6.22
WSLM59	Soil Organic Matter	0.04 % m/m	U^		10.9	10.8	18.2	16.4	10.7
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^		5.7	3.3	2.2	4.4	2.9
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^		5190	4700	6500	5800	6200
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^		2.60	3.60	<1.66	1.70	2.90
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^		47.5	68.9	133	98.1	129
ISEFSS	Fluoride as F	0.2 mg/kg	U^		<0.4 D	<0.2	<0.4 D	0.2	<0.4 D
SFAPI	Total Cyanide	0.5 mg/kg	M^		<1.5	<1.4	<1.7	<1.5	<1.8
SFAPI	Phenol Index	0.5 mg/kg	U^		<1.5	<1.4	<1.7	<1.5	<1.8
SFAPI	Sulphide as S	0.5 mg/kg	N^		5.2	3.6	1.7	4.8	5.6
WSLM59	Sulphur as S	0.005 % m/m	N^		0.073	0.065	0.079	0.079	0.090
ICPMSS	Arsenic as As	0.3 mg/kg	M^		3.7	3.5	4.3	4.0	4.2
ICPSOIL	Barium as Ba	0.5 mg/kg	M^		167	146	172	178	215
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^		0.6	0.5	0.7	0.7	0.7
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^		19.7	17.9	19.0	19.6	25.9
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^		0.2	0.2	<0.1	0.2	0.3
ICPMSS	Copper as Cu	1.6 mg/kg	M^		20.6	17.8	22.2	21.9	24.8
ICPMSS	Lead as Pb	0.7 mg/kg	M^		27.0	25.6	32.9	35.9	35.5
ICPMSS	Mercury as Hg	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^		20.7	19.2	19.6	20.9	25.4
ICPMSS	Selenium as Se	0.5 mg/kg	M^		0.7	0.6	1.1	1.0	1.2
ICPSOIL	Sodium as Na	30 mg/kg	U^		183	181	238	206	225
ICPMSS	Zinc as Zn	16 mg/kg	M^		90.1	85.9	99.9	108.5	119.1
ICPBOR	Boron as B	0.5 mg/kg	M^		<0.5	0.8	0.9	0.8	0.9
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^		191	172	496	196	222
	Potassium as K by Mass	10 mg/kg	N^		118	98	287	116	136
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^		<30	<28	<33	<29	<35
	Toluene (HS_1D_AR)	5 µg/kg	M^		<15	<14	<17	<15	<18
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^		<15	<14	<17	<15	<18
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^		<30	<28	<33	<29	<35
	o-Xylene (HS_1D_AR)	5 µg/kg	M^		<15	<14	<17	<15	<18
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.606	<0.556	<0.662	<0.580	<0.699
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.606	<0.556	<0.662	<0.580	<0.699
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.606	<0.556	<0.662	<0.580	<0.699
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.606	<0.556	<0.662	<0.580	<0.699
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.606	<0.556	<0.662	<0.580	<0.699
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^		<0.030	<0.028	<0.033	<0.029	<0.035
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^		<0.015	<0.014	<0.017	<0.015	<0.018
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^		<0.061	<0.056	<0.067	<0.059	<0.071
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^		<60.6	87.7	<66.2	<58.0	<69.9
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<12.1	<11.1	<13.2	<11.6	<14.0
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<12.1	<11.1	<13.2	<11.6	<14.0
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<12.1	14.5	<13.2	<11.6	<14.0
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^		35.5	58.6	<33.1	<29.0	48.4
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^		<18.2	<16.7	<19.9	<17.4	<21.0
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^		128	135	<66.2	180	365
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<12.1	<11.1	<13.2	<11.6	<14.0
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<12.1	<11.1	<13.2	<11.6	23.1
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<12.1	<11.1	<13.2	<11.6	25.5
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^		120	119	34.6	153	275
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^		<18.2	<16.7	<19.9	24.2	32.6
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^		278	261	69.9	203	366
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		57.3	49.2	<33.1	40.7	42.4
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		217	210	55.4	159	323
PAHMSUS	Acenaphthene	0.08 mg/kg	M^		<0.24	<0.22	<0.27	<0.23	<0.28
	Acenaphthylene	0.08 mg/kg	U^		<0.24	<0.22	<0.27	<0.23	<0.28
	Anthracene	0.08 mg/kg	U^		<0.24	<0.22	<0.27	<0.23	<0.28
	Benzo[a]anthracene	0.08 mg/kg	M^		0.53	0.72	<0.27	0.34	0.46
	Benzo[a]pyrene	0.08 mg/kg	M^		0.46	0.64	<0.27	0.31	0.44
	Benzo[b]fluoranthene	0.08 mg/kg	M^		0.77	1.04	<0.27	0.51	0.79
	Benzo[g,h,i]perylene	0.08 mg/kg	M^		0.33	0.42	<0.27	<0.23	0.32
	Benzo[k]fluoranthene	0.08 mg/kg	M^		0.27	0.40	<0.27	<0.23	0.30
	Chrysene	0.08 mg/kg	M^		0.48	0.61	<0.27	0.42	0.42
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^		<0.24	<0.22	<0.27	<0.23	<0.28
	Fluoranthene	0.08 mg/kg	M^		0.83	1.19	<0.27	0.51	0.73
	Fluorene	0.08 mg/kg	M^		<0.24	<0.22	<0.27	<0.23	<0.28
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^		0.39	0.49	<0.27	0.27	0.37
	Naphthalene	0.08 mg/kg	M^		<0.24	<0.22	<0.27	<0.23	<0.28
	Phenanthrene	0.08 mg/kg	M^		0.34	0.63	<0.27	<0.23	0.35
	Pyrene	0.08 mg/kg	M^		0.60	0.82	<0.27	0.38	0.54

Project Number: 25083916

Client: Land & Water Services Ltd
Date Issued: 23/09/2025
Project Name: Land & Water Services Ltd - Mon & Brec 2025

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-021	25083916-022	25083916-023	25083916-024	25083916-025
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M21	M22	M23	M24	M25
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		3.14	4.13	<1.85	2.30	3.06
	Total PAH 16	1.28 mg/kg	U^		6.46	8.30	<4.24	4.81	6.40
SUB022	Total Nitrogen as N	0.08 %	U		0.52*	0.47*	0.65*	0.58*	0.62*
Grid Reference	Eastings	-	N		317737	317468	317155	316890	316572
	Northings	-	N		219665	219638	219585	219515	219484

Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-026	25083916-027	25083916-028	25083916-029	25083916-030
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M26	M27	M28	M29	M30
CLANDPREP	Total Moisture at 35°C	0.1 %	N		61.6	62.3	41.8	66.9	69.7
	Major Constituents	-	N		SILT	SILT	SILT	SILT	SILT
	Minor Constituents	-	N		None	None	Gravel	None	None
	Miscellaneous Constituents	-	N		Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter
	Colour of Material	-	N		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
PHSOIL	pH (2.5:1 extraction)	1 pH units	M^		7.1	7.2	7.1	7.1	7.1
TSCONW	Conductivity in 5:1 Water Extract	10 µS/cm	N^		104	177	55	113	155
ANC	Carbonate Content (%CaCO3)	0.2 % m/m	N^		1.6	6.4	3.6	3.1	2.8
WSLM59	Total Organic Carbon	0.02 % m/m	U^		1.08	10.8	2.05	6.11	16.0
WSLM59	Soil Organic Matter	0.04 % m/m	U^		1.86	18.7	3.54	10.5	27.6
KONENS.	Total Oxidised Nitrogen	0.4 mg/kg	N^		3.8	2.3	2.1	4.2	4.1
TKNCALC	Kjeldahl Nitrogen as N	0.4 mg/kg	N^		5200	6200	1900	4800	8000
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	0.5 mg/kg	M^		1.50	2.40	1.10	1.80	2.20
WSLM60	Extractable Phosphorus as P by Mass	2 mg/kg	U^		68.4	91.1	27.6	90.9	118
ISEFSS	Fluoride as F	0.2 mg/kg	U^		<0.2	<1.0 D	0.4	<1.0 D	<1.0 D
SFAPI	Total Cyanide	0.5 mg/kg	M^		<1.3	<1.3	<0.9	<1.5	<1.7
SFAPI	Phenol Index	0.5 mg/kg	U^		<1.3	<1.3	<0.9	<1.5	<1.7
SFAPI	Sulphide as S	0.5 mg/kg	N^		3.7	5.5	1.8	3.2	11.5
WSLM59	Sulphur as S	0.005 % m/m	N^		0.078	0.119	0.041	0.080	0.141
ICPMSS	Arsenic as As	0.3 mg/kg	M^		3.7	4.8	2.5	4.2	7.2
ICPSOIL	Barium as Ba	0.5 mg/kg	M^		162	156	100	200	214
ICPMSS	Cadmium as Cd	0.2 mg/kg	M^		0.6	0.7	0.3	0.7	0.7
ICPMSS	Total Chromium as Cr	1.2 mg/kg	M^		17.6	13.5	17.5	25.7	17.3
KONENS	Chromium (VI) as Cr	0.1 mg/kg	N^		0.2	0.2	<0.1	0.2	0.2
ICPMSS	Copper as Cu	1.6 mg/kg	M^		18.5	16.3	11.0	21.9	20.1
ICPMSS	Lead as Pb	0.7 mg/kg	M^		24.6	23.6	15.4	30.8	28.2
ICPMSS	Mercury as Hg	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Molybdenum as Mo	0.5 mg/kg	M^		<0.5	<0.5	<0.5	<0.5	<0.5
ICPMSS	Nickel as Ni	2 mg/kg	M^		19.3	15.5	20.0	25.7	20.0
ICPMSS	Selenium as Se	0.5 mg/kg	M^		0.8	0.6	<0.5	0.7	0.7
ICPSOIL	Sodium as Na	30 mg/kg	U^		178	247	99	189	318
ICPMSS	Zinc as Zn	16 mg/kg	M^		94.0	92.6	61.6	109.1	111.9
ICPBOR	Boron as B	0.5 mg/kg	M^		0.8	1.0	<0.5	0.6	0.8
ICPEXCH	Magnesium as Mg by Mass	10 mg/kg	N^		177	225	94	186	292
	Potassium as K by Mass	10 mg/kg	N^		102	112	56	114	147
BTEXHSA	Benzene (HS_1D_AR)	10 µg/kg	M^		<26	<27	<17	<30	<33
	Toluene (HS_1D_AR)	5 µg/kg	M^		<13	<13	<9	<15	<17
	Ethylbenzene (HS_1D_AR)	5 µg/kg	M^		<13	<13	<9	<15	<17
	m/p-Xylene (HS_1D_AR)	10 µg/kg	M^		<26	<27	<17	<30	<33
	o-Xylene (HS_1D_AR)	5 µg/kg	M^		<13	<13	<9	<15	<17
GROHSA	>C6-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.521	<0.531	<0.344	<0.604	<0.660
GROHSA/BTEXHSA	Total GRO C5-C10 (HS_1D_Total)	0.2 mg/kg	M^		<0.521	<0.531	<0.344	<0.604	<0.660
	C5-C6 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.521	<0.531	<0.344	<0.604	<0.660
	>C6-C8 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.521	<0.531	<0.344	<0.604	<0.660
	>C8-C10 Aliphatic (HS_1D_AL)	0.2 mg/kg	M^		<0.521	<0.531	<0.344	<0.604	<0.660
	C5-C7 Aromatic (HS_1D_AR)	0.01 mg/kg	M^		<0.026	<0.027	<0.017	<0.030	<0.033
	>C7-C8 Aromatic (HS_1D_AR)	0.005 mg/kg	M^		<0.013	<0.013	<0.009	<0.015	<0.017
	>C8-C10 Aromatic (HS_1D_AR)	0.02 mg/kg	M^		<0.052	<0.053	<0.035	<0.060	<0.067
TPHFIDUS (Aliphatic)	Total TPH >C8-C40 (Aliphatic) (EH_CU_1D_AL)	20 mg/kg	U^		<52.1	<53.1	<34.4	<60.4	<66.0
	>C10-C12 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<10.4	<10.6	<6.87	<12.1	<13.2
	>C12-C16 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<10.4	<10.6	<6.87	<12.1	<13.2
	>C16-C21 (Aliphatic) (EH_CU_1D_AL)	4 mg/kg	U^		<10.4	<10.6	<6.87	<12.1	<13.2
	>C21-C35 (Aliphatic) (EH_CU_1D_AL)	10 mg/kg	U^		34.0	<26.5	<17.2	31.1	37.0
	>C35-C44 (Aliphatic) (EH_CU_1D_AL)	6 mg/kg	N^		<15.6	<15.9	<10.3	<18.1	<19.8
TPHFIDUS (Aromatic)	Total TPH >C8-C40 (Aromatic) (EH_CU_1D_AR)	20 mg/kg	U^		181	165	60.7	93.6	433
	>C10-C12 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		<10.4	<10.6	<6.87	<12.1	<13.2
	>C12-C16 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		16.8	14.7	<6.87	<12.1	<13.2
	>C16-C21 (Aromatic) (EH_CU_1D_AR)	4 mg/kg	U^		19.7	16.7	<6.87	<12.1	<13.2
	>C21-C35 (Aromatic) (EH_CU_1D_AR)	10 mg/kg	U^		118	114	56.2	87.2	414
	>C35-C44 (Aromatic) (EH_CU_1D_AR)	6 mg/kg	N^		20.8	<15.9	<10.3	<18.1	<19.8
TPHFIDUS (SCU)	Total TPH >C8-C40 (SCU) (EH_CU_1D_Total)	20 mg/kg	N^		196	190	113	237	548
	>C10-C25 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		44.7	44.6	19.7	56.3	60.7
	>C25-C40 (SCU) (EH_CU_1D_Total)	10 mg/kg	N^		149	143	93.4	179	486
PAHMSUS	Acenaphthene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	<0.24	<0.26
	Acenaphthylene	0.08 mg/kg	U^		<0.21	<0.21	<0.14	<0.24	<0.26
	Anthracene	0.08 mg/kg	U^		<0.21	<0.21	<0.14	<0.24	<0.26
	Benzo[a]anthracene	0.08 mg/kg	M^		0.34	0.22	0.17	0.62	0.33
	Benzo[a]pyrene	0.08 mg/kg	M^		0.32	<0.21	0.15	0.56	<0.26
	Benzo[b]fluoranthene	0.08 mg/kg	M^		0.55	0.30	0.29	0.89	0.42
	Benzo[g,h,i]perylene	0.08 mg/kg	M^		0.23	<0.21	<0.14	0.40	<0.26
	Benzo[k]fluoranthene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	0.34	<0.26
	Chrysene	0.08 mg/kg	M^		0.32	0.25	0.16	0.73	0.30
	Dibenzo[a,h]anthracene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	<0.24	<0.26
	Fluoranthene	0.08 mg/kg	M^		0.47	0.26	0.25	0.86	0.41
	Fluorene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	<0.24	<0.26
	Indeno[1,2,3-cd]pyrene	0.08 mg/kg	M^		0.28	<0.21	0.15	0.45	<0.26
	Naphthalene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	<0.24	<0.26
	Phenanthrene	0.08 mg/kg	M^		<0.21	<0.21	<0.14	0.38	<0.26
	Pyrene	0.08 mg/kg	M^		0.36	<0.21	0.18	0.65	0.42

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Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID:	25083916-026	25083916-027	25083916-028	25083916-029	25083916-030
				Sampling Date:	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00	19/08/2025 00:00
				Customer ID:	M26	M27	M28	M29	M30
PAHMSUS	Total 8 Oil PAHs	0.56 mg/kg	U^		2.23	1.61	1.20	3.83	2.09
	Total PAH 16	1.28 mg/kg	U^		4.52	3.57	2.60	7.32	4.77
SUB022	Total Nitrogen as N	0.08 %	U		0.52*	0.62*	0.19*	0.48*	0.80*
Grid Reference	Eastings	-	N		316304	316016	316017	315799	315790
	Northings	-	N		219568	219559	219821	219950	219999

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Deviating Sample Report

Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
M1	25083916-001	BTEXHSA						✓
M1	25083916-001	GROHSA						✓
M1	25083916-001	GROHSA/BTEXHSA						✓
M1	25083916-001	PHSOIL						✓
M1	25083916-001	SFAPI						✓
M2	25083916-002	BTEXHSA						✓
M2	25083916-002	GROHSA						✓
M2	25083916-002	GROHSA/BTEXHSA						✓
M2	25083916-002	PHSOIL						✓
M2	25083916-002	SFAPI						✓
M3	25083916-003	BTEXHSA						✓
M3	25083916-003	GROHSA						✓
M3	25083916-003	GROHSA/BTEXHSA						✓
M3	25083916-003	PHSOIL						✓
M3	25083916-003	SFAPI						✓
M4	25083916-004	BTEXHSA						✓
M4	25083916-004	GROHSA						✓
M4	25083916-004	GROHSA/BTEXHSA						✓
M4	25083916-004	PHSOIL						✓
M4	25083916-004	SFAPI						✓
M5	25083916-005	BTEXHSA						✓
M5	25083916-005	GROHSA						✓
M5	25083916-005	GROHSA/BTEXHSA						✓
M5	25083916-005	PHSOIL						✓
M5	25083916-005	SFAPI						✓
M6	25083916-006	BTEXHSA						✓
M6	25083916-006	GROHSA						✓
M6	25083916-006	GROHSA/BTEXHSA						✓
M6	25083916-006	PHSOIL						✓
M6	25083916-006	SFAPI						✓
M7	25083916-007	BTEXHSA						✓
M7	25083916-007	GROHSA						✓
M7	25083916-007	GROHSA/BTEXHSA						✓
M7	25083916-007	PHSOIL						✓

Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
M7	25083916-007	**SFAPI**						✓
M8	25083916-008	**BTEXHSA**						✓
M8	25083916-008	**GROHSA**						✓
M8	25083916-008	**GROHSA/BTEXHSA**						✓
M8	25083916-008	**PHSOIL**						✓
M8	25083916-008	**SFAPI**						✓
M9	25083916-009	**BTEXHSA**						✓
M9	25083916-009	**GROHSA**						✓
M9	25083916-009	**GROHSA/BTEXHSA**						✓
M9	25083916-009	**PHSOIL**						✓
M9	25083916-009	**SFAPI**						✓
M10	25083916-010	**BTEXHSA**						✓
M10	25083916-010	**GROHSA**						✓
M10	25083916-010	**GROHSA/BTEXHSA**						✓
M10	25083916-010	**PHSOIL**						✓
M10	25083916-010	**SFAPI**						✓
M11	25083916-011	**BTEXHSA**						✓
M11	25083916-011	**GROHSA**						✓
M11	25083916-011	**GROHSA/BTEXHSA**						✓
M11	25083916-011	**PHSOIL**						✓
M11	25083916-011	**SFAPI**						✓
M12	25083916-012	**BTEXHSA**						✓
M12	25083916-012	**GROHSA**						✓
M12	25083916-012	**GROHSA/BTEXHSA**						✓
M12	25083916-012	**PHSOIL**						✓
M12	25083916-012	**SFAPI**						✓
M13	25083916-013	**BTEXHSA**						✓
M13	25083916-013	**GROHSA**						✓
M13	25083916-013	**GROHSA/BTEXHSA**						✓
M13	25083916-013	**PHSOIL**						✓
M13	25083916-013	**SFAPI**						✓
M14	25083916-014	**BTEXHSA**						✓
M14	25083916-014	**GROHSA**						✓
M14	25083916-014	**GROHSA/BTEXHSA**						✓
M14	25083916-014	**PHSOIL**						✓

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Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
M14	25083916-014	SFAPI						✓
M15	25083916-015	BTEXHSA			✓			✓
M15	25083916-015	GROHSA			✓			✓
M15	25083916-015	GROHSA/BTEXHSA						✓
M15	25083916-015	PHSOIL						✓
M15	25083916-015	SFAPI						✓
M16	25083916-016	BTEXHSA						✓
M16	25083916-016	GROHSA						✓
M16	25083916-016	GROHSA/BTEXHSA						✓
M16	25083916-016	PHSOIL						✓
M16	25083916-016	SFAPI						✓
M17	25083916-017	BTEXHSA						✓
M17	25083916-017	GROHSA						✓
M17	25083916-017	GROHSA/BTEXHSA						✓
M17	25083916-017	PHSOIL						✓
M17	25083916-017	SFAPI						✓
M18	25083916-018	BTEXHSA						✓
M18	25083916-018	GROHSA						✓
M18	25083916-018	GROHSA/BTEXHSA						✓
M18	25083916-018	PHSOIL						✓
M18	25083916-018	SFAPI						✓
M19	25083916-019	BTEXHSA						✓
M19	25083916-019	GROHSA						✓
M19	25083916-019	GROHSA/BTEXHSA						✓
M19	25083916-019	PHSOIL						✓
M19	25083916-019	SFAPI						✓
M20	25083916-020	BTEXHSA						✓
M20	25083916-020	GROHSA						✓
M20	25083916-020	GROHSA/BTEXHSA						✓
M20	25083916-020	PHSOIL						✓
M20	25083916-020	SFAPI						✓
M21	25083916-021	BTEXHSA						✓
M21	25083916-021	GROHSA						✓
M21	25083916-021	GROHSA/BTEXHSA						✓
M21	25083916-021	PHSOIL						✓

Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
M21	25083916-021	SFAPI						✓
M22	25083916-022	BTEXHSA						✓
M22	25083916-022	GROHSA						✓
M22	25083916-022	GROHSA/BTEXHSA						✓
M22	25083916-022	PHSOIL						✓
M22	25083916-022	SFAPI						✓
M23	25083916-023	BTEXHSA						✓
M23	25083916-023	GROHSA						✓
M23	25083916-023	GROHSA/BTEXHSA						✓
M23	25083916-023	PHSOIL						✓
M23	25083916-023	SFAPI						✓
M24	25083916-024	BTEXHSA						✓
M24	25083916-024	GROHSA						✓
M24	25083916-024	GROHSA/BTEXHSA						✓
M24	25083916-024	PHSOIL						✓
M24	25083916-024	SFAPI						✓
M25	25083916-025	BTEXHSA						✓
M25	25083916-025	GROHSA						✓
M25	25083916-025	GROHSA/BTEXHSA						✓
M25	25083916-025	PHSOIL						✓
M25	25083916-025	SFAPI						✓
M26	25083916-026	BTEXHSA						✓
M26	25083916-026	GROHSA						✓
M26	25083916-026	GROHSA/BTEXHSA						✓
M26	25083916-026	PHSOIL						✓
M26	25083916-026	SFAPI						✓
M27	25083916-027	BTEXHSA						✓
M27	25083916-027	GROHSA						✓
M27	25083916-027	GROHSA/BTEXHSA						✓
M27	25083916-027	PHSOIL						✓
M27	25083916-027	SFAPI						✓
M28	25083916-028	BTEXHSA						✓
M28	25083916-028	GROHSA						✓
M28	25083916-028	GROHSA/BTEXHSA						✓
M28	25083916-028	PHSOIL						✓

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Sample Reference	Text ID	Method Code	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time
M28	25083916-028	**SFAPI**						✓
M29	25083916-029	**BTEXHSA**						✓
M29	25083916-029	**GROHSA**						✓
M29	25083916-029	**GROHSA/BTEXHSA**						✓
M29	25083916-029	**PHSOIL**						✓
M29	25083916-029	**SFAPI**						✓
M30	25083916-030	**BTEXHSA**						✓
M30	25083916-030	**GROHSA**						✓
M30	25083916-030	**GROHSA/BTEXHSA**						✓
M30	25083916-030	**PHSOIL**						✓
M30	25083916-030	**SFAPI**						✓

Analysis Method

Method Code	Method Description	Analysis Method
AMMAR	Ammoniacal Nitrogen (Exchangeable) as N	As Received
ANC	ANC: Acid Neutralisation Capacity as CaCO3	Air Dried & Ground
BTEXHSA	BTEX by GCFID	As Received
CLANDPREP	CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
Grid Reference	Custom Report- Grid Reference (Eastings-Northings)	
GROHSA	GRO (>C6-C10) Total	As Received
GROHSA/BTEXHSA	GRO CWG UK (C5-C10) Ali/Aro Split	As Received
ICPBOR	Boron (Water Soluble) by ICPOES	Air Dried & Ground
ICPEXCH	Extractable Magnesium by ICPOES (BS3882)	Air Dried & Ground
ICPEXCH	Extractable Potassium by ICPOES (BS3882)	Air Dried & Ground
ICPMSS	Arsenic in Solids by ICPMS	Air Dried & Ground
ICPMSS	Cadmium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Chromium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Copper in Solids by ICPMS	Air Dried & Ground
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
ICPMSS	Mercury in Solids by ICPMS	Air Dried & Ground
ICPMSS	Molybdenum in Solids by ICPMS	Air Dried & Ground
ICPMSS	Nickel in Solids by ICPMS	Air Dried & Ground
ICPMSS	Selenium in Solids by ICPMS	Air Dried & Ground
ICPMSS	Zinc in Solids by ICPMS	Air Dried & Ground
ICPSOIL	Barium in Solids by ICPOES	Air Dried & Ground
ICPSOIL	Sodium in Solids by ICPOES	Air Dried & Ground
ISEFSS	Fluoride (2:1) by ISE	Air Dried & Ground
KONENS	Chromium VI (Hexavalent) by Colorimetry	Air Dried & Ground
KONENS.	TON: Total Oxidised Nitrogen	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS with Total Oil 8	As Received
PHSOIL	pH (2.5:1)	As Received
SFAPI	Cyanide (Total) by SFA	As Received
SFAPI	Phenol Index (Total) by SFA	As Received
SFAPI	Sulphide by SFA	As Received

SUB022	Nitrogen (Total)	Air Dried & Ground
TKNCALC	Nitrogen Kjeldahl (Calc)	Air Dried & Ground
TPHFIDUS (Aliphatic)	TPH (CWG UK) Aliphatic Split with Carbon Banding	As Received
TPHFIDUS (Aromatic)	TPH (CWG UK) Aromatic Split with Carbon Banding	As Received
TPHFIDUS (SCU)	TPH SCU Banded (>C10-C25) and (>C25-C40)	As Received
TSCONW	Electrical Conductivity (5:1)	Air Dried & Ground
WSLM59	SOM: Soil Organic Matter (%) (Calc)	Air Dried & Ground
WSLM59	TOC: Total Organic Carbon	Air Dried & Ground
WSLM59	Total Sulphur	Air Dried & Ground
WSLM60	Extractable Phosphorus	Air Dried & Ground

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

Letter	Note
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

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Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 35° C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis