



Final Report

Report No.: 25-08206-1

Initial Date of Issue: 26-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 11-Mar-2025

Order No.: S3240

Date Instructed: 11-Mar-2025

No. of Samples: 20

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 26-Mar-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944811	1944812	1944813	1944814	1944815	1944816	1944817			
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-01G	TSP20-02G	TSP20-03G	TSP20-04G	TSP20-05G	TSP20-06G	TSP20-07G			
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.80	1.85	1.75	1.80	1.75	1.65	1.70			
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	16	8.9	16	15	15	16	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Roots, Stones and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	2.6	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	< 1.0	4.9	23	14	7.7	29
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	73	24	31	86	68	44	120
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	44	16	19	39	28	42	53
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	140	42	55	150	110	94	200
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	42	55	150	110	94	200
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.4	< 1.0	< 1.0	4.4	3.8	3.2	6.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	38	16	20	49	29	26	51
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	64	16	13	71	40	51	100
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	71	< 1.0	1.2	76	4.2	29	97
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100	32	33	120	73	80	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	180	32	34	200	78	110	260
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	240	74	89	270	190	170	360
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	310	74	90	350	190	200	450
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944811	1944812	1944813	1944814	1944815	1944816	1944817
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-01G	TSP20-02G	TSP20-03G	TSP20-04G	TSP20-05G	TSP20-06G	TSP20-07G
		Sample Location:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.80	1.85	1.75	1.80	1.75	1.65	1.70
		Date Sampled:				06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.25	0.23	0.27	0.25	0.22	0.29	0.19
Acenaphthylene		N	2800	mg/kg	0.10	0.12	< 0.10	< 0.10	0.14	0.11	0.21	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.20	< 0.10	< 0.10	0.11	< 0.10	0.12	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	3.1	0.48	0.34	0.65	0.86	7.4	0.43
Anthracene		M	2800	mg/kg	0.10	0.96	0.16	0.13	0.23	0.25	1.9	0.18
Fluoranthene		M	2800	mg/kg	0.10	6.1	0.90	0.99	1.7	2.0	14	1.2
Pyrene		M	2800	mg/kg	0.10	6.1	0.88	0.99	1.7	2.0	14	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.3	0.55	0.47	0.85	0.81	5.2	0.60
Chrysene		M	2800	mg/kg	0.10	2.2	0.52	0.38	0.82	0.70	4.9	0.59
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.1	0.92	0.94	1.5	1.6	6.6	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.2	0.35	0.30	0.49	0.44	2.4	0.33
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.5	0.87	0.69	1.3	1.2	5.0	0.81
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.8	0.61	0.57	0.76	1.1	3.3	0.68
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.25	< 0.10	< 0.10	0.11	< 0.10	0.53	0.12
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	0.59	0.56	0.97	0.95	3.0	0.66
Total Of 16 PAH's		N	2800	mg/kg	2.0	32	7.1	6.6	12	12	69	8.1

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08205	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944818	1944819	1944820	1944821	1944822	1944823	1944824		
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-08G	TSP20-09G	TSP20-10G	TSP20-11G	TSP20-12G	TSP20-13G	TSP20-14G		
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.80	1.80	1.80	1.70	1.75	1.85	1.70		
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	15	16	16	15	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.1	4.4	9.2	23	42	8.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	18	28	34	60	32	110
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	7.3	32	29	43	21	65
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	27	64	74	130	62	220
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	27	64	84	130	62	220
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	5.2	< 1.0	9.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	15	28	29	81	21	68
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.0	51	42	94	38	110
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.9	35	12	96	11	75
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	23	79	72	180	62	180
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	26	110	84	280	73	260
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	50	140	150	310	120	400
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	53	180	170	400	130	480
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944818	1944819	1944820	1944821	1944822	1944823	1944824
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-08G	TSP20-09G	TSP20-10G	TSP20-11G	TSP20-12G	TSP20-13G	TSP20-14G
		Sample Location:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.80	1.80	1.80	1.70	1.75	1.85	1.70
		Date Sampled:				06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.29	0.26	0.24	< 0.10	0.22	0.21	0.19
Acenaphthylene		N	2800	mg/kg	0.10	0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.60	2.0	0.46	0.71	0.80	0.40	0.43
Anthracene		M	2800	mg/kg	0.10	0.20	0.90	0.25	0.45	0.19	0.16	0.23
Fluoranthene		M	2800	mg/kg	0.10	1.5	11	2.0	1.9	1.2	1.1	1.2
Pyrene		M	2800	mg/kg	0.10	1.5	11	1.7	1.7	1.0	0.96	1.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.74	6.8	1.1	1.1	0.57	0.51	0.68
Chrysene		M	2800	mg/kg	0.10	0.61	6.8	0.88	1.1	0.54	0.39	0.55
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	8.1	1.7	1.8	0.92	0.91	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.41	3.0	0.58	0.78	0.34	0.29	0.48
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.99	6.4	1.5	1.6	0.86	0.69	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.80	3.5	0.97	1.3	0.66	0.55	0.87
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.14	0.72	0.20	0.38	0.11	0.11	0.16
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.80	3.2	1.1	1.3	0.66	0.66	0.89
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	64	13	14	8.1	6.9	9.2

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944825	1944826	1944827	1944828	1944829	1944830	
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-15G	TSP20-16G	TSP20-17G	TSP20-18G	TSP20-19G	TSP20-20G	
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	1.80	1.75	1.75	1.85	1.80	1.70	
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	15	15	15	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.2	< 2.0	< 2.0	5.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	18	16	17	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	53	68	55	28
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	37	32	35	22
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	120	110	56
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	120	110	56
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	9.1	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	13	4.3	5.1	1.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	44	38	29
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	53	62	54	39
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	18	43	22	7.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	110	110	97	69
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	130	150	120	76
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	230	230	200	120
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	240	270	230	130
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206	25-08206
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944825	1944826	1944827	1944828	1944829	1944830	1944830
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-15G	TSP20-16G	TSP20-17G	TSP20-18G	TSP20-19G	TSP20-20G	TSP20-20G
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.80	1.75	1.75	1.85	1.80	1.70	1.70
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Naphthalene		M	2800	mg/kg	0.10	0.20	0.20	0.20	0.24
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.43	0.76	0.48	0.57
Anthracene		M	2800	mg/kg	0.10	0.18	0.28	0.22	0.26
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.7	1.8	1.6
Pyrene		M	2800	mg/kg	0.10	1.2	1.4	1.5	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.79	0.81	0.85	0.78
Chrysene		M	2800	mg/kg	0.10	0.76	0.69	0.65	0.73
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	1.4	1.3	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.52	0.48	0.46	0.42
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	1.1	1.1	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.88	0.92	0.84	0.91
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.16	0.16	0.17	0.15
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	0.97	0.83	0.95
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	11	10	10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Treated Stockpile Reuse Validation Form 019 – TSP21**Stockpile ID**

Stockpile ID: TSP21

Material Volume:

1,406 m³

Validation Samples Included per Round

15 No.

Tested Location: Treatment Area 02

Stockpile Creation Date: 16/10/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 8 of 10)	Sample Date: 12/02/2025	Report Number & Date: 25-05319 – 27/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 9 of 10)	Sample Date: 19/02/2025	Report Number & Date: 25-06188 06/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 10 of 10)	Sample Date: 06/03/2025	Report Number & Date: 25-08211 – 21/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05319

Report Date: 27/02/2025

Sample ID (Sample Names): TSP21-01E → TSP21-15E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 331 mg/kg Overall, 8th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse. Please note, from both round 1 and 2, both have the label suffix of round "E", however these are separate rounds, with samples taken from the 12th and 19th February respectively

Passing Round 2

Report Number: 25-06188

Report Date: 06/03/2025

Sample ID (Sample Names): TSP21-01E → TSP21-15E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 278 mg/kg Overall, 9th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-08211

Report Date: 21/03/2025

Sample ID (Sample Names): TSP21-01F → TSP21-15F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 356 mg/kg. Overall, 10th round of sampling undertaken from the treated Stockpile. No exceedances of total TPH criteria was noted during this testing round. A single exceedance was noted within the C10-C12 aromatic test band, seen at TSP21-15F (140 mg/kg), which was above the suitability criteria of 48.3 mg/kg. The remaining 14No. testing location results for the remaining material at the same fraction were seen to be at a level below the laboratory's limit of detection (0.1 mg/kg) as with the 30No. banded results from the directly preceding rounds. Of the 720 chemical tests for banded and total TPH samples within this final validation round, there is only one test which presents a result above the remediation reuse criteria.

Statistical analysis on the single exceeding result the round's results within the C10-C12 band provide a result of at least 95% confidence range, although due to the limited number of samples (15No.), Sanctus still deem this statistical review as suitable, as the produced sample mean concentration is 9.43 mg/kg and the upper confidence limit of 50.08 mg/kg is above the site reuse criteria of 48.30 mg/kg. If the equivalent conservative dilution value for the Firth of Clyde (a multiplication factor of x15, as per table 8-2 within the Remediation Strategy), the RTC soil protection value of 724.5 mg/kg would apply for the Aromatic band (C10-C12). For the band in question, the detected level of 140 mg/kg is below the saturation limit (283mg/kg) and as such would not indicate free product sheen.

The agreed site assessment criteria (SAC) for aromatic TPH, C10-C12 (48.3 mg/kg) is derived from assessment of the dissolved phase component within the soil for the Protection for the Water Environment. For the C10-C12 aromatic banding, the exceeding soil sample value (140 mg/kg in TSP21) is significantly below the solubility limit of 899mg/kg, confirming no ongoing risk posed by the soil and that sheen or free phase product would be present within this soil sample. This solubility principle is understood to be recognised in industry, above which, free phase product would become apparent. Further the soil sample (soil sample TSP21-15F), represents ~100m³ of TSP21, and relates to a material fraction of 7.11% of the overall stockpile TSP21 and only 0.31% of all bioremediated soils treated by Sanctus. The details of the reuse derivation and solubility principle is discussed in detail following a detailed quantitative risk assessment included within section 8 of the Ardrossan Remediation Specification Rev E.

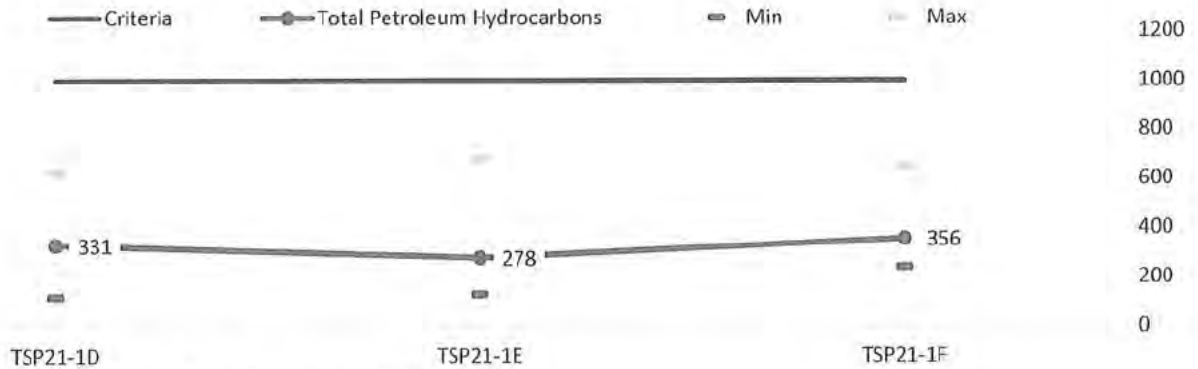
Whilst the bioremediation trials (discussed within section 14.13) the chosen additive was proven to improve TPH degradation over and above natural degradation. The portion of TPH degradation directly associated with natural attenuation is not required as part of the validation of the soils and as such has not been discussed.

Sanctus do not believe that, at this time, this material segregation and resampling would be of economic or program benefit to the project. As such, Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

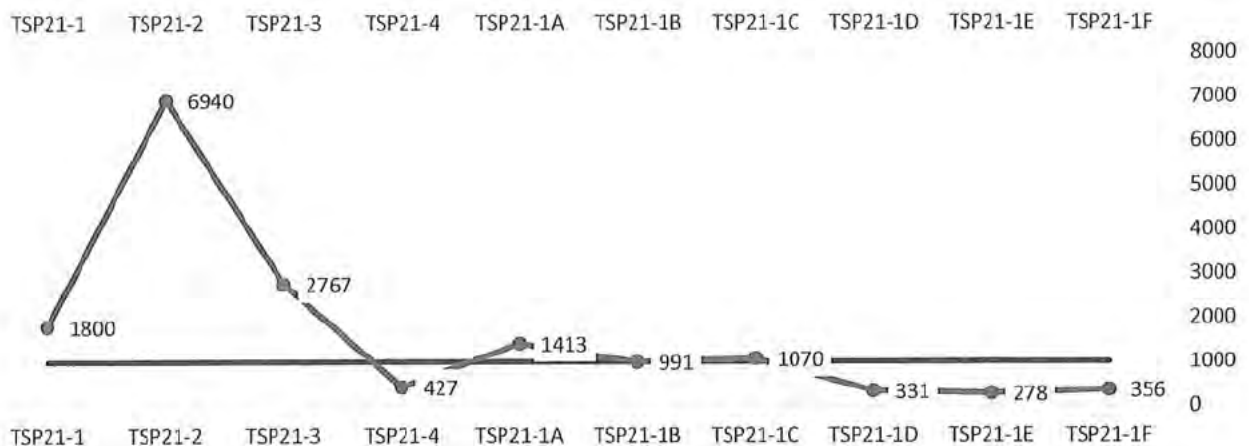
Data Trend for Total TPH levels:

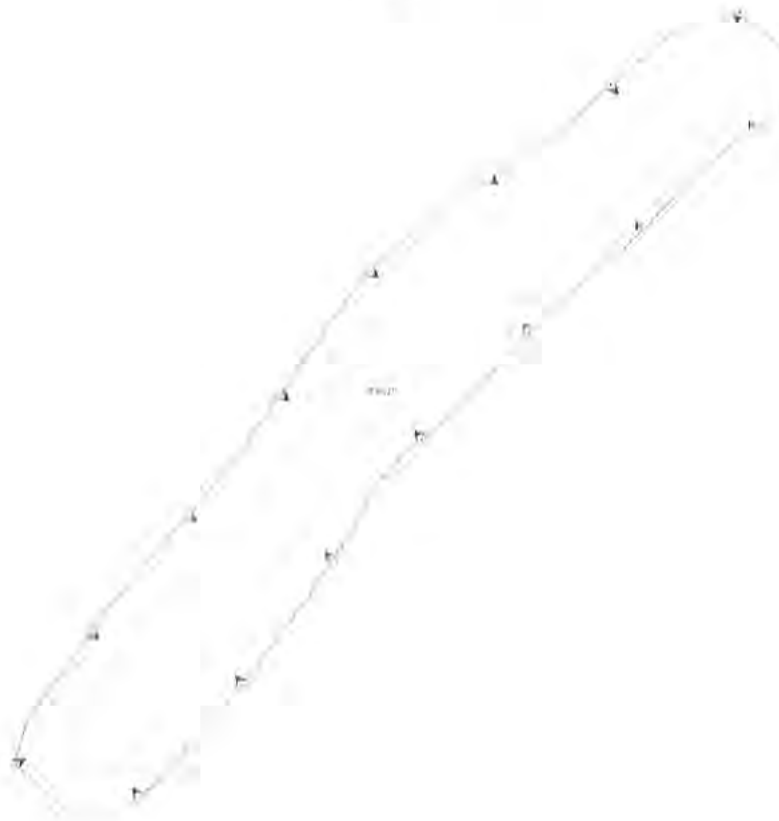
Min & Max Soil Values for Total Petroleum Hydrocarbons

Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from October 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 80.2% when compared to the material's initial total TPH level (1,800 mg/kg (16th October 2024), and a 94.87% reduction when compared to the stockpiles' highest recorded average of 6,940 mg/kg (5th November 2024). Both initial averages were compared to the final round's average of 356 mg/kg (6th March 2025):

Soil Values for Total Petroleum Hydrocarbons





Treated Stockpile Sample Plan:

Sampling Strategy:

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, in the spirit of BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.

Ardrossan Site Code: S3240

Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with no exceedances of the accepted reuse criteria for the total TPH band. A statistical insignificant number of exceedances (one exceedance as discussed in round 3's data) of the accepted reuse criteria are seen within the banded Hydrocarbon fractions and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME:

POSITION: Senior Environmental Engineer

DATE: 03/06/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

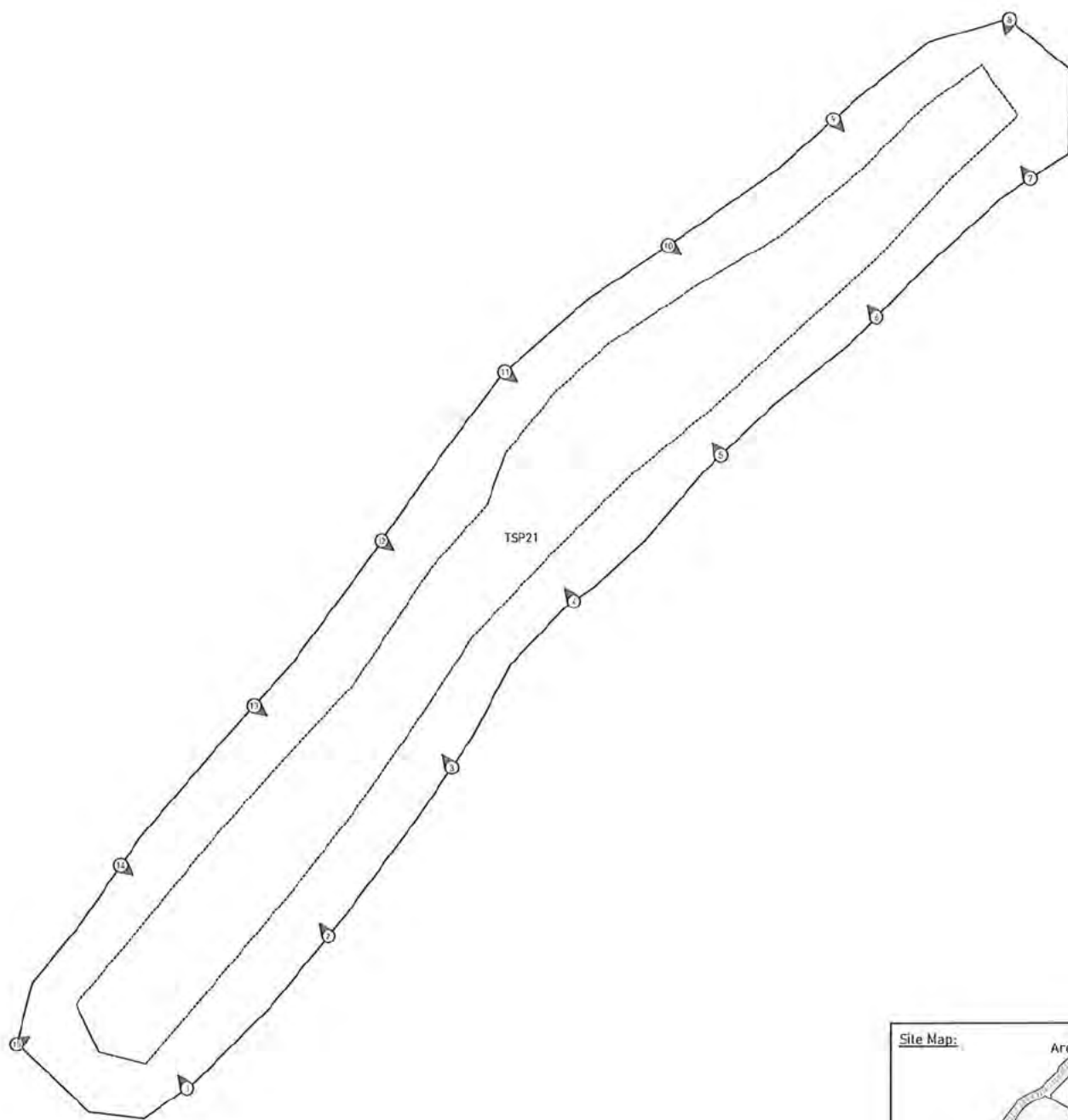
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 20 produced by Aird Group,
23/03/2020. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	11/03/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 21 Sample Location Plan

Contract No:
S3240

Drawn By:
JH

Drawing No:
D3240/117

QC Check By:
ARW

Scale @ A3:
1:250 / See Inset

Approved By:
ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C8	Aliphatic TPH >C8-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C16	Aliphatic TPH >C16-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C35-C55	Aromatic TPH >C5-C7	Aromatic TPH >C7-C8	Aromatic TPH >C8-C10	Aromatic TPH >C10-C12	Aromatic TPH >C12-C16	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35	Aromatic TPH >C35-C55
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LDD		10	0.02	0.02	0.05	1	2	8	8		0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000		140	290	7.34	48.3	173.47	540	1000	
TSP21-01D	12/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	26	77	76	180	< 0.05	< 0.05	< 0.05	< 1.0	7	26	33	65
TSP21-02D	12/02/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	27	69	62	160	< 0.05	< 0.05	< 0.05	< 1.0	5	29	37	71
TSP21-03D	12/02/2025	260	< 0.05	< 0.10	< 0.05	< 2.0	41	66	56	160	< 0.05	< 0.05	< 0.05	< 1.0	4	34	34	72
TSP21-04D	12/02/2025	400	< 0.05	< 0.10	< 0.05	< 2.0	49	120	110	280	< 0.05	< 0.05	< 0.05	< 1.0	6	34	56	95
TSP21-05D	12/02/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	40	110	100	250	< 0.05	< 0.05	< 0.05	< 1.0	4	34	59	98
TSP21-06D	12/02/2025	180	< 0.05	< 0.10	< 0.05	< 2.0	19	53	48	120	< 0.05	< 0.05	< 0.05	< 1.0	3	14	33	50
TSP21-07D	12/02/2025	380	< 0.05	< 0.10	< 0.05	< 2.0	47	120	97	260	< 0.05	< 0.05	< 0.05	< 1.0	5	32	54	91
TSP21-08D	12/02/2025	630	< 0.05	< 0.10	< 0.05	< 2.0	71	180	130	380	< 0.05	< 0.05	< 0.05	< 1.0	9	37	82	130
TSP21-09D	12/02/2025	350	< 0.05	< 0.10	< 0.05	< 2.0	27	120	73	220	< 0.05	< 0.05	< 0.05	< 1.0	8	41	44	93
TSP21-10D	12/02/2025	120	< 0.05	< 0.10	< 0.05	< 2.0	16	43	25	84	< 0.05	< 0.05	< 0.05	< 1.0	2	15	15	32
TSP21-11D	12/02/2025	410	< 0.05	< 0.10	< 0.05	< 2.0	52	140	96	280	< 0.05	< 0.05	< 0.05	< 1.0	5	32	58	95
TSP21-12D	12/02/2025	230	< 0.05	< 0.10	< 0.05	< 2.0	23	69	56	150	< 0.05	< 0.05	< 0.05	< 1.0	4	19	33	56
TSP21-13D	12/02/2025	220	< 0.05	< 0.10	< 0.05	< 2.0	18	73	51	140	< 0.05	< 0.05	< 0.05	< 1.0	7	14	29	51
TSP21-14D	12/02/2025	270	< 0.05	< 0.10	< 0.05	< 2.0	29	82	57	170	< 0.05	< 0.05	< 0.05	< 1.0	6	25	44	75
TSP21-15D	12/02/2025	590	< 0.05	< 0.10	< 0.05	6	61	170	120	360	< 0.05	< 0.05	< 0.05	< 1.0	16	48	93	160
TSP21-01E	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	21	41	37	100	< 0.05	< 0.05	< 0.05	< 1.0	7	48	27	81
TSP21-02E	19/02/2025	180	< 0.05	< 0.10	< 0.05	3	14	31	34	82	< 0.05	< 0.05	< 0.05	< 1.0	3	49	28	80
TSP21-03E	19/02/2025	260	< 0.05	< 0.10	< 0.05	3	19	43	16	83	< 0.05	< 0.05	< 0.05	< 1.0	9	45	86	120
TSP21-04E	19/02/2025	360	< 0.05	< 0.10	< 0.05	3	35	79	36	150	< 0.05	< 0.05	< 0.05	< 1.0	10	54	79	140
TSP21-05E	19/02/2025	130	< 0.05	< 0.10	< 0.05	3	13	19	18	54	< 0.05	< 0.05	< 0.05	< 1.0	2	31	33	67
TSP21-06E	19/02/2025	190	< 0.05	< 0.10	< 0.05	2	13	23	13	51	< 0.05	< 0.05	< 0.05	< 1.0	6	48	52	110
TSP21-07E	19/02/2025	680	< 0.05	< 0.10	< 0.05	8	59	61	9	140	< 0.05	< 0.05	< 0.05	< 1.0	35	230	150	410
TSP21-08E	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	16	35	22	75	< 0.05	< 0.05	< 0.05	< 1.0	7	47	51	100
TSP21-09E	19/02/2025	190	< 0.05	< 0.10	< 0.05	3	14	35	40	83	< 0.05	< 0.05	< 0.05	< 1.0	5	32	44	81
TSP21-10E	19/02/2025	380	< 0.05	< 0.10	< 0.05	3	27	64	38	130	< 0.05	< 0.05	< 0.05	< 1.0	7	55	83	160
TSP21-11E	19/02/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	16	34	23	74	< 0.05	< 0.05	< 0.05	< 1.0	6	41	44	91
TSP21-12E	19/02/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	10	25	24	60	< 0.05	< 0.05	< 0.05	< 1.0	4	28	37	88
TSP21-13E	19/02/2025	230	< 0.05	< 0.10	< 0.05	3	15	33	23	74	< 0.05	< 0.05	< 0.05	< 1.0	7	42	52	100
TSP21-14E	19/02/2025	410	< 0.05	< 0.10	< 0.05	4	29	65	30	130	< 0.05	< 0.05	< 0.05	< 1.0	7	71	93	170
TSP21-15E	19/02/2025	400	< 0.05	< 0.10	< 0.05	3	22	99	50	170	< 0.05	< 0.05	< 0.05	< 1.0	12	54	90	160
TSP21-01F	06/03/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	12	37	22	70	< 0.05	< 0.05	< 0.05	< 1.0	4	67	81	150
TSP21-02F	06/03/2025	240	< 0.05	< 0.10	< 0.05	< 2.0	14	40	43	88	< 0.05	< 0.05	< 0.05	< 1.0	3	37	58	98
TSP21-03F	06/03/2025	340	< 0.05	< 0.10	< 0.05	< 2.0	12	56	47	110	< 0.05	< 0.05	< 0.05	< 1.0	8	46	85	140
TSP21-04F	06/03/2025	420	< 0.05	< 0.10	< 0.05	< 2.0	24	95	53	170	< 0.05	< 0.05	< 0.05	< 1.0	10	72	110	190
TSP21-05F	06/03/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	8	45	43	95	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	48	90	140
TSP21-06F	06/03/2025	350	< 0.05	< 0.10	< 0.05	< 2.0	19	76	51	150	< 0.05	< 0.05	< 0.05	< 1.0	3	43	97	140
TSP21-07F	06/03/2025	620	< 0.05	< 0.10	< 0.05	< 2.0	13	6	11	30	< 0.05	< 0.05	< 0.05	< 1.0	25	160	180	360
TSP21-08F	06/03/2025	310	< 0.05	< 0.10	< 0.05	2	18	57	49	130	< 0.05	< 0.05	< 0.05	< 1.0	3	44	71	120
TSP21-09F	06/03/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	22	72	40	130	< 0.05	< 0.05	< 0.05	< 1.0	7	63	110	180
TSP21-10F	06/03/2025	260	< 0.05	< 0.10	< 0.05	< 2.0	19	48	42	110	< 0.05	< 0.05	< 0.05	< 1.0	7	36	59	100
TSP21-11F	06/03/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	20	55	45	120	< 0.05	< 0.05	< 0.05	< 1.0	5	40	61	110
TSP21-12F	06/03/2025	650	< 0.05	< 0.10	< 0.05	2	27	58	35	130	< 0.05	< 0.05	< 0.05	< 1.0	13	140	230	380
TSP21-13F	06/03/2025	240	< 0.05	< 0.10	< 0.05	3	21	62	49	130	< 0.05	< 0.05	< 0.05	< 1.0	8	28	54	88
TSP21-14F	06/03/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	16	56	33	110	< 0.05	< 0.05	< 0.05	< 1.0	4	39	82	120
TSP21-15F	06/03/2025	420	< 0.05	< 0.10	< 0.05	13	13	48	25	100	< 0.05	< 0.05	< 0.05	140	17	62	56	300



Final Report

Report No.: 25-05319-1

Initial Date of Issue: 27-Feb-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 14-Feb-2025

Order No.: S3240

Date Instructed: 14-Feb-2025

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 20-Feb-2025

Date Approved: 27-Feb-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932941	1932942	1932943	1932944	1932945	1932946	1932947	1932948	1932949	1932950
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-01E	TSP21-02E	TSP21-03E	TSP21-04E	TSP21-05E	TSP21-06E	TSP21-07E	TSP21-08E	TSP21-09E	TSP21-10E
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.75	1.80	1.85	1.75	1.80	1.85	1.80	1.65
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	14	14	14	13	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	26	27	41	49	40	19	47
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	77	69	66	120	110	53	120
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	76	62	56	110	100	48	97
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	13	14	13	10	< 10	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	180	160	160	280	250	120	260
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	190	170	180	290	260	120	270
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.5	5.1	3.8	5.5	4.0	3.1	5.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	29	34	34	34	14	32
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	33	37	34	56	59	33	54
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	17	12	7.6	21	23	12	19
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	65	71	72	95	98	50	91
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	82	82	80	120	120	62	110
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	240	230	230	370	350	170	350
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	280	250	260	400	390	180	380
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.42	0.12	0.15	0.26	0.16	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932941	1932942	1932943	1932944	1932945	1932946	1932947	1932948	1932949	1932950
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-01E	TSP21-02E	TSP21-03E	TSP21-04E	TSP21-05E	TSP21-06E	TSP21-07E	TSP21-08E	TSP21-09E	TSP21-10E
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.75	1.80	1.85	1.75	1.80	1.85	1.80	1.65
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	0.18	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.99	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.62	0.43	0.71	5.2	0.42	0.26	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.25	0.17	0.34	0.89	0.17	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.4	1.2	2.0	7.9	1.2	0.93	1.0
Pyrene		M	2800	mg/kg	0.10	2.2	1.1	1.8	5.5	1.1	0.95	0.94
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	0.62	0.96	1.4	0.56	0.43	< 0.10
Chrysene		M	2800	mg/kg	0.10	1.4	0.79	1.1	1.5	0.62	0.48	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.1	1.1	1.9	1.1	0.96	0.76	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.67	0.32	0.59	0.37	0.33	0.28	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6	0.90	1.4	1.1	0.82	0.61	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	0.69	1.1	0.59	0.52	0.48	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	0.74	1.0	0.64	0.63	0.46	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	8.3	13	29	7.5	5.7	2.2

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932949	1932950	1932951	1932952	1932953	1932954	1932955	
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09E	TSP21-10E	TSP21-11E	TSP21-12E	TSP21-13E	TSP21-14E	TSP21-15E	
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.70	1.65	1.70	
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	13	13	13	13	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	5.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	27	16	52	18	61
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	43	140	69	73
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	73	25	96	56	51
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	12	< 10	< 10	13	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	220	84	290	150	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	230	84	290	160	150
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.9	2.4	4.9	3.9	6.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	41	15	32	19	14
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	44	15	58	33	29
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	3.1	29	14	14
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	93	32	95	56	51
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	35	120	70	64
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	310	120	380	200	190
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	350	120	410	230	220
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319	25-05319
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932949	1932950	1932951	1932952	1932953	1932954	1932955	
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09E	TSP21-10E	TSP21-11E	TSP21-12E	TSP21-13E	TSP21-14E	TSP21-15E	
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.70	1.65	1.70	
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.37	0.42	0.99	0.27	0.26
Anthracene		M	2800	mg/kg	0.10	0.16	0.18	0.29	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.3	2.4	0.79	1.0
Pyrene		M	2800	mg/kg	0.10	1.2	1.2	2.0	0.77	1.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.68	0.95	0.41	0.47
Chrysene		M	2800	mg/kg	0.10	0.68	0.76	0.91	0.41	0.42
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.81	1.1	1.4	0.70	1.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.31	0.42	0.44	0.24	0.34
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.66	0.98	1.2	0.55	0.70
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.56	0.76	0.82	0.40	0.64
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.28	< 0.10	< 0.10	0.11
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.49	1.0	0.84	0.44	0.58
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.1	9.1	12	5.1	6.9

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Diben[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-06188-1
Initial Date of Issue: 06-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs
Project S3240 Ardrossan North Shore
Quotation No.: Q24-35340
Order No.: S3240
No. of Samples: 15
Turnaround (Wkdays): 5
Date Approved: 06-Mar-2025

Date Received: 21-Feb-2025
Date Instructed: 21-Feb-2025
Results Due: 27-Feb-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936959	1936960	1936961	1936962	1936963	1936964	1936965	1936966	1936966	1936966
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-01E	TSP21-02E	TSP21-03E	TSP21-04E	TSP21-05E	TSP21-06E	TSP21-07E	TSP21-08E	TSP21-08E	TSP21-08E
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.75	1.70	1.75	1.80	1.85	1.75	1.80	1.85	1.85	1.85
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and brick	Stones and brick	Stones	Stones and brick
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	2.9	3.2	3.2	3.2	2.2	8.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	21	14	19	35	13	13	59
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	41	31	43	79	19	23	61
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	37	34	18	36	18	13	9.4
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	100	82	83	150	54	51	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	120	82	83	150	54	51	140
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.6	2.6	8.5	10	2.4	6.3	35
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	48	49	45	54	31	48	230
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	28	66	79	33	52	150
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	16	57	62	14	36	130
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	81	80	120	140	67	110	410
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	95	96	180	210	80	140	540
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	180	160	200	300	120	160	550
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	210	180	260	360	130	190	680
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.32	0.15	0.16	0.21	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936959	1936960	1936961	1936962	1936963	1936964	1936965	1936966
Order No.: S3240		Client Sample Ref.:				TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:				TSP21-01E	TSP21-02E	TSP21-03E	TSP21-04E	TSP21-05E	TSP21-06E	TSP21-07E	TSP21-08E
		Sample Location:				TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.75	1.70	1.75	1.80	1.85	1.75	1.80	1.85
		Date Sampled:				19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.17	0.16	0.13	0.39	< 0.10	< 0.10	0.16
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.24	< 0.10	0.18	0.29	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	0.17	0.36	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.87	1.3	1.0	0.84	1.5	0.88	0.68	0.71
Anthracene		M	2800	mg/kg	0.10	0.33	0.44	0.38	0.32	0.61	0.33	0.30	0.27
Fluoranthene		M	2800	mg/kg	0.10	3.0	2.8	3.1	3.0	3.1	2.8	1.8	2.5
Pyrene		M	2800	mg/kg	0.10	2.7	2.5	2.8	2.6	2.8	2.5	1.8	2.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	1.2	1.2	1.3	1.4	1.2	0.82	1.0
Chrysene		M	2800	mg/kg	0.10	1.1	1.4	1.3	1.4	1.7	0.97	0.72	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0	1.9	2.1	2.0	2.3	1.8	1.4	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.75	0.67	0.79	0.71	1.2	0.65	0.52	0.58
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6	1.4	1.6	1.6	1.9	1.5	1.1	1.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.4	1.1	1.3	1.3	1.7	1.1	1.0	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	0.22	0.31	0.17	0.51	< 0.10	0.25	0.17
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.4	1.4	1.6	1.2	2.1	1.2	1.1	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	17	17	18	17	22	15	12	15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936967	1936968	1936969	1936970	1936971	1936972	1936973		
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09E	TSP21-10E	TSP21-11E	TSP21-12E	TSP21-13E	TSP21-14E	TSP21-15E		
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.70	1.65	1.70		
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	14	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones and brick	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.3	3.3	< 2.0	< 2.0	2.7	3.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	14	27	16	10	15	29
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	35	64	34	25	33	65
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40	38	23	24	23	30
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	93	130	74	60	74	130
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	93	130	74	60	74	130
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.0	6.8	5.9	3.6	6.7	7.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	32	55	41	28	42	71
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	44	93	44	37	52	93
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	17	89	24	19	56	110
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	81	160	91	68	100	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	98	240	110	87	160	280
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	170	290	160	130	170	300
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	190	380	190	150	230	410
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	0.43	0.18	0.25

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188	25-06188
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936967	1936968	1936969	1936970	1936971	1936972	1936973
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09E	TSP21-10E	TSP21-11E	TSP21-12E	TSP21-13E	TSP21-14E	TSP21-15E
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.70	1.65	1.70
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	0.43
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	0.23
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.45
Phenanthrene		M	2800	mg/kg	0.10	0.44	0.78	0.90	1.8
Anthracene		M	2800	mg/kg	0.10	0.25	0.33	0.34	0.66
Fluoranthene		M	2800	mg/kg	0.10	1.5	1.8	2.3	3.1
Pyrene		M	2800	mg/kg	0.10	1.5	1.6	2.3	2.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.80	0.87	1.1	1.6
Chrysene		M	2800	mg/kg	0.10	0.76	0.65	0.98	1.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	1.5	1.9	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.62	0.63	0.73	0.84
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.3	1.7	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.0	1.2	1.2	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.27	0.20	0.31	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.99	1.2	1.5	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	13	15	20

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASD

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-08211-1
Initial Date of Issue: 21-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 11-Mar-2025

Order No.: S3240

Date Instructed: 11-Mar-2025

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 21-Mar-2025

Approved By:

Details: Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944838	1944839	1944840	1944841	1944842	1944843	1944844	1944845	1944845	1944845
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-01F	TSP21-02F	TSP21-03F	TSP21-04F	TSP21-05F	TSP21-06F	TSP21-07F	TSP21-08F	TSP21-08F	TSP21-08F
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.70	1.75	1.60	1.65	1.75	1.80	1.80	1.80	1.65
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	15	15	15	16	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	12	14	12	24	7.6	19	18
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	37	40	56	95	45	76	6.4
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	22	43	47	53	43	51	11
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	23	25	25	27	18	14
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	70	99	110	170	95	150	30
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	86	120	140	200	120	160	44
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.2	2.9	7.9	10	< 1.0	3.4	25
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	67	37	46	72	48	43	160
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	81	58	85	110	90	97	180
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	46	24	60	36	20	42	210
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	150	98	140	190	140	140	360
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200	120	200	220	160	190	570
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	220	200	250	360	230	290	390
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	280	240	340	420	280	350	620
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.1	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944838	1944839	1944840	1944841	1944842	1944843	1944844	1944845
Order No.: S3240		Client Sample Ref.:				TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:				TSP21-01F	TSP21-02F	TSP21-03F	TSP21-04F	TSP21-05F	TSP21-06F	TSP21-07F	TSP21-08F
		Sample Location:				TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.75	1.70	1.75	1.60	1.65	1.75	1.80	1.65
		Date Sampled:				06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.30	0.30	0.24	< 0.10	0.30	< 0.10	0.31
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.63	0.47	0.42	0.42	0.52	0.43	0.46
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.24	0.17	0.21	0.20	0.20	0.17	0.22
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.6	1.4	1.3	1.2	1.3	1.1	1.4
Pyrene		M	2800	mg/kg	0.10	1.2	1.4	1.2	1.2	1.0	1.3	1.1	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.72	0.70	0.70	0.57	0.78	0.57	0.69
Chrysene		M	2800	mg/kg	0.10	0.58	0.65	0.53	0.41	0.56	0.63	0.50	0.52
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.0	1.2	1.3	0.97	1.4	0.94	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.37	0.34	0.40	0.41	0.37	0.40	0.33	0.40
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.90	0.87	0.95	0.97	0.80	1.1	0.74	0.94
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.58	0.69	0.73	0.66	0.59	0.90	0.71	0.77
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.14	0.17	0.17	< 0.10	0.21	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.83	0.66	0.72	0.68	0.62	0.96	0.65	0.71
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.4	9.2	8.9	8.8	7.3	10	7.2	8.8

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944846	1944847	1944848	1944849	1944850	1944851	1944852		
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09F	TSP21-10F	TSP21-11F	TSP21-12F	TSP21-13F	TSP21-14F	TSP21-15F		
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.75	1.65	1.70		
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	15	15	15	15	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	2.0	3.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	22	19	20	27	21	16
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	72	48	55	66	62	56
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40	42	45	35	49	33
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	23	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	130	110	120	130	130	110
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	150	130	120	130	130	110
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.6	6.9	5.4	13	6.3	4.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	63	36	40	140	28	39
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	110	59	61	230	54	82
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	57	23	30	140	20	49
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	180	100	110	380	88	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	240	120	140	520	110	170
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	320	210	230	510	220	230
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	390	260	260	650	240	280
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211	25-08211
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944846	1944847	1944848	1944849	1944850	1944851	1944852			
Order No.: S3240		Client Sample Ref.:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Client Sample ID.:	TSP21-09F	TSP21-10F	TSP21-11F	TSP21-12F	TSP21-13F	TSP21-14F	TSP21-15F			
		Sample Location:	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21	TSP21
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.75	1.80	1.75	1.65	1.70			
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.31	0.24	0.26	< 0.10	0.31	0.25
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.56	2.3	0.34	0.44	0.42	0.40	0.45
Anthracene		M	2800	mg/kg	0.10	0.19	0.68	0.16	0.22	0.15	0.15	0.21
Fluoranthene		M	2800	mg/kg	0.10	1.5	5.4	0.96	1.4	1.4	1.3	1.8
Pyrene		M	2800	mg/kg	0.10	1.5	4.2	0.91	1.3	1.3	1.2	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.66	2.3	0.53	0.75	0.72	0.66	0.74
Chrysene		M	2800	mg/kg	0.10	0.50	2.1	0.54	0.58	0.61	0.50	0.64
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	3.2	< 0.10	1.5	1.1	1.0	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.38	1.1	< 0.10	0.50	1.0	0.40	0.44
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.94	2.7	< 0.10	1.2	0.86	0.90	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.83	1.9	< 0.10	0.92	0.61	0.68	0.96
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.80	1.6	< 0.10	0.96	0.73	0.73	0.89
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.1	28	3.7	10	8.9	8.2	11

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- 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 - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Test Results

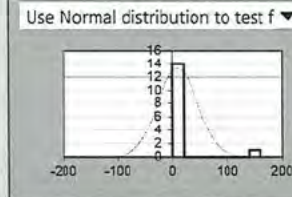
Client/client ref:

Site ref: S3240

Date: 12-May-2025

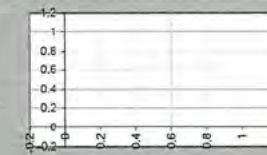
Project ref: Aromatic TPH >C10 Data description: Aromatic TPH >C10-C12 Round User details: EJ

Dataset	C10-C12
Sample mean, $\bar{x}$	9.4267
Sample standard deviation, s	36.122
Sample size, n	15
Critical concentration, Cc	48.3



Outliers & non-detects

Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0

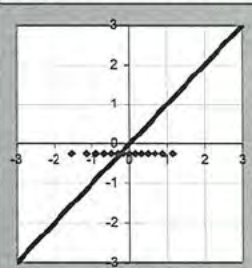


Normality test

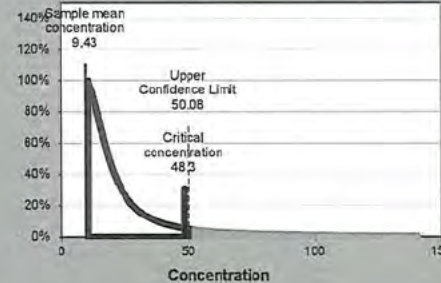
Significance level 5%

Non-normal distribution

Use: Auto: Chebychev

Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$)Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$ Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Probability that true mean exceeds the concentration given on the x axis



Evidence against Null hypothesis:

95%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? No

Not enough evidence

Back to data

Back to summary

Go to outlier test

Go to normality test

Treated Stockpile Reuse Validation Form 020 – TSP24**Stockpile ID**

Stockpile ID: TSP24

Material Volume:

958 m³

Validation Samples Included per Round

10 No.

Tested Location: Treatment Area 02

Stockpile Creation Date: 05/11/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 6 of 8)	Sample Date: 12/02/2025	Report Number & Date: 25-05313 – 26/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 7 of 8)	Sample Date: 19/02/2025	Report Number & Date: 25-06196 05/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 8 of 8)	Sample Date: 06/03/2025	Report Number & Date: 25-08216 – 21/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Date: 27/02/2025

Report Number: 25-05313

Sample ID (Sample Names): TSP24-01D → TSP24-010D

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 565 mg/kg Overall, 6th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Date: 06/03/2025

Report Number: 25-06196

Sample ID (Sample Names): TSP24-01E → TSP24-010E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 249 mg/kg Overall, 7th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-08216

Report Date: 21/03/2025

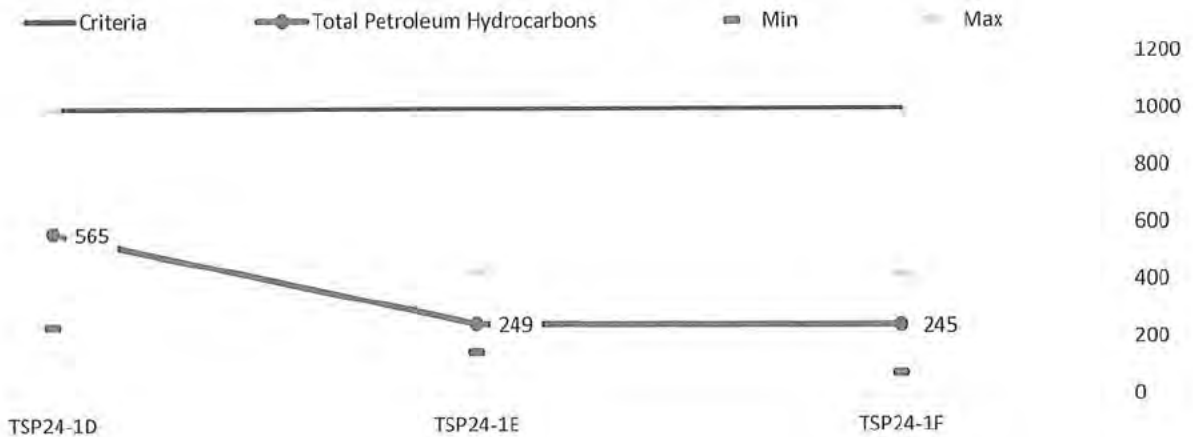
Sample ID (Sample Names): TSP24-01F → TSP24-010F

Report ID (Lab): Eurofins

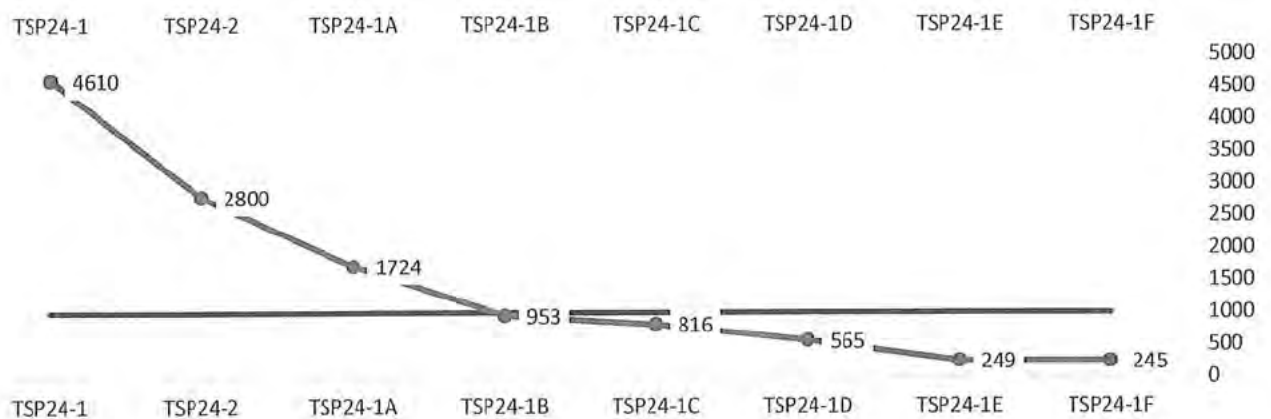
Comments:

Test Results: PASS / FAIL

Average total TPH = 245 mg/kg Overall, 8th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review**Data Trend for Total TPH levels:****Min & Max Soil Values for Total Petroleum Hydrocarbons****Additional Trendline Data – long term review:**

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from September 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 94.69% when compared to the material's initial total TPH level (4,610 mg/kg (5th November 2024), compared to the final round's average of 245 mg/kg (6th March 2025)):

Soil Values for Total Petroleum Hydrocarbons

Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, in the spirit of BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.

Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with no exceedances of the accepted reuse criteria. No exceedances within the banded Hydrocarbon fractions are seen within all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME

POSITION: Senior Environmental Engineer

DATE: 27/03/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

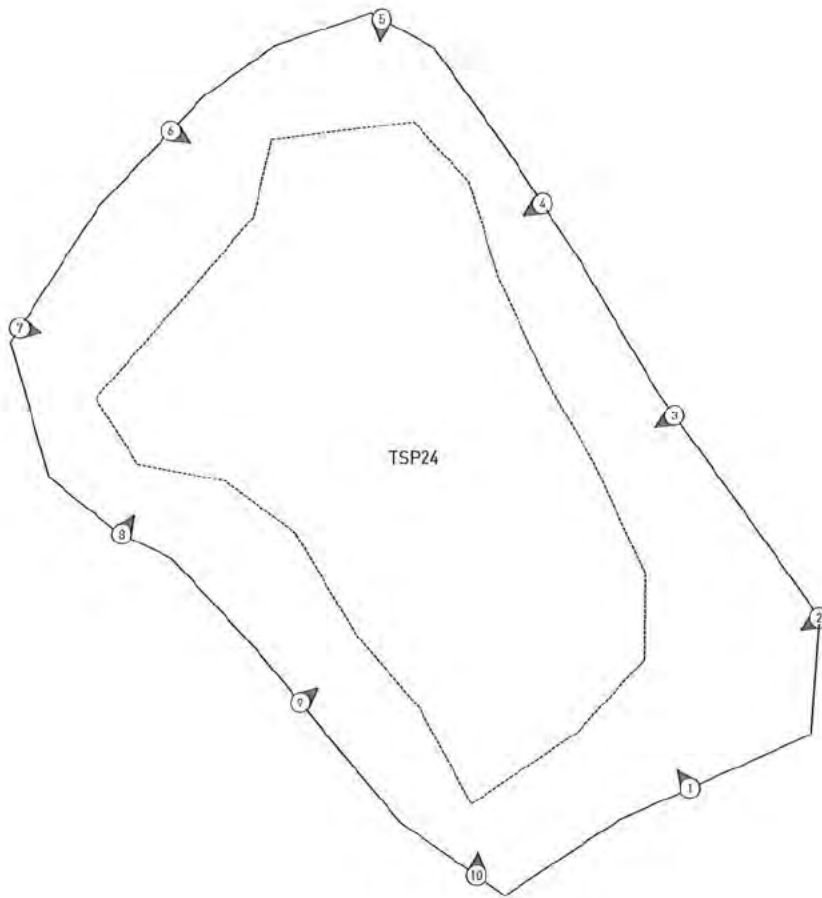
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group.
23/03/2026. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	11/03/2025

APPROVED

Project Name: North Shore, Ardrossan		
Client: North Ayrshire Council		
Drawing Title: Treatment Stockpile 24 Sample Location Plan		
Contract No: 53240	Drawing No: D3240/120	Scale @ A3: 1:200 / See Inset
Drawn By: JH	QC Check By: ARW	Approved By: ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C8	Aliphatic TPH >C8-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C16	Aliphatic TPH >C16-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C35-C55	Aromatic TPH >C5-C7	Aromatic TPH >C7-C8	Aromatic TPH >C8-C10	Aromatic TPH >C10-C12	Aromatic TPH >C12-C16	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35	Aromatic TPH >C35-C55
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOD		10	0.02	0.02	0.05	1	2	8	8		0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000		140	290	7.34	48.3	173.47	560	1000	
TSP24-01D	12/02/2025	550	< 0.05	< 0.10	< 0.05	< 2.0	64	170	120	350	< 0.05	< 0.05	< 0.05	< 1.0	5	23	98	120
TSP24-02D	12/02/2025	480	< 0.05	< 0.10	< 0.05	< 2.0	47	140	98	290	< 0.05	< 0.05	< 0.05	< 1.0	4	28	94	130
TSP24-03D	12/02/2025	460	< 0.05	< 0.10	< 0.05	< 2.0	50	150	100	300	< 0.05	< 0.05	< 0.05	< 1.0	8	16	72	96
TSP24-04D	12/02/2025	440	< 0.05	< 0.10	< 0.05	2	43	140	96	290	< 0.05	< 0.05	< 0.05	< 1.0	5	16	64	85
TSP24-05D	12/02/2025	550	< 0.05	< 0.10	< 0.05	2	48	190	120	370	< 0.05	< 0.05	< 0.05	< 1.0	7	14	90	110
TSP24-06D	12/02/2025	840	< 0.05	< 0.10	< 0.05	8	100	260	210	580	< 0.05	< 0.05	< 0.05	< 1.0	8	23	120	150
TSP24-07D	12/02/2025	1000	< 0.05	< 0.10	< 0.05	3	90	390	170	650	< 0.05	< 0.05	< 0.05	< 1.0	15	55	190	260
TSP24-08D	12/02/2025	430	< 0.05	< 0.10	< 0.05	< 2.0	50	140	110	300	< 0.05	< 0.05	< 0.05	< 1.0	4	13	71	88
TSP24-09D	12/02/2025	860	< 0.05	< 0.10	< 0.05	8	83	200	180	440	< 0.05	< 0.05	< 0.05	< 1.0	7	20	93	120
TSP24-010D	12/02/2025	240	< 0.05	< 0.10	< 0.05	< 2.0	21	74	56	150	< 0.05	< 0.05	< 0.05	< 1.0	2	13	45	61
TSP24-01E	19/02/2025	230	< 0.05	< 0.10	< 0.05	3	15	51	43	110	< 0.05	< 0.05	< 0.05	< 1.0	6	30	60	96
TSP24-02E	19/02/2025	200	< 0.05	< 0.10	< 0.05	3	11	35	23	71	< 0.05	< 0.05	< 0.05	< 1.0	4	33	61	97
TSP24-03E	19/02/2025	180	< 0.05	< 0.10	< 0.05	< 2.0	13	37	27	78	< 0.05	< 0.05	< 0.05	< 1.0	4	29	51	84
TSP24-04E	19/02/2025	230	< 0.05	< 0.10	< 0.05	3	12	30	84	130	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	23	45	88
TSP24-05E	19/02/2025	170	< 0.05	< 0.10	< 0.05	3	12	33	20	67	< 0.05	< 0.05	< 0.05	< 1.0	2	29	41	72
TSP24-06E	19/02/2025	220	< 0.05	< 0.10	< 0.05	4	14	55	32	110	< 0.05	< 0.05	< 0.05	< 1.0	3	40	61	100
TSP24-07E	19/02/2025	430	< 0.05	< 0.10	< 0.05	10	51	95	44	200	< 0.05	< 0.05	< 0.05	1	17	52	100	170
TSP24-08E	19/02/2025	250	< 0.05	< 0.10	< 0.05	3	16	41	38	98	< 0.05	< 0.05	< 0.05	< 1.0	4	34	63	100
TSP24-09E	19/02/2025	420	< 0.05	< 0.10	< 0.05	5	50	100	67	230	< 0.05	< 0.05	< 0.05	< 1.0	13	60	97	170
TSP24-10E	19/02/2025	150	< 0.05	< 0.10	< 0.05	3	13	38	30	83	< 0.05	< 0.05	< 0.05	< 1.0	3	20	37	59
TSP24-01F	06/03/2025	140	< 0.05	< 0.10	< 0.05	< 2.0	8	33	28	68	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	20	38	58
TSP24-02F	06/03/2025	75	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	21	15	36	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	14	19	33
TSP24-03F	06/03/2025	270	< 0.05	< 0.10	< 0.05	< 2.0	16	60	39	110	< 0.05	< 0.05	< 0.05	< 1.0	3	45	77	120
TSP24-04F	06/03/2025	260	< 0.05	< 0.10	< 0.05	< 2.0	16	54	42	110	< 0.05	< 0.05	< 0.05	< 1.0	2	41	68	110
TSP24-05F	06/03/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	12	48	43	100	< 0.05	< 0.05	< 0.05	1	5	44	67	120
TSP24-06F	06/03/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	11	50	35	97	< 0.05	< 0.05	< 0.05	< 1.0	4	47	69	120
TSP24-07F	06/03/2025	220	< 0.05	< 0.10	< 0.05	< 2.0	14	45	27	86	< 0.05	< 0.05	< 0.05	< 1.0	3	38	68	110
TSP24-08F	06/03/2025	300	< 0.05	< 0.10	< 0.05	< 2.0	24	47	35	110	< 0.05	< 0.05	< 0.05	< 1.0	11	63	75	150
TSP24-09F	06/03/2025	420	< 0.05	< 0.10	< 0.05	< 2.0	3	21	9	33	< 0.05	< 0.05	< 0.05	< 1.0	7	160	180	350
TSP24-10F	06/03/2025	260	< 0.05	< 0.10	< 0.05	< 2.0	5	39	78	120	< 0.05	< 0.05	< 0.05	< 1.0	1	39	80	98



Final Report

Report No.: 25-05313-1
Initial Date of Issue: 26-Feb-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs
Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 14-Feb-2025

Order No.: S3240

Date Instructed: 14-Feb-2025

No. of Samples: 10

Turnaround (Wkdays): 5

Results Due: 20-Feb-2025

Date Approved: 26-Feb-2025

Approved By:

Details: Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932968	1932969	1932970	1932971	1932972	1932973	1932974	1932975	1932976	1932977
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01D	TSP24-02D	TSP24-03D	TSP24-04D	TSP24-05D	TSP24-06D	TSP24-07D	TSP24-08D	TSP24-09D	TSP24-10D
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.75	1.65	1.80	1.75	1.75	1.75
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	14	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	2.2	2.3	7.7	2.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	64	47	50	43	48	100	90
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	140	150	140	190	260	390
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	98	100	96	120	210	170
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	350	290	300	290	370	580	650
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	350	290	300	290	370	580	650
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.7	4.2	8.4	5.0	6.8	7.7	15
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	23	28	16	16	14	23	55
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	98	94	72	64	90	120	190
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	74	63	66	72	75	120	100
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	130	96	85	110	150	260
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200	190	160	160	190	260	360
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	480	420	400	370	480	730	910
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	550	480	460	440	550	840	1000
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.15	0.11	< 0.10	0.17	< 0.10	0.11	0.16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313	25-05313
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932968	1932969	1932970	1932971	1932972	1932973	1932974	1932975	1932975	1932975
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01D	TSP24-02D	TSP24-03D	TSP24-04D	TSP24-05D	TSP24-06D	TSP24-07D	TSP24-08D	TSP24-08D	TSP24-08D
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.75	1.65	1.80	1.75	1.75	1.75
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.80	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.53	0.42	0.28	0.66	0.35	1.6	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.21	0.17	0.15	0.31	0.17	0.53	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.4	1.3	0.74	2.1	1.0	4.3	5.2
Pyrene		M	2800	mg/kg	0.10	1.3	1.2	0.68	1.8	0.99	3.6	4.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.74	0.69	0.38	0.94	0.57	1.8	2.6
Chrysene		M	2800	mg/kg	0.10	0.71	0.66	0.37	0.90	0.57	1.8	2.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	0.74	1.4	0.83	2.2	2.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.34	0.25	0.58	0.31	0.89	0.79
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.94	0.62	1.4	0.77	2.0	2.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.80	0.80	0.60	0.83	0.58	1.4	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.88	0.82	0.47	0.81	0.57	1.2	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.4	8.6	5.3	12	6.7	21	30

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05313	25-05313
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932976	1932977
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09D	TSP24-010D
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	14	14
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	8.3	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	83	21
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	200	74
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	160	56
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	440	150
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	440	150
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.3	1.9
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	20	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	93	45
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	94	26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	61
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	210	87
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	560	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	660	240
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
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.21

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05313	25-05313
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932976	1932977
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09D	TSP24-010D
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.57
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.20
Fluoranthene		M	2800	mg/kg	0.10	0.66	1.3
Pyrene		M	2800	mg/kg	0.10	0.63	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.72
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.76
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.38
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.92
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.87
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.99
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	9.2

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-06196-1
Initial Date of Issue: 05-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Feb-2025

Order No.: S3240

Date Instructed: 21-Feb-2025

No. of Samples: 10

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 05-Mar-2025

Approved By:

Details:

Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936986	1936987	1936988	1936989	1936990	1936991	1936992	1936993		
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01E	TSP24-02E	TSP24-03E	TSP24-04E	TSP24-05E	TSP24-06E	TSP24-07E	TSP24-08E		
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.70	1.65	1.80	1.75		
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	13	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.8	2.8	< 2.0	2.7	2.6	4.3	10
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	11	13	12	12	14	51
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	51	35	37	30	33	55	95
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	43	23	27	84	20	32	44
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	19	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	71	78	130	67	110	200
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	71	78	150	67	110	200
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.1	3.9	3.7	< 1.0	1.9	3.0	17
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	30	33	29	23	29	40	52
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	60	61	51	45	41	61	100
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	18	30	27	14	28	12	63
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	96	97	84	68	72	100	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	130	110	82	100	120	230
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	210	170	160	200	140	210	370
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	200	190	230	170	220	430
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.16	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196	25-06196
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936986	1936987	1936988	1936989	1936990	1936991	1936992	1936993		
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01E	TSP24-02E	TSP24-03E	TSP24-04E	TSP24-05E	TSP24-06E	TSP24-07E	TSP24-08E		
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.70	1.65	1.80	1.75		
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.89	0.97	0.82	0.64	0.85	0.67	0.92
Anthracene		M	2800	mg/kg	0.10	0.32	0.32	0.38	< 0.10	0.34	0.27	0.35
Fluoranthene		M	2800	mg/kg	0.10	2.7	2.8	2.7	1.8	2.4	2.1	2.7
Pyrene		M	2800	mg/kg	0.10	2.3	2.4	2.3	1.6	2.1	1.9	2.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	1.3	1.3	0.78	1.2	0.83	1.1
Chrysene		M	2800	mg/kg	0.10	1.1	1.2	1.2	0.60	1.2	0.80	0.86
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.3	2.0	2.0	1.5	1.9	1.6	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.76	0.81	0.75	0.45	0.63	0.43	0.65
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.5	1.5	1.0	1.4	1.3	1.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	1.3	1.3	0.94	1.3	1.1	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	0.26	0.23	< 0.10	0.49	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.4	1.3	1.5	0.95	1.2	1.1	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	17	16	10	15	12	15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06196	25-06196
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936994	1936995
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09E	TSP24-10E
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	14	14
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.6	2.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	50	13
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	100	38
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	67	30
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	230	83
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	230	83
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	13	2.9
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	60	20
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	97	37
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	20	8.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	170	59
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	190	68
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	400	140
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	420	150
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
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06196	25-06196
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936994	1936995
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09E	TSP24-10E
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.52	0.62
Anthracene		M	2800	mg/kg	0.10	0.19	0.25
Fluoranthene		M	2800	mg/kg	0.10	1.8	1.9
Pyrene		M	2800	mg/kg	0.10	1.7	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.88	0.87
Chrysene		M	2800	mg/kg	0.10	0.71	0.72
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.47	0.59
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.93	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.21	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	12

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-08216-1

Initial Date of Issue: 21-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 11-Mar-2025

Order No.: S3240

Date Instructed: 11-Mar-2025

No. of Samples: 10

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 21-Mar-2025

Approved By:

Details:

Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944864	1944865	1944866	1944867	1944868	1944869	1944870	1944871		
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01F	TSP24-02F	TSP24-03F	TSP24-04F	TSP24-05F	TSP24-06F	TSP24-07F	TSP24-08F		
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.75	1.65	1.80	1.75		
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	15	15	15	16	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	7.5	< 1.0	16	16	12	11	14
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	33	21	60	54	48	50	45
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	28	15	39	42	43	35	27
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	68	36	110	110	100	97	86
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	68	36	110	110	100	97	86
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	3.0	2.0	4.9	3.8	3.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	20	14	45	41	44	47	38
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	38	19	77	68	67	69	68
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	9.3	5.8	35	37	29	29	20
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	58	33	120	110	120	120	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	68	39	160	150	150	150	130
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	130	69	240	220	220	220	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	75	270	260	250	250	220
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	8.8	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	3.1	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216	25-08216
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944864	1944865	1944866	1944867	1944868	1944869	1944870	1944871		
Order No.: S3240		Client Sample Ref.:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24
		Client Sample ID.:	TSP24-01F	TSP24-02F	TSP24-03F	TSP24-04F	TSP24-05F	TSP24-06F	TSP24-07F	TSP24-08F		
		Sample Location:	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24	TSP24		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.70	1.75	1.75	1.70	1.75	1.65	1.80	1.75		
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.26	0.29	0.23
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.60	0.62	0.47	0.72	0.64	0.60	0.50
Anthracene		M	2800	mg/kg	0.10	0.20	0.27	0.16	0.28	0.21	0.39	0.15
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.9	1.2	1.9	1.6	1.6	1.2
Pyrene		M	2800	mg/kg	0.10	1.4	1.8	1.1	1.8	1.5	1.5	1.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.80	1.0	0.63	1.0	0.79	0.80	0.58
Chrysene		M	2800	mg/kg	0.10	0.63	1.0	0.53	0.90	0.58	0.74	0.48
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.5	< 0.10	1.5	1.3	1.4	0.89
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.41	0.64	< 0.10	0.57	0.47	0.52	0.33
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.3	< 0.10	1.3	1.0	1.2	0.77
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.93	0.93	< 0.10	1.1	0.74	0.79	0.65
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.90	0.99	< 0.10	0.96	0.80	0.83	0.61
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.9	12	4.1	12	10	11	7.4

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08216	25-08216
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944872	1944873
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09F	TSP24-10F
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	15	15
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.8	4.8
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	21	39
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	9.3	78
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	19
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	33	120
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	47	140
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.5	1.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	160	39
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	180	60
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	28	21
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	350	99
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	370	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	380	220
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	420	260
Benzene		M	2760	µg/kg	1.0	29	< 1.0
Toluene		M	2760	µg/kg	1.0	10	< 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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08216	25-08216
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944872	1944873
Order No.: S3240		Client Sample Ref.:				TSP24	TSP24
		Client Sample ID.:				TSP24-09F	TSP24-10F
		Sample Location:				TSP24	TSP24
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.70	1.75
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.28	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.63	0.58
Anthracene		M	2800	mg/kg	0.10	0.29	0.25
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.7
Pyrene		M	2800	mg/kg	0.10	1.5	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.73	0.89
Chrysene		M	2800	mg/kg	0.10	0.62	0.70
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.40	0.57
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.86	0.98
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.74	0.88
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	11

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASE

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Treated Stockpile Reuse Validation Form 021 – TSP15**Stockpile ID**

Stockpile ID: TSP15

Material Volume:

1,490 m³

Validation Samples Included per Round

15 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 26/09/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 9 of 11)	Sample Date: 12/02/2025	Report Number & Date: 25-06181 – 04/03/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08201 21/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 19/03/2025	Report Number & Date: 25-09741– 02/04/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-06181

Report Date: 04/03/2025

Sample ID (Sample Names): TSP15-01F → TSP15-15F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 9th round of sampling undertaken from the treated Stockpile.

No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 25-08201

Report Date: 21/03/2025

Sample ID (Sample Names): TSP15-01G → TSP15-15G

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 10th round of sampling undertaken from the treated Stockpile.

For total TPH, 10 out of 11 <1,000 mg/kg, with the higher exceedance at TSP15-11G = 1,600 mg/kg. The average total TPH level is significantly below the 1,000 mg/kg threshold (at 241 mg/kg) and no banded TPH failures were recorded for this testing round. Following a statistical review, a >95% confidence level is seen with the distribution of total TPH, using the critical value of 1,000mg/kg a normal-normal distribution.

Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-09741

Report Date: 02/04/2025

Sample ID (Sample Names): TSP15-01H → TSP15-15H

Report ID (Lab): Eurofins

Comments:

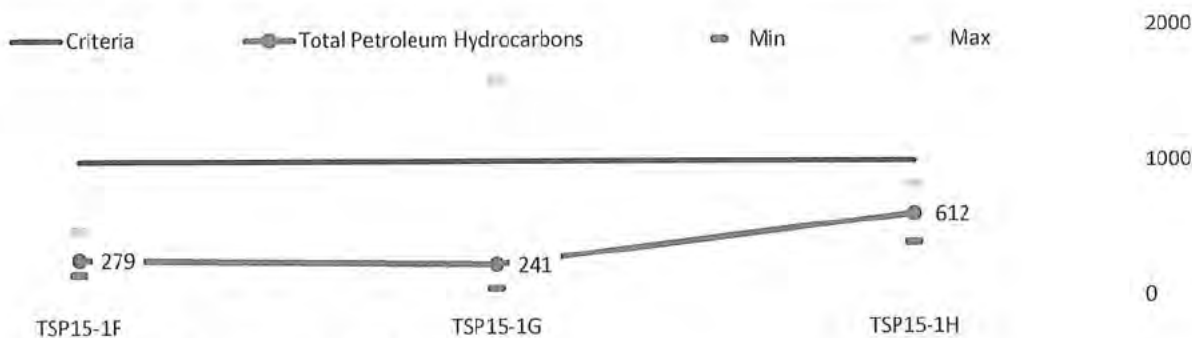
Test Results: PASS / FAIL

Overall, 11th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

Data Trend for Total TPH levels:

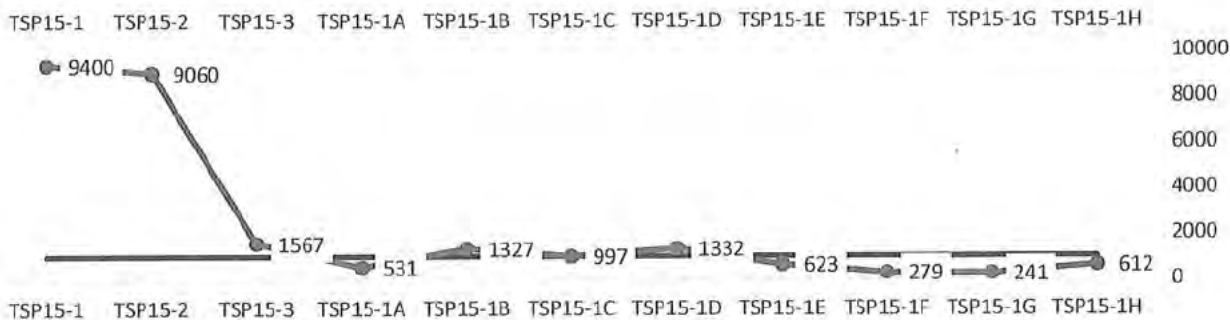
Min & Max Soil Values for Total Petroleum Hydrocarbons



Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from August 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 93.48% when compared to the material's initial total TPH level (9,400 mg/kg (13th August 2024), compared to the final round's average of 612 mg/kg (19th March 2025)):

Soil Values for Total Petroleum Hydrocarbons



Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, in the spirit of BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.

Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. No exceedances within the banded Hydrocarbon fractions are seen within all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME:

POSITION: Senior Environmental Engineer

DATE: 04/04/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

Use Only:

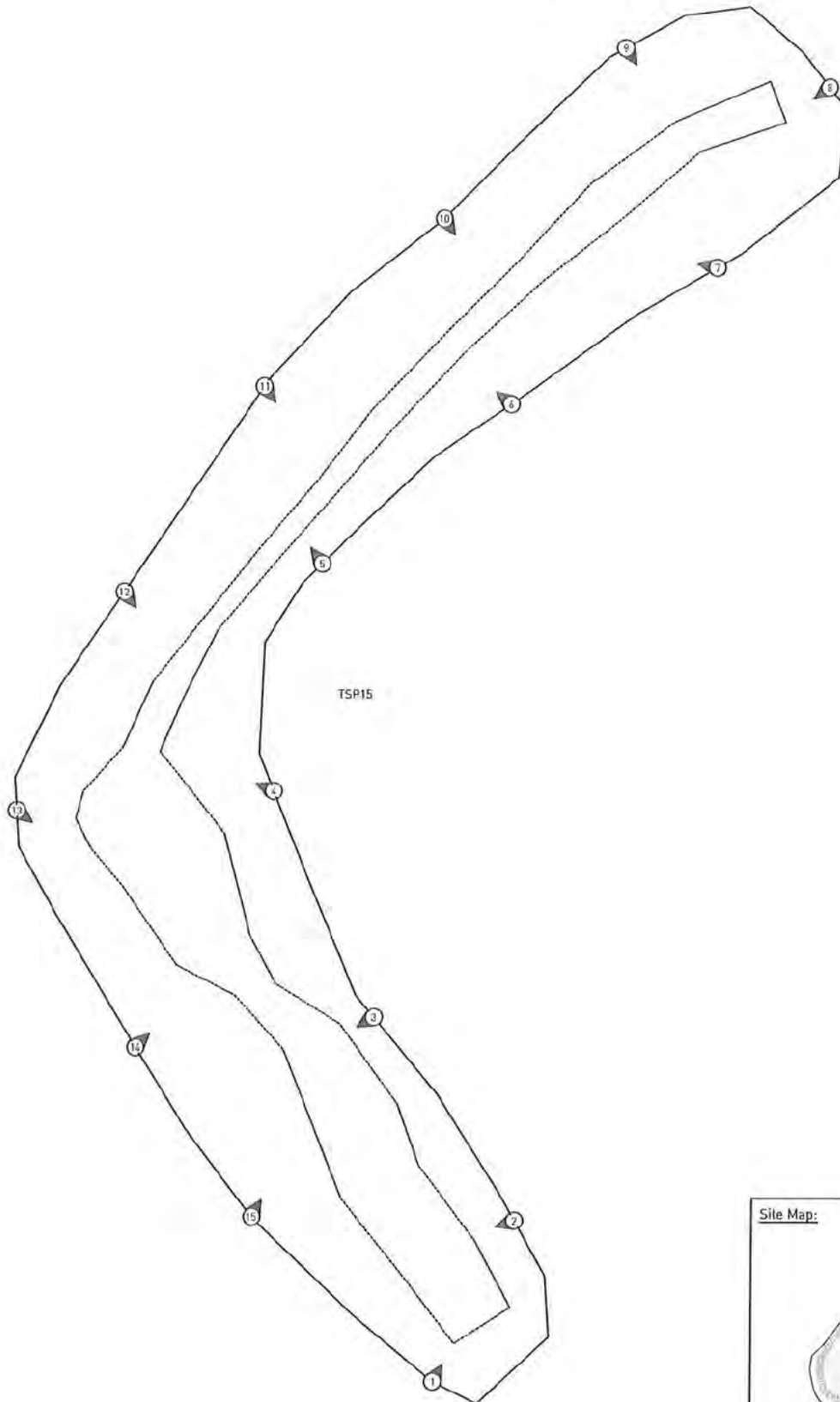
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



Scale: 1:12,500

Drawing Notes:
Based on client supplied DWs -
ARDROSSAN 2D produced by Aird Group.
23/03/2020. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	11/03/2025

APPROVED

Project Name: North Shore, Ardrossan		
Client: North Ayrshire Council		
Drawing Title: Treatment Stockpile 15 Sample Location Plan		
Contract No: S3240	Drawing No: 03240/111	Scale: 0 A3: 1:250 / See Inset
Drawn By: JH	QC Check By: ARW	Approved By: ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C8	Aliphatic TPH >C8-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C16	Aliphatic TPH >C16-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C10-C35	Aromatic TPH >C5-C7	Aromatic TPH >C7-C9	Aromatic TPH >C9-C10	Aromatic TPH >C10-C12	Aromatic TPH >C12-C16	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35	Aromatic TPH >C35-C55
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LDD		10	0.02	0.02	0.05	1	2	8	8		0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000		140	290	7.34	48.3	173.47	540	1000	
TSP15-01F	19/02/2025	460	< 0.05	< 0.10	< 0.05	4	58	120	100	290	< 0.05	< 0.05	< 0.05	< 1.0	8	51	74	130
TSP15-02F	19/02/2025	170	< 0.05	< 0.10	< 0.05	< 2.0	5	32	47	94	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	28	24	83
TSP15-03F	19/02/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	24	58	58	140	< 0.05	< 0.05	< 0.05	< 1.0	4	35	35	73
TSP15-04F	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	14	50	50	110	< 0.05	< 0.05	< 0.05	< 1.0	2	34	34	70
TSP15-05F	19/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	15	87	88	140	< 0.05	< 0.05	< 0.05	< 1.0	2	41	35	78
TSP15-06F	19/02/2025	230	< 0.05	< 0.10	< 0.05	< 2.0	17	45	49	110	< 0.05	< 0.05	< 0.05	< 1.0	2	38	35	75
TSP15-07F	19/02/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	5	44	53	110	< 0.05	< 0.05	< 0.05	< 1.0	2	28	26	30
TSP15-08F	19/02/2025	300	< 0.05	< 0.10	< 0.05	< 2.0	25	80	67	150	< 0.05	< 0.05	< 0.05	< 1.0	3	47	54	100
TSP15-09F	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	21	66	63	150	< 0.05	< 0.05	< 0.05	< 1.0	4	42	42	88
TSP15-10F	19/02/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	22	62	49	130	< 0.05	< 0.05	< 0.05	< 1.0	4	45	36	85
TSP15-11F	19/02/2025	310	< 0.05	< 0.10	< 0.05	< 2.0	20	74	74	170	< 0.05	< 0.05	< 0.05	< 1.0	4	46	59	110
TSP15-12F	19/02/2025	180	< 0.05	< 0.10	< 0.05	10	3	35	35	89	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	37	52	89
TSP15-13F	19/02/2025	390	< 0.05	< 0.10	< 0.05	6	27	45	33	110	< 0.05	< 0.05	< 0.05	< 1.0	4	74	120	200
TSP15-14F	19/02/2025	390	< 0.05	< 0.10	< 0.05	7	19	23	16	65	< 0.05	< 0.05	< 0.05	< 1.0	5	110	78	190
TSP15-15F	19/02/2025	300	< 0.05	< 0.10	< 0.05	13	46	73	48	180	< 0.05	< 0.05	< 0.05	< 1.0	8	41	33	100
TSP15-01G	06-Mar-2025	87	< 0.05	< 0.10	< 0.05	< 2.0	5	17	22	44	< 0.05	< 0.05	< 0.05	< 1.0	1	18	19	45
TSP15-02G	06-Mar-2025	110	< 0.05	< 0.10	< 0.05	< 2.0	5	26	28	57	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	22	22	54
TSP15-03G	06-Mar-2025	120	< 0.05	< 0.10	< 0.05	< 2.0	5	26	26	58	< 0.05	< 0.05	< 0.05	< 1.0	2	28	32	68
TSP15-04G	06-Mar-2025	320	< 0.05	< 0.10	< 0.05	5	48	75	95	180	< 0.05	< 0.05	< 0.05	3.2	14	39	69	160
TSP15-05G	06-Mar-2025	120	< 0.05	< 0.10	< 0.05	< 2.0	8	24	25	58	< 0.05	< 0.05	< 0.05	< 1.0	4	27	27	66
TSP15-06G	06-Mar-2025	120	< 0.05	< 0.10	< 0.05	< 2.0	8	27	24	59	< 0.05	< 0.05	< 0.05	< 1.0	2	24	32	69
TSP15-07G	06-Mar-2025	92	< 0.05	< 0.10	< 0.05	< 2.0	4	19	22	45	< 0.05	< 0.05	< 0.05	< 1.0	1	19	26	54
TSP15-08G	06-Mar-2025	83	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	13	16	32	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	15	15	31
TSP15-09G	06-Mar-2025	170	< 0.05	< 0.10	< 0.05	< 2.0	14	42	33	89	< 0.05	< 0.05	< 0.05	< 1.0	6	29	39	92
TSP15-10G	06-Mar-2025	200	< 0.05	< 0.10	< 0.05	< 2.0	11	38	33	82	< 0.05	< 0.05	< 0.05	< 1.0	8	31	56	110
TSP15-11G	06-Mar-2025	1600	< 0.05	< 0.10	< 0.05	< 2.0	7	21	21	49	< 0.05	< 0.05	< 0.05	< 1.0	3	28	280	310
TSP15-12G	06-Mar-2025	120	< 0.05	< 0.10	< 0.05	< 2.0	7	25	27	60	< 0.05	< 0.05	< 0.05	< 1.0	2	30	38	79
TSP15-13G	06-Mar-2025	120	< 0.05	< 0.10	< 0.05	< 2.0	6	25	29	60	< 0.05	< 0.05	< 0.05	< 1.0	4	24	31	69
TSP15-14G	06-Mar-2025	210	< 0.05	< 0.10	< 0.05	< 2.0	19	46	37	100	< 0.05	< 0.05	< 0.05	1.8	10	33	54	110
TSP15-15G	06-Mar-2025	180	< 0.05	< 0.10	< 0.05	< 2.0	19	33	32	85	< 0.05	< 0.05	< 0.05	< 1.0	8	32	31	90
TSP15-01H	19/03/2025	620	< 0.05	< 0.10	< 0.05	< 2.0	45	200	110	360	< 0.05	< 0.05	< 0.05	< 1.0	4	96	120	180
TSP15-02H	19/03/2025	570	< 0.05	< 0.10	< 0.05	< 2.0	33	140	110	280	< 0.05	< 0.05	< 0.05	4	10	91	110	220
TSP15-03H	19/03/2025	660	< 0.05	< 0.10	< 0.05	3	47	180	110	360	< 0.05	< 0.05	< 0.05	1	10	73	130	220
TSP15-04H	19/03/2025	800	< 0.05	< 0.10	< 0.05	< 2.0	28	120	79	220	< 0.05	< 0.05	< 0.05	< 1.0	16	230	200	450
TSP15-05H	19/03/2025	580	< 0.05	< 0.10	< 0.05	< 2.0	32	120	88	250	< 0.05	< 0.05	< 0.05	< 1.0	4	99	120	230
TSP15-06H	19/03/2025	620	< 0.05	< 0.10	< 0.05	8	39	150	100	330	< 0.05	< 0.05	< 0.05	2	14	140	200	350
TSP15-07H	19/03/2025	550	< 0.05	< 0.10	< 0.05	< 2.0	30	130	84	250	< 0.05	< 0.05	< 0.05	< 1.0	7	71	130	200
TSP15-08H	19/03/2025	580	< 0.05	< 0.10	< 0.05	< 2.0	33	120	78	240	< 0.05	< 0.05	< 0.05	< 1.0	6	84	130	220
TSP15-09H	19/03/2025	540	< 0.05	< 0.10	< 0.05	< 2.0	20	160	79	250	< 0.05	< 0.05	< 0.05	< 1.0	7	43	150	200
TSP15-10H	19/03/2025	550	< 0.05	< 0.10	< 0.05	< 2.0	29	130	33	190	< 0.05	< 0.05	< 0.05	< 1.0	9	83	160	250
TSP15-11H	19/03/2025	640	< 0.05	< 0.10	< 0.05	4	33	140	250	430	< 0.05	< 0.05	< 0.05	1	11	78	45	140
TSP15-12H	19/03/2025	700	< 0.05	< 0.10	< 0.05	< 2.0	39	170	81	380	< 0.05	< 0.05	< 0.05	< 1.0	10	100	190	300
TSP15-13H	19/03/2025	710	< 0.05	< 0.10	< 0.05	6	54	94	46	200	< 0.05	< 0.05	< 0.05	9	38	200	150	400
TSP15-14H	19/03/2025	470	< 0.05	< 0.10	< 0.05	< 2.0	17	110	42	170	< 0.05	< 0.05	< 0.05	< 1.0	8	76	130	210
TSP15-15H	19/03/2025	400	< 0.05	< 0.10	< 0.05	< 2.0	16	92	43	150	< 0.05	< 0.05	< 0.05	< 1.0	3	75	100	180



Final Report

Report No.: 25-06181-1
Initial Date of Issue: 04-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Feb-2025

Order No.: S3240

Date Instructed: 21-Feb-2025

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 04-Mar-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936893	1936894	1936895	1936896	1936897	1936898	1936899			
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-01F	TSP15-02F	TSP15-03F	TSP15-04F	TSP15-05F	TSP15-06F	TSP15-07F			
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.80	1.85	1.85	1.85	1.80	1.75		
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	13	14	13	13	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, and Roots	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	58	5.1	24	14	15	17	8.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	32	56	50	57	45	44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100	47	59	50	65	49	53
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	13	18	18	16	18	15	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	290	84	140	110	140	110	110
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	300	100	160	130	150	130	120
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.8	< 1.0	3.7	1.9	2.4	2.2	1.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	51	28	35	34	41	38	28
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	74	24	35	34	35	35	26
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	53	14	16	16	17	15	15
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	53	73	70	78	75	56
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	190	67	89	85	95	90	71
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	420	140	210	180	210	190	160
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	490	170	250	210	250	220	190
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936893	1936894	1936895	1936896	1936897	1936898	1936899
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-01F	TSP15-02F	TSP15-03F	TSP15-04F	TSP15-05F	TSP15-06F	TSP15-07F
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.80	1.85	1.85	1.80	1.75
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Naphthalene		M	2800	mg/kg	0.10	0.14	< 0.10	0.26	0.20
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.29	0.40
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.30	0.36
Phenanthrene		M	2800	mg/kg	0.10	0.63	0.93	1.2	1.1
Anthracene		M	2800	mg/kg	0.10	0.26	0.45	0.41	0.43
Fluoranthene		M	2800	mg/kg	0.10	2.0	2.3	2.6	2.7
Pyrene		M	2800	mg/kg	0.10	1.9	2.0	2.4	2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0	1.3	1.2	1.5
Chrysene		M	2800	mg/kg	0.10	1.1	1.1	1.1	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	1.9	2.1	2.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.64	0.53	0.66	0.75
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	1.6	1.8	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	1.2	1.4	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.26	< 0.10	0.25	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	1.2	1.4	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	15	18	18
								19	19
								16	17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936900	1936901	1936902	1936903	1936904	1936905	1936906			
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-08F	TSP15-09F	TSP15-10F	TSP15-11F	TSP15-12F	TSP15-13F	TSP15-14F			
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.65	1.70	1.75	1.80	1.80	1.80	1.80	1.80
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	9.5	5.8	7.4
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	25	21	22	20	9.4	27	19
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	60	66	62	74	35	45	23
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	67	63	49	74	35	33	16
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	21	17	14	22	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	150	150	130	170	89	110	65
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	170	170	150	190	89	110	65
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.6	4.4	4.2	3.7	< 1.0	4.1	5.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	47	42	45	46	37	74	110
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54	42	35	59	52	120	78
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	17	16	16	16	77	140
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100	88	85	110	89	200	190
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	110	100	130	100	280	320
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	260	240	220	280	180	310	250
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	300	270	250	310	190	390	390
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181	25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936900	1936901	1936902	1936903	1936904	1936905	1936906	1936907	1936908	1936909
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-08F	TSP15-09F	TSP15-10F	TSP15-11F	TSP15-12F	TSP15-13F	TSP15-14F	TSP15-15F	TSP15-16F	TSP15-17F
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.65	1.70	1.75	1.80	1.80	1.80	1.80	1.80
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.30	< 0.10	0.16	0.26	0.15	0.19	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.91	0.74	0.78	1.1	0.75	1.2	0.90
Anthracene		M	2800	mg/kg	0.10	0.43	0.31	0.34	0.39	0.32	0.45	0.47
Fluoranthene		M	2800	mg/kg	0.10	2.9	2.2	1.9	2.3	2.3	3.1	2.8
Pyrene		M	2800	mg/kg	0.10	2.6	2.0	1.8	2.1	2.0	2.8	2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.6	1.1	0.99	1.2	1.2	1.5	1.4
Chrysene		M	2800	mg/kg	0.10	1.6	0.98	1.1	1.1	0.91	1.2	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.7	1.8	1.6	2.0	2.1	2.4	2.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.80	0.69	0.64	0.69	0.72	0.83	0.74
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	1.6	1.4	1.6	1.7	2.1	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.6	1.2	1.2	1.3	1.4	1.4	1.7
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.22	0.26	0.27	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.4	1.3	0.94	1.3	1.4	1.6	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	19	14	13	16	15	19	18

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936907
Order No.: S3240		Client Sample Ref.:				TSP15
		Client Sample ID.:				TSP15-15F
		Sample Location:				TSP15
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.85
		Date Sampled:				19-Feb-2025
Determinand	HWOL Code	Accred.	SQP	Units	LOD	
Moisture		N	2030	%	0.020	13
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones, Roots and
Soil Texture		N	2040		N/A	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	46
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	73
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	46
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	180
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	8.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	41
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	53
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	280
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	300
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06181
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936907
Order No.: S3240		Client Sample Ref.:				TSP15
		Client Sample ID.:				TSP15-15F
		Sample Location:				TSP15
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.85
		Date Sampled:				19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Naphthalene		M	2800	mg/kg	0.10	0.15
Acenaphthylene		N	2800	mg/kg	0.10	0.13
Acenaphthene		M	2800	mg/kg	0.10	0.14
Fluorene		M	2800	mg/kg	0.10	0.10
Phenanthrene		M	2800	mg/kg	0.10	0.83
Anthracene		M	2800	mg/kg	0.10	0.33
Fluoranthene		M	2800	mg/kg	0.10	2.5
Pyrene		M	2800	mg/kg	0.10	2.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4
Chrysene		M	2800	mg/kg	0.10	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.83
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.26
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	17

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Diben[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

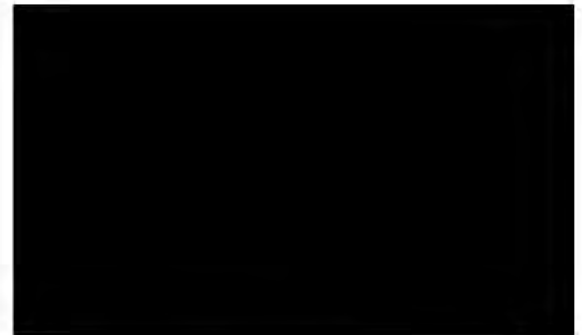
HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Amended Report

Report No.: 25-08201-2

Initial Date of Issue: 18-Mar-2025

Date of Re-Issue: 21-Mar-2025

Re-Issue Details: This report has been revised and directly supersedes 25-08201-1 in its entirety

Client

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 11-Mar-2025

Order No.: S3240

Date Instructed: 11-Mar-2025

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 21-Mar-2025

Approved By:



Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944765	1944766	1944767	1944768	1944769	1944770	1944771	1944772		
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-01G	TSP15-02G	TSP15-03G	TSP15-04G	TSP15-05G	TSP15-06G	TSP15-07G	TSP15-08G		
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.80	1.85	1.85	1.60	1.75	1.70		
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	16	16	16	15	16	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH 2D AL #1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	4.7	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH 2D AL #1	M	2690	mg/kg	1.00	4.6	4.5	5.3	48	8.3	6.1	4.1
Aliphatic EPH >C16-C21 MC	EH 2D AL #1	M	2690	mg/kg	2.00	17	26	26	75	24	27	19
Aliphatic EPH >C21-C35 MC	EH 2D AL #1	M	2690	mg/kg	3.00	22	26	26	55	25	24	22
Aliphatic EPH >C35-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH 2D AL #1	M	2690	mg/kg	5.00	44	57	58	180	59	59	45
Total Aliphatic EPH >C10-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	44	57	58	180	59	59	45
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH 2D AR #1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH 2D AR #1	U	2690	mg/kg	1.00	1.2	< 1.0	1.7	14	4.0	1.6	1.3
Aromatic EPH >C16-C21 MC	EH 2D AR #1	U	2690	mg/kg	2.00	18	22	28	39	27	24	19
Aromatic EPH >C21-C35 MC	EH 2D AR #1	U	2690	mg/kg	2.00	19	22	32	69	27	32	26
Aromatic EPH >C35-C40 MC	EH 2D AR #1	N	2690	mg/kg	1.00	2.7	3.9	4.7	15	5.5	3.4	2.3
Total Aromatic EPH >C10-C35 MC	EH 2D AR #1	U	2690	mg/kg	5.00	45	54	68	160	66	69	54
Total Aromatic EPH >C10-C40 MC	EH 2D AR #1	N	2690	mg/kg	10.00	47	58	73	170	71	73	56
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH 2D Total #1	U	2690	mg/kg	10.00	84	100	120	310	120	120	90
Total EPH >C10-C40 MC	EH 2D Total #1	N	2690	mg/kg	10.00	87	110	120	320	120	120	92
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.34	0.37	0.29	0.30	0.31	0.23	0.26
Acenaphthylene		N	2800	mg/kg	0.10	0.27	0.19	0.12	< 0.10	0.17	0.14	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.60	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944765	1944766	1944767	1944768	1944769	1944770	1944771	1944772	1944772
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-01G	TSP15-02G	TSP15-03G	TSP15-04G	TSP15-05G	TSP15-06G	TSP15-07G	TSP15-08G	TSP15-08G
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.80	1.85	1.65	1.60	1.75	1.70	1.70
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Fluorene		M	2800	mg/kg	0.10	0.55	0.16	< 0.10	< 0.10	0.16	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	10	0.63	0.61	0.59	1.0	0.73
Anthracene		M	2800	mg/kg	0.10	3.0	0.26	0.26	0.22	0.38	0.29
Fluoranthene		M	2800	mg/kg	0.10	16	1.4	1.6	1.7	2.3	1.6
Pyrene		M	2800	mg/kg	0.10	12	1.2	1.4	1.5	2.0	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	5.4	0.78	0.75	0.95	1.1	0.80
Chrysene		M	2800	mg/kg	0.10	5.2	0.74	0.74	0.67	1.0	0.64
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	6.4	1.3	1.4	1.6	1.5	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.4	0.41	0.48	0.54	0.55	0.42
Benzo[a]pyrene		M	2800	mg/kg	0.10	5.4	1.0	1.3	1.3	1.4	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	3.4	0.87	0.96	0.98	1.0	0.80
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.68	< 0.10	< 0.10	0.16	< 0.10	0.13
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	3.1	0.80	1.1	1.0	1.0	0.84
Total Of 16 PAH's		N	2800	mg/kg	2.0	75	10	11	12	14	10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944773	1944774	1944775	1944776	1944777	1944778	1944779			
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-09G	TSP15-10G	TSP15-11G	TSP15-12G	TSP15-13G	TSP15-14G	TSP15-15G			
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.65	1.70	1.75	1.80	1.80	1.65			
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	16	15	16	16	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS 2D AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS 2D AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS 2D AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH 2D AL #1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH 2D AL #1	M	2690	mg/kg	1.00	14	11	6.5	7.1	6.4	19	19
Aliphatic EPH >C16-C21 MC	EH 2D AL #1	M	2690	mg/kg	2.00	42	38	21	25	25	46	33
Aliphatic EPH >C21-C35 MC	EH 2D AL #1	M	2690	mg/kg	3.00	33	33	21	27	29	37	32
Aliphatic EPH >C35-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH 2D AL #1	M	2690	mg/kg	5.00	89	82	49	60	60	100	85
Total Aliphatic EPH >C10-C40 MC	EH 2D AL #1	N	2690	mg/kg	10.00	89	82	49	60	60	100	85
Aromatic VPH >C5-C7	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS 2D AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS 2D AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH 2D AR #1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Aromatic EPH >C12-C16 MC	EH 2D AR #1	U	2690	mg/kg	1.00	6.2	8.0	3.3	1.5	3.9	9.8	8.3
Aromatic EPH >C16-C21 MC	EH 2D AR #1	U	2690	mg/kg	2.00	29	31	28	30	24	33	32
Aromatic EPH >C21-C35 MC	EH 2D AR #1	U	2690	mg/kg	2.00	39	56	280	38	31	54	31
Aromatic EPH >C35-C40 MC	EH 2D AR #1	N	2690	mg/kg	1.00	7.2	28	1200	4.1	4.4	13	4.5
Total Aromatic EPH >C10-C35 MC	EH 2D AR #1	U	2690	mg/kg	5.00	92	110	310	79	69	110	90
Total Aromatic EPH >C10-C40 MC	EH 2D AR #1	N	2690	mg/kg	10.00	99	140	1500	83	73	130	95
Total VPH >C5-C10	HS 2D Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH 2D Total #1	U	2690	mg/kg	10.00	160	180	360	120	120	200	160
Total EPH >C10-C40 MC	EH 2D Total #1	N	2690	mg/kg	10.00	170	200	1600	120	120	210	160
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.36	0.23	0.25	0.26	0.27	0.27	0.28
Acenaphthylene		N	2800	mg/kg	0.10	0.12	< 0.10	< 0.10	0.11	< 0.10	0.11	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201	25-08201
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944773	1944774	1944775	1944776	1944777	1944778	1944779	
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Client Sample ID.:	TSP15-09G	TSP15-10G	TSP15-11G	TSP15-12G	TSP15-13G	TSP15-14G	TSP15-15G	
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	1.70	1.65	1.70	1.75	1.80	1.80	1.65	
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Fluorene		M	2800	mg/kg	0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.2	1.2	0.68	0.53	0.47
Anthracene		M	2800	mg/kg	0.10	0.50	0.35	0.33	0.18	0.22
Fluoranthene		M	2800	mg/kg	0.10	2.5	1.8	2.2	1.4	1.4
Pyrene		M	2800	mg/kg	0.10	2.3	1.4	1.9	1.2	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.8	< 0.10	1.0	0.76	0.66
Chrysene		M	2800	mg/kg	0.10	1.4	< 0.10	1.1	0.59	0.71
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.7	< 0.10	1.6	1.3	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.1	< 0.10	0.53	0.40	0.46
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.1	< 0.10	1.4	1.3	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.6	< 0.10	0.93	0.87	0.91
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	< 0.10	0.99	0.86	0.86
Total Of 16 PAH's		N	2800	mg/kg	2.0	19	5.0	13	9.8	9.6

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASI

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-09741-1

Initial Date of Issue: 02-Apr-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 21-Mar-2025

Order No.: S3240

Date Instructed: 21-Mar-2025

No. of Samples: 15

Turnaround (Wkdays): 5

Results Due: 27-Mar-2025

Date Approved: 02-Apr-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited	Chemtest Job No.:					25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741
Quotation No.: Q25-37100	Chemtest Sample ID.:					1950491	1950492	1950493	1950494	1950495	1950496	1950497	1950498
Order No.: S3240	Client Sample Ref.:					TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
	Client Sample ID.:					TSP15-01H	TSP15-02H	TSP15-03H	TSP15-04H	TSP15-05H	TSP15-06H	TSP15-07H	TSP15-08H
	Sample Location:					TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Bottom Depth (m):					1.75	1.75	1.80	1.85	1.65	1.60	1.75	1.70
	Date Sampled:					19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	5.8	5.5	6.7	5.7	4.3	6.1	5.8	6.5
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
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
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	3.3	< 2.0	< 2.0	7.9	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	45	33	47	26	32	29	30	33
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	200	140	190	120	120	190	130	120
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	110	110	110	79	88	100	84	76
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	360	280	360	220	250	330	250	240
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360	280	360	220	250	330	250	240
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	3.5	1.3	< 1.0	< 1.0	2.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.7	9.6	10	16	3.5	14	7.0	6.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	55	91	73	230	99	140	71	84
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	130	110	130	200	120	200	130	130
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	85	82	90	160	84	140	97	100
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	180	220	220	450	230	350	200	220
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	270	300	310	610	310	490	300	320
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	540	490	570	670	470	680	450	460
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	620	570	660	830	560	820	550	560
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Naphthalene		M	2800	mg/kg	0.10	0.47	0.74	1.1	0.48	0.49	0.58	0.58	0.63

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741
Quotation No.: Q25-37100		Chemtest Sample ID.:	1950491	1950492	1950493	1950494	1950495	1950496	1950497	1950498	1950499	1950500
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Client Sample ID.:	TSP15-01H	TSP15-02H	TSP15-03H	TSP15-04H	TSP15-05H	TSP15-06H	TSP15-07H	TSP15-08H	TSP15-09H	TSP15-10H
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.75	1.80	1.85	1.65	1.60	1.75	1.70	1.75	1.70
		Date Sampled:	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	0.18	< 0.10	0.13	0.12
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.38	2.0	0.41	1.3	0.37	0.43	0.29
Anthracene		M	2800	mg/kg	0.10	0.12	0.21	0.15	0.71	0.16	0.27	0.13
Fluoranthene		M	2800	mg/kg	0.10	0.84	1.7	1.1	3.1	0.94	1.5	2.0
Pyrene		M	2800	mg/kg	0.10	0.80	1.6	1.0	2.5	0.87	1.4	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.50	0.81	0.51	1.2	0.43	0.82	1.0
Chrysene		M	2800	mg/kg	0.10	0.50	0.81	0.64	1.3	0.46	0.87	1.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.75	1.4	0.70	1.6	0.66	1.3	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.25	0.39	0.24	0.49	0.22	0.37	0.44
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.72	1.3	0.52	1.3	0.58	1.0	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.58	0.93	0.52	0.90	0.50	0.75	0.94
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.50	0.95	0.47	0.90	0.56	0.85	0.93
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.4	13	7.4	16	6.2	10	13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741
Quotation No.: Q25-37100		Chemtest Sample ID.:	1950499	1950500	1950501	1950502	1950503	1950504	1950505	
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Client Sample ID.:	TSP15-09H	TSP15-10H	TSP15-11H	TSP15-12H	TSP15-13H	TSP15-14H	TSP15-15H	
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	1.70	1.85	1.70	1.75	1.80	1.80	1.65	
		Date Sampled:	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	7.6	6.9	6.8	6.9	7.2
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	3.6	< 2.0	6.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	29	33	29	54
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	160	130	140	170	94
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	70	33	250	81	46
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	250	190	430	280	200
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	250	190	430	280	200
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	1.0	< 1.0	8.6
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.4	9.3	11	9.6	39
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	42	83	78	100	200
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	150	160	46	190	150
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	94	110	76	110	110
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	200	250	140	300	400
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	290	360	210	410	510
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	450	440	560	580	600
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	540	550	640	700	710
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.49	0.56	0.50	0.57	0.56

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741	25-09741
Quotation No.: Q25-37100		Chemtest Sample ID.:	1950499	1950500	1950501	1950502	1950503	1950504	1950505	
Order No.: S3240		Client Sample Ref.:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Client Sample ID.:	TSP15-09H	TSP15-10H	TSP15-11H	TSP15-12H	TSP15-13H	TSP15-14H	TSP15-15H	
		Sample Location:	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	TSP15	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	1.70	1.85	1.70	1.75	1.80	1.80	1.65	
		Date Sampled:	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	0.12	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.30	0.82	0.49	0.40	0.36
Anthracene		M	2800	mg/kg	0.10	0.13	0.24	0.27	0.15	0.18
Fluoranthene		M	2800	mg/kg	0.10	0.77	1.6	1.5	0.98	1.1
Pyrene		M	2800	mg/kg	0.10	0.77	1.5	1.4	0.94	1.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.42	0.71	0.71	0.50	0.49
Chrysene		M	2800	mg/kg	0.10	0.48	0.76	0.92	0.51	0.53
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.82	1.1	1.4	0.91	0.85
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.19	0.39	0.44	0.32	0.30
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.56	0.79	1.2	0.72	0.69
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.52	0.65	0.93	0.57	0.58
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.46	0.37	1.0	0.61	0.62
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.9	9.8	11	7.3	7.3

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASE

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Test Results

Client/client ref: [REDACTED] Site ref: TSP 15 Date: 04-Apr-2025
 Project ref: S3240 Ardrossan Data description: Statistical analysis for treatment s User details: Edmund Jeffries

Dataset Total TPH	
Sample mean, $\bar{x}$	240.8
Sample standard deviation, s	381.29
Sample size, n	15
Critical concentration, Cc	1000

Use Log-Normal distribution to t

Outliers & non-detects	
Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0

Normality test

Significance lev 5%

Non-normal distribution

Use: Auto: Chebychev

Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Evidence against Null hypothesis:	
	98%
Base decision on:	evidence level
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	Yes
$\mu < C_c$ (re this dataset)	

[Back to data](#)
[Back to summary](#)
[Go to outlier test](#)
[Go to normality test](#)

Treated Stockpile Reuse Validation Form 022 – TSP16**Stockpile ID**

Stockpile ID: TSP16

Material Volume:

603 m³

Validation Samples Included per Round

7 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 26/09/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 9 of 11)	Sample Date: 12/02/2025	Report Number & Date: 25-05317 – 25/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06182 – 04/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08202 – 21/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Date: 25/02/2025

Report Number: 25-05317

Sample ID (Sample Names): TSP16-03E → TSP09-05E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 551 mg/kg Overall, 9th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Date: 04/03/2025

Report Number: 25-06182

Sample ID (Sample Names): TSP6-03F → TSP16-09F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 307 mg/kg Overall, 10th round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-08202

Report Date: 21/03/2025

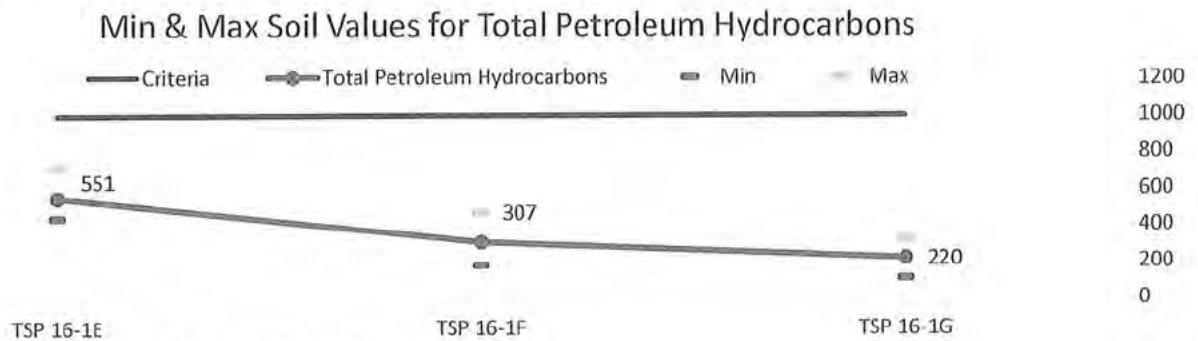
Sample ID (Sample Names): TSP16-03G → TSP16-09G

Report ID (Lab): Eurofins

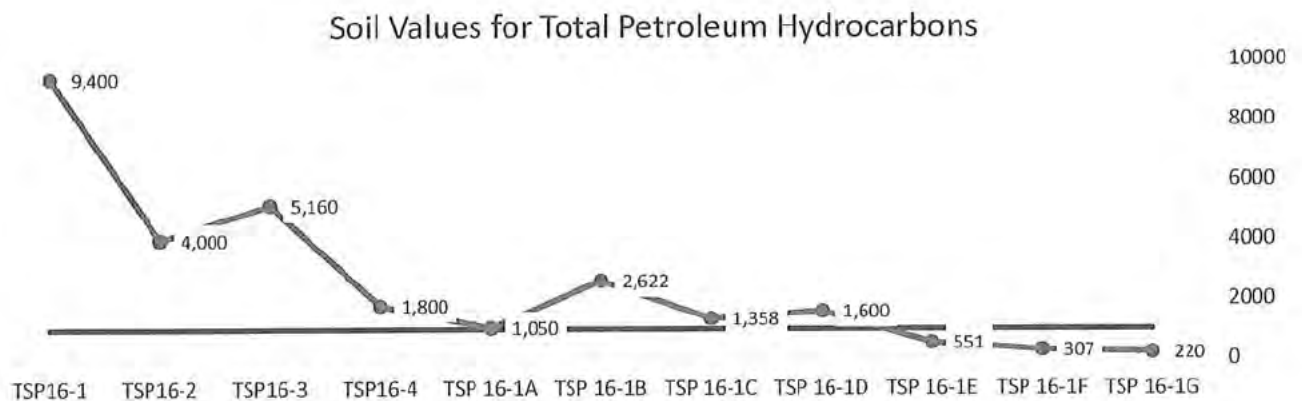
Comments:

Test Results: PASS / FAIL

Average total TPH = 220 mg/kg. Overall, 11th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review**Data Trend for Total TPH levels:****Additional Trendline Data – long term review:**

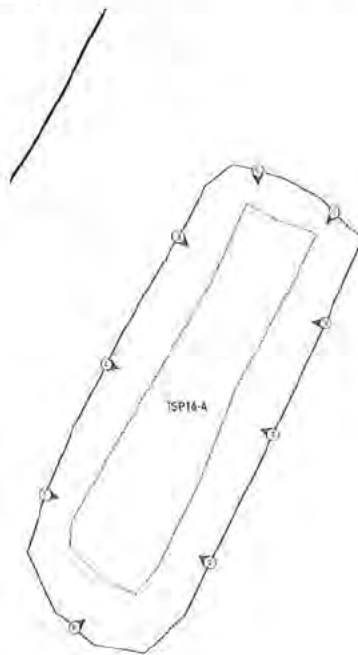
Further to the above spread of data for the final 3 No. rounds, the total TPH levels from September 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 97.65% when compared to the material's initial total TPH level (9,400 mg/kg (26th September 2024), compared to the final round's average of 220 mg/kg (6th March 2025)):



Suitability verification sample

Due to verification results being above the reuse criteria for positions 16-01 and 16-02, 200m³ of material was removed from the original stockpile TSP16 to create a new stockpile TSP25. This declaration will not discuss the content of this new stockpile and the relevant results for the previous positions 16-01 and 16-02 will be discussed in a future declaration.

Following this material removal and in order to confirm that the remaining material within TSP 16 (location 16-03 to 16-09) is suitable for re-use, two additional verification samples were taken adjacent to the areas removed for stockpile TSP25. Both of these samples were taken in the same manner as the previous validation samples and indicated an average total TPH level of 74 mg/kg. As such, Sanctus deem the unsuitable material to have been fully removed from stockpile TSP16. These two validation results are shown below within the Stockpile data.

Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, in the spirit of BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.

Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with no exceedances of the accepted reuse criteria. No exceedances within the banded Hydrocarbon fractions are seen within all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME

POSITION: Senior Environmental Engineer

DATE: 15/04/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

For Sanctus Use Only:

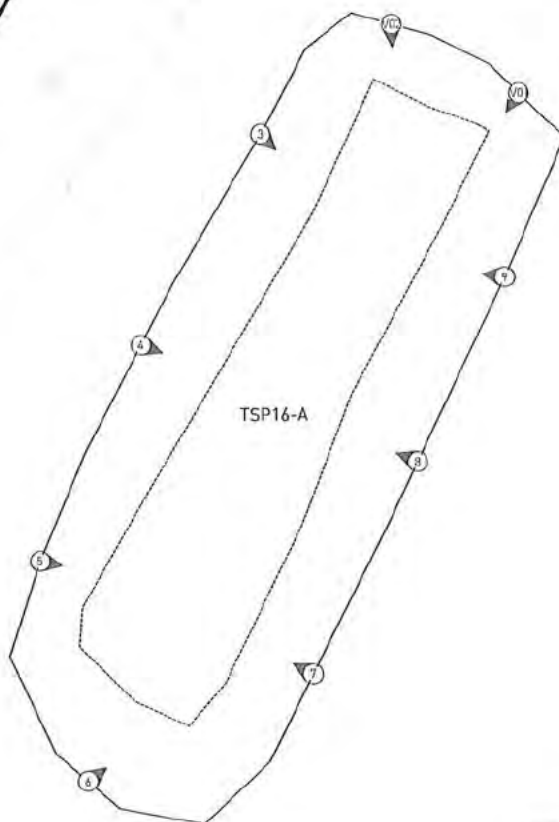
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



TSP16-A

0m 2m 4m 8m

Site Map:

Area of Interest



Scale: 1:8,000

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group.
23/03/2020. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	10/04/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 16-A Sample Location Plan

Contract No:
53240

Drawing No:
D3240/121

Scale @ A3:
1:200 / See Inset

Drawn By:
JH

QC Check By:
ARW

Approved By:
ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C8	Aliphatic TPH >C8-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C14	Aliphatic TPH >C14-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C35-C39	Aromatic TPH >C5-C7	Aromatic TPH >C7-C9	Aromatic TPH >C9-C10	Aromatic TPH >C10-C12	Aromatic TPH >C12-C16	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35	Aromatic TPH >C35-C39
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOD		10	0.02	0.02	0.03	1	2	6	6		0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000		140	390	734	463	173.47	540	1000	
TSP16-03E	12/02/2025	440	< 0.05	< 0.10	< 0.05	< 2.0	36	98	110	250	< 0.05	< 0.05	< 0.05	< 1.0	13	48	61	120
TSP16-04E	12/02/2025	540	< 0.05	< 0.10	< 0.05	< 2.0	48	130	130	310	< 0.05	< 0.05	< 0.05	< 1.0	18	55	80	150
TSP16-05E	12/02/2025	500	< 0.05	< 0.10	< 0.05	< 2.0	42	130	120	290	< 0.05	< 0.05	< 0.05	< 1.0	20	49	58	140
TSP16-06E	12/02/2025	580	< 0.05	< 0.10	< 0.05	< 2.0	60	140	150	350	< 0.05	< 0.05	< 0.05	< 1.0	14	56	79	150
TSP16-07E	12/02/2025	720	< 0.05	< 0.10	< 0.05	11	91	180	190	470	< 0.05	< 0.05	< 0.05	5	18	67	82	170
TSP16-08E	12/02/2025	540	< 0.05	< 0.10	< 0.05	< 2.0	46	120	150	310	< 0.05	< 0.05	< 0.05	< 1.0	12	50	76	140
TSP16-09E	12/02/2025	640	< 0.05	< 0.10	< 0.05	2	42	95	100	240	< 0.05	< 0.05	< 0.05	< 1.0	18	51	109	210
TSP16-03F	19/02/2025	180	< 0.05	< 0.10	< 0.05	7	22	35	33	96	< 0.05	< 0.05	< 0.05	< 1.0	2	30	39	70
TSP16-04F	19/02/2025	200	< 0.05	< 0.10	< 0.05	6	20	23	30	79	< 0.05	< 0.05	< 0.05	< 1.0	3	42	62	110
TSP16-05F	19/02/2025	440	< 0.05	< 0.10	< 0.05	8	45	72	47	170	< 0.05	< 0.05	< 0.05	< 1.0	13	84	120	220
TSP16-06F	19/02/2025	470	< 0.05	< 0.10	< 0.05	6	32	85	48	170	< 0.05	< 0.05	< 0.05	< 1.0	12	89	130	230
TSP16-07F	19/02/2025	430	< 0.05	< 0.10	< 0.05	7	36	76	44	160	< 0.05	< 0.05	< 0.05	< 1.0	13	64	100	180
TSP16-08F	19/02/2025	220	< 0.05	< 0.10	< 0.05	7	15	34	31	86	< 0.05	< 0.05	< 0.05	< 1.0	4	60	53	120
TSP16-09F	19/02/2025	210	< 0.05	< 0.10	< 0.05	7	21	40	31	98	< 0.05	< 0.05	< 0.05	< 1.0	5	40	47	92
TSP16-03G	06/03/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	23	70	61	140	< 0.05	< 0.05	< 0.05	< 1.0	6	31	44	80
TSP16-04G	06/03/2025	320	< 0.05	< 0.10	< 0.05	< 2.0	52	85	74	210	< 0.05	< 0.05	< 0.05	< 1.0	15	46	39	100
TSP16-05G	06/03/2025	130	< 0.05	< 0.10	< 0.05	< 2.0	2	33	33	68	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	38	54
TSP16-06G	06/03/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	2	21	32	56	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	38	54
TSP16-07G	06/03/2025	110	< 0.05	< 0.10	< 0.05	2	5	25	29	61	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	13	33	47
TSP16-08G	06/03/2025	220	< 0.05	< 0.10	< 0.05	10	29	30	29	99	< 0.05	< 0.05	< 0.05	2	4	32	91	130
TSP16-09G	06/03/2025	300	< 0.05	< 0.10	< 0.05	< 2.0	15	45	40	100	< 0.05	< 0.05	< 0.05	< 1.0	1	43	89	130
TSP16-V01	27/03/2025	95	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	8	9	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8	45	52
TSP16-V03	27/03/2025	82	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	10	11	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	9	54	63



Final Report

Report No.: 25-05317-1

Initial Date of Issue: 25-Feb-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 14-Feb-2025

Order No.: S3240

Date Instructed: 14-Feb-2025

No. of Samples: 9

Turnaround (Wkdays): 5

Results Due: 20-Feb-2025

Date Approved: 25-Feb-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932890	1932891	1932892	1932893	1932894	1932895	1932896	1932897	1932898	1932899
Order No.: S3240		Client Sample Ref.:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:	TSP16-01E	TSP16-02E	TSP16-03E	TSP16-04E	TSP16-05E	TSP16-06E	TSP16-07E	TSP16-08E	TSP16-09E	TSP16-10E
		Sample Location:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.65	1.85	1.70	1.65	1.70	1.75	1.65	1.60	1.60	1.60
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	13	13	14	14	13	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	5.4	< 2.0	< 2.0	< 2.0	11	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	33	81	36	48	42	60	91
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	80	200	98	130	130	140	180
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	170	110	130	120	150	190
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	64	45	36	44	42	40	43
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	230	450	250	310	290	350	470
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	300	500	280	360	330	390	510
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	15	17	13	18	20	14	18
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	49	70	48	55	49	56	67
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	57	110	61	80	68	79	82
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	31	52	34	35	29	39	38
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	200	120	150	140	150	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	150	250	160	190	170	190	210
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	350	650	370	460	430	500	640
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	450	750	440	540	500	580	720
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.13	0.18	0.14	0.14	< 0.10	0.11	0.12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317	25-05317
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932890	1932891	1932892	1932893	1932894	1932895	1932896	1932897
Order No.: S3240		Client Sample Ref.:				TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:				TSP16-01E	TSP16-02E	TSP16-03E	TSP16-04E	TSP16-05E	TSP16-06E	TSP16-07E	TSP16-08E
		Sample Location:				TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.65	1.85	1.70	1.65	1.70	1.75	1.65	1.60
		Date Sampled:				12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	0.20	0.25	0.29	0.21	< 0.10	0.12	0.10	0.24
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	0.15	< 0.10	< 0.10	< 0.10	0.12
Fluorene		M	2800	mg/kg	0.10	0.11	< 0.10	0.30	0.43	< 0.10	< 0.10	0.10	0.21
Phenanthrene		M	2800	mg/kg	0.10	1.0	2.7	1.4	1.2	0.20	0.50	0.51	2.7
Anthracene		M	2800	mg/kg	0.10	0.45	0.86	0.43	0.57	< 0.10	0.23	0.25	0.83
Fluoranthene		M	2800	mg/kg	0.10	2.5	9.0	3.5	2.1	0.54	2.0	1.3	5.8
Pyrene		M	2800	mg/kg	0.10	2.8	7.5	2.9	1.9	0.53	2.0	1.2	4.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4	4.2	1.5	1.1	0.29	0.77	0.60	2.8
Chrysene		M	2800	mg/kg	0.10	1.0	4.4	1.2	1.1	0.27	0.94	0.42	2.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	6.2	2.3	1.7	0.54	1.6	1.1	4.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.62	2.1	0.81	0.80	0.18	0.57	0.32	1.5
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.8	4.9	1.9	1.3	0.45	1.0	0.91	3.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.96	3.5	1.4	1.2	0.41	0.85	0.70	2.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.19	0.57	0.24	0.39	< 0.10	< 0.10	< 0.10	0.33
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	3.2	1.4	1.3	0.42	0.98	0.74	2.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	50	20	16	3.8	12	8.4	34

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05317
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932898
Order No.: S3240		Client Sample Ref.:				TSP16
		Client Sample ID.:				TSP16-09E
		Sample Location:				TSP16
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.65
		Date Sampled:				12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	13
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	42
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	95
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	40
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	240
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	280
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	18
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	91
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	100
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	44
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	210
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	260
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	450
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	540
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05317
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932898
Order No.: S3240		Client Sample Ref.:				TSP16
		Client Sample ID.:				TSP16-09E
		Sample Location:				TSP16
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.65
		Date Sampled:				12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.19
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.62
Pyrene		M	2800	mg/kg	0.10	0.64
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.34
Chrysene		M	2800	mg/kg	0.10	0.32
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.64
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.16
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.50
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.42
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.48
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.3

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Diben[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- 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 - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-06182-1

Initial Date of Issue: 04-Mar-2025

Re-Issue Details:

Client

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Feb-2025

Order No.: S3240

Date Instructed: 21-Feb-2025

No. of Samples: 9

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 04-Mar-2025

Approved By:



Details:



Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936908	1936909	1936910	1936911	1936912	1936913	1936914	
Order No.: S3240		Client Sample Ref.:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:	TSP16-01F	TSP16-02F	TSP16-03F	TSP16-04F	TSP16-05F	TSP16-06F	TSP16-07F	
		Sample Location:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Bottom Depth (m):	1.85	1.85	1.70	1.85	1.70	1.75	1.85	
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	11	7.9	7.2	6.0	5.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	28	28	22	20	45
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	56	38	35	23	72
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	52	40	32	30	47
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	150	110	96	79	170
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	150	120	96	79	170
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.8	5.4	1.5	2.7	13
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	50	48	30	42	84
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	63	37	39	62	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	13	13	14	57
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	89	70	110	220
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	100	83	120	270
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	270	200	170	190	390
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	280	230	180	200	440
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.14	< 0.10	0.15	0.14	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182	25-06182
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936908	1936909	1936910	1936911	1936912	1936913	1936914	1936914
Order No.: S3240		Client Sample Ref.:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:	TSP16-01F	TSP16-02F	TSP16-03F	TSP16-04F	TSP16-05F	TSP16-06F	TSP16-07F	TSP16-07F
		Sample Location:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.85	1.85	1.70	1.85	1.70	1.75	1.85	1.85
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Acenaphthylene		N	2800	mg/kg	0.10	0.14	< 0.10	0.14	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.14	< 0.10	< 0.10	0.13	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.98	0.77	0.72	0.66	1.0
Anthracene		M	2800	mg/kg	0.10	0.38	0.32	0.29	0.24	0.47
Fluoranthene		M	2800	mg/kg	0.10	2.4	2.0	2.2	2.0	2.2
Pyrene		M	2800	mg/kg	0.10	2.2	1.8	2.0	1.8	2.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	1.1	1.2	0.92	1.3
Chrysene		M	2800	mg/kg	0.10	1.1	1.1	0.92	0.99	1.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.1	2.0	2.2	1.6	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.75	0.71	0.64	0.56	0.73
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.9	1.7	1.8	1.3	1.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5	1.3	1.3	0.99	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.27	0.18	0.27	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	1.4	1.3	1.2	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	17	14	15	13	15
										20
										13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06182	25-06182
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936915	1936916
Order No.: S3240		Client Sample Ref.:				TSP16	TSP16
		Client Sample ID.:				TSP16-08F	TSP16-09F
		Sample Location:				TSP16	TSP16
		Sample Type:				SOIL	SOIL
		Bottom Depth (m):				1.80	1.70
		Date Sampled:				19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	14	14
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	7.0	6.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	21
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	34	40
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	31	31
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	86	98
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	86	98
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.6	4.6
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	60	40
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	53	47
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	17
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	92
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	110
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	200	190
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	210
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
Napthalene		M	2800	mg/kg	0.10	0.20	0.19

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06182	25-06182
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936915	1936916
Order No.: S3240		Client Sample Ref.:				TSP16	TSP16
		Client Sample ID.:				TSP16-08F	TSP16-09F
		Sample Location:				TSP16	TSP16
		Sample Type:				SOIL	SOIL
		Bottom Depth (m):				1.80	1.70
		Date Sampled:				19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	0.20	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.14	0.26
Fluorene		M	2800	mg/kg	0.10	0.17	0.37
Phenanthrene		M	2800	mg/kg	0.10	0.99	3.2
Anthracene		M	2800	mg/kg	0.10	0.38	1.0
Fluoranthene		M	2800	mg/kg	0.10	3.2	6.4
Pyrene		M	2800	mg/kg	0.10	2.8	5.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.7	2.9
Chrysene		M	2800	mg/kg	0.10	1.6	2.7
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.4	4.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.87	1.4
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	3.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.6	2.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.27	0.33
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	2.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	20	36

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASI

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-08202-1
Initial Date of Issue: 21-Mar-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 11-Mar-2025

Order No.: S3240

Date Instructed: 11-Mar-2025

No. of Samples: 9

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 21-Mar-2025

Approved By:

Details:

Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944780	1944781	1944782	1944783	1944784	1944785	1944786			
Order No.: S3240		Client Sample Ref.:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:	TSP16-01G	TSP16-02G	TSP16-03G	TSP16-04G	TSP16-05G	TSP16-06G	TSP16-07G			
		Sample Location:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.65	1.65	1.70	1.65	1.70	1.75	1.65			
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	16	16	15	16	16	16	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	7.1	15	23	52	1.9	2.3	5.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	27	53	70	85	33	21	25
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	27	37	51	74	33	32	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	13	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	62	110	140	210	69	56	61
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	62	110	160	210	69	56	61
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.9	7.7	6.0	15	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	23	31	31	46	16	16	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	250	310	44	39	38	38	33
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1200	1200	16	11	6.7	4.6	5.4
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	280	350	80	100	54	54	47
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	1500	1500	96	110	61	58	52
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	340	450	220	310	120	110	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	1600	1600	250	320	130	110	110
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	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
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202	25-08202
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944780	1944781	1944782	1944783	1944784	1944785	1944786	1944786
Order No.: S3240		Client Sample Ref.:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Client Sample ID.:	TSP16-01G	TSP16-02G	TSP16-03G	TSP16-04G	TSP16-05G	TSP16-06G	TSP16-07G	TSP16-07G
		Sample Location:	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16	TSP16
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.65	1.65	1.70	1.65	1.70	1.75	1.65	1.65
		Date Sampled:	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Naphthalene		M	2800	mg/kg	0.10	0.22	0.27	0.25	0.23	0.28
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.18	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.8	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.72	0.46	0.56	10	0.45
Anthracene		M	2800	mg/kg	0.10	0.22	0.16	0.22	3.2	0.19
Fluoranthene		M	2800	mg/kg	0.10	1.6	1.0	1.5	15	1.5
Pyrene		M	2800	mg/kg	0.10	1.4	0.99	1.4	11	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.81	0.50	0.80	5.7	0.77
Chrysene		M	2800	mg/kg	0.10	0.77	0.60	0.61	5.1	0.66
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	0.91	1.4	6.3	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.35	0.28	0.40	2.3	0.40
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	0.76	1.2	4.6	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.76	0.61	0.90	2.9	0.92
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.13	< 0.10	< 0.10	0.63	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.83	0.65	0.85	2.7	0.79
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	7.2	10	73	9.7

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08202	25-08202
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944787	1944788
Order No.: S3240		Client Sample Ref.:				TSP16	TSP16
		Client Sample ID.:				TSP16-08G	TSP16-09G
		Sample Location:				TSP16	TSP16
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.60	1.70
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	16	16
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	26	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	30	45
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	26	40
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	23	43
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	95	100
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	120	140
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.8	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.0	1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	52	43
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	91	89
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	48	20
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	150	130
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200	150
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	240	230
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	320	300
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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08202	25-08202
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944787	1944788
Order No.: S3240		Client Sample Ref.:				TSP16	TSP16
		Client Sample ID.:				TSP16-08G	TSP16-09G
		Sample Location:				TSP16	TSP16
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.60	1.70
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.24	0.26
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.50	0.45
Anthracene		M	2800	mg/kg	0.10	0.21	0.18
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.5
Pyrene		M	2800	mg/kg	0.10	1.3	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.70	0.78
Chrysene		M	2800	mg/kg	0.10	0.72	0.65
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.40
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.90	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.70	0.81
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.83	0.79
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.0	9.6

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASE

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Treated Stockpile Reuse Validation Form 023 – TSP25

Stockpile ID

Stockpile ID: TSP25

Material Volume:

200 m³

Validation Samples Included per Round

2 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 27/03/2025

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 1 of 3)	Sample Date: 27/03/2025	Report Number & Date: 25-11125 – 10/04/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 2 of 3)	Sample Date: 08/04/2025	Report Number & Date: 25-12101 – 22/04/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 3 of 3)	Sample Date: 15/04/2025	Report Number & Date: 25-13018 – 25/04/2025	Lab: Eurofins

Sampling Data

Passing Round 1

Report Date: 10/04/2025

Report Number: 25-11125

Sample ID (Sample Names): TSP25-01A → TSP25-02A

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 110 mg/kg Overall, 1st round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Date: 22/04/2025

Report Number: 25-12101

Sample ID (Sample Names): TSP25-01B → TSP25-02B

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 230 mg/kg Overall, 2nd round of sampling undertaken from the treated Stockpile.
No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-13018

Report Date: 25/04/2025

Sample ID (Sample Names): TSP25-01C → TSP25-02C

Report ID (Lab): Eurofins

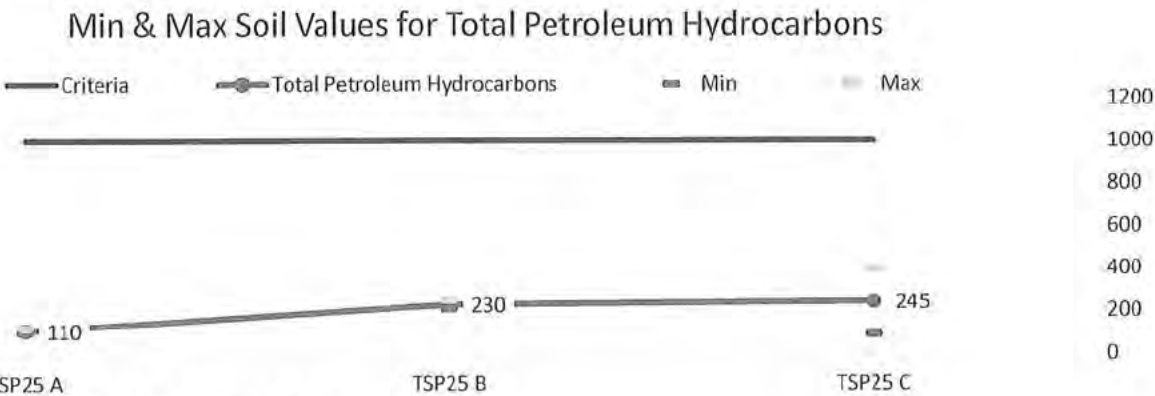
Comments:

Test Results: PASS / FAIL

Average total TPH = 245 mg/kg Overall, 3rd round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

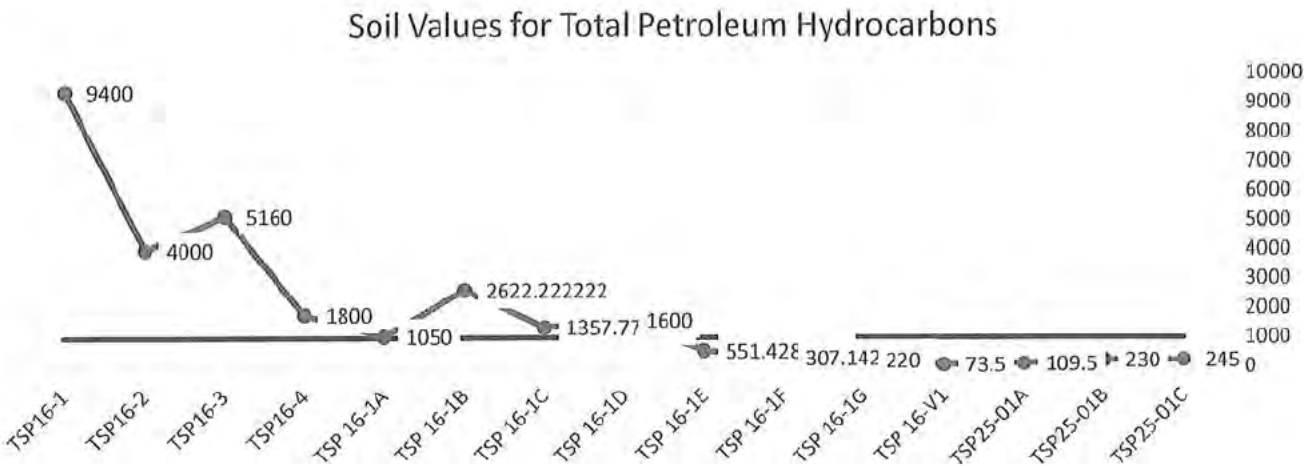
Data Review

Data Trend for Total TPH levels:



Additional Trendline Data – long term review:

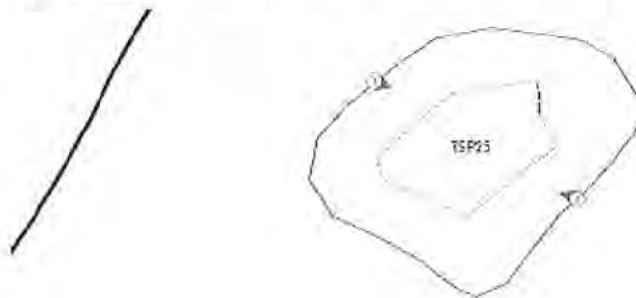
Further to the above spread of data for the final 3 No. rounds, the total TPH levels from September 2024, for the treated stockpile (originally TSP16), are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 97.39 % when compared to the material's initial total TPH level from its original stockpile (TSP16 - 9,400 mg/kg, 26th September 2024). This initial total TPH level was compared to TSP25's third and final round's average of 245 mg/kg (6th March 2025)). Following from the removal of TSP16-01 and TSP16-02 and the creation of TSP 025, the initial 3No. concurrent sampling rounds were all seen to be suitable.



Suitability verification sample and long term review

Due to verification results being above the reuse criteria for positions 16-01 and 16-02, 200m³ of material was removed from the original stockpile TSP16 to form a new stockpile TSP25 by excavation and reforming the material as TSP25. This declaration will not discuss TSP16 further than to explain where the material for the newly created stockpile has originated and will only discuss the suitability of the newly created stockpile TSP 25.

The material that has been used in the creation of TSP25 originated from TSP16. The material from monitoring location 01 and 02 had already exhibited reduction in total TPH, but were still at levels above 1,000 mg/kg when excavated. This material was then turned and reformed prior to being sampled and subsequently exhibited 3No. suitable, successive set of testing rounds for total TPH, which are displayed within this declaration previously.

Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, in the spirit of BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed

material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.

- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.

Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with no exceedances of the accepted reuse criteria. No exceedances within the banded Hydrocarbon fractions are seen within all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME:

POSITION: Senior Environmental Engineer

DATE: 28/04/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

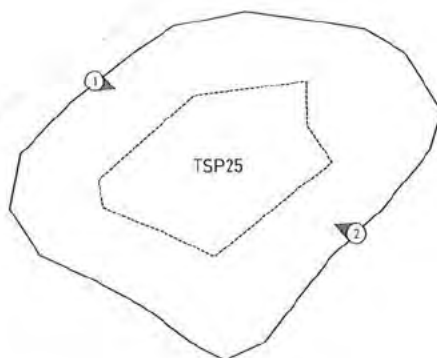
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



Site Map:

Area of Interest



Scale: 1:8,000

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group.
23/03/2020. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	10/04/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 25 Sample Location Plan

Contract No:
53240

Drawing No:
D3240/122

Scale @ A3:
1:200 / See Inset

Drawn By:
JH

QC Check By:
ARW

Approved By:
ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C8	Aliphatic TPH >C8-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C14	Aliphatic TPH >C14-C16	Aliphatic TPH >C16-C18	Aliphatic TPH >C18-C20	Aliphatic TPH >C20-C22	Aromatic TPH >C5-C7	Aromatic TPH >C7-C9	Aromatic TPH >C9-C11	Aromatic TPH >C11-C13	Aromatic TPH >C13-C15	Aromatic TPH >C15-C17	Aromatic TPH >C17-C19	Aromatic TPH >C19-C21
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOD		10	0.02	0.02	0.05	1	2	5	5			0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000			145	290	734	483	17347	540	1000	
TSP25-01A	27/03/2025	99	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	14	15		< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	13	65	78
TSP25-02A	27/03/2025	120	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	13	15		< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	18	78	96
TSP25-01B	08/04/2025	210	< 0.05	< 0.10	< 0.05	3	38	170	120	330		< 0.05	< 0.05	< 0.05	< 1.0	5	37	99	140
TSP25-02B	08/04/2025	250	< 0.05	< 0.10	< 0.05	5	37	170	160	320		< 0.05	< 0.05	< 0.05	< 1.0	8	22	120	150
TSP25-01C	15/04/2025	90	< 0.05	< 0.10	< 0.05	< 2.0	4	23	15	43		< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	19	22	42
TSP25-02C	15/04/2025	400	< 0.05	< 0.10	< 0.05	< 2.0	26	130	57	220		< 0.05	< 0.05	< 0.05	< 1.0	10	66	86	160



Final Report

Report No.: 25-11125-1
Initial Date of Issue: 10-Apr-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 01-Apr-2025

Order No.: S3240

Date Instructed: 01-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 07-Apr-2025

Date Approved: 10-Apr-2025

Approved By:

Details: Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-11125	25-11125
Quotation No.: Q25-37100		Chemtest Sample ID.:				1955362	1955363
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01A	TSP25-02A
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				27-Mar-2025	27-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	8.8	9.2
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	14	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	15	15
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	15
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	13	18
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	65	78
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	6.5	7.8
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	78	96
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	84	100
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	93	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	99	120
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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-11125	25-11125
Quotation No.: Q25-37100		Chemtest Sample ID.:				1955362	1955363
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01A	TSP25-02A
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				27-Mar-2025	27-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.4	1.5
Anthracene		M	2800	mg/kg	0.10	0.45	0.56
Fluoranthene		M	2800	mg/kg	0.10	4.0	4.1
Pyrene		M	2800	mg/kg	0.10	3.5	3.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.9	2.1
Chrysene		M	2800	mg/kg	0.10	2.0	2.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.2	3.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.1	1.2
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.4	2.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.6	1.9
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.55
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	1.9
Total Of 16 PAH's		N	2800	mg/kg	2.0	23	25

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASE

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-12101-1
Initial Date of Issue: 22-Apr-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 10-Apr-2025

Order No.: S3240

Date Instructed: 10-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 16-Apr-2025

Date Approved: 22-Apr-2025

Approved By:

Details: Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-12101	25-12101
Quotation No.: Q25-37100		Chemtest Sample ID.:				1958773	1958774
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01B	TSP25-02B
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				08-Apr-2025	08-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	6.4	8.2
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.6	4.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	38	37
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	170
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	100
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	330	320
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	330	320
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.2	8.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	37	22
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	99	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	65	99
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	150
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	210	250
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	470	470
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	530	570
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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-12101	25-12101
Quotation No.: Q25-37100		Chemtest Sample ID.:				1958773	1958774
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01B	TSP25-02B
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				08-Apr-2025	08-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.23	0.23
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.66	0.40
Anthracene		M	2800	mg/kg	0.10	0.34	0.71
Fluoranthene		M	2800	mg/kg	0.10	1.5	1.3
Pyrene		M	2800	mg/kg	0.10	1.4	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.62
Chrysene		M	2800	mg/kg	0.10	0.79	0.79
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.49
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.90	0.96
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.68	0.88
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.72	0.83
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.4	9.7

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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

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Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_ASE

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-13018-1
Initial Date of Issue: 25-Apr-2025

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q25-37100

Date Received: 17-Apr-2025

Order No.: S3240

Date Instructed: 17-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 25-Apr-2025

Date Approved: 25-Apr-2025

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-13018	25-13018
Quotation No.: Q25-37100		Chemtest Sample ID.:				1962276	1962277
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01C	TSP25-02C
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0	0
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				15-Apr-2025	15-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	6.6	6.4
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	3.5	26
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	23	130
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	16	57
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	43	220
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	43	220
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	10
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	66
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	22	86
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.6	22
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	42	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	47	180
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	84	380
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	90	400
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
Naphthalene		M	2800	mg/kg	0.10	0.59	0.29

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-13018	25-13018
Quotation No.: Q25-37100		Chemtest Sample ID.:				1962276	1962277
Order No.: S3240		Client Sample Ref.:				TSP25	TSP25
		Client Sample ID.:				TSP25-01C	TSP25-02C
		Sample Location:				TSP25	TSP25
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0	0
		Bottom Depth (m):				1.50	1.65
		Date Sampled:				15-Apr-2025	15-Apr-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	0.19	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.19	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.16	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.85	0.48
Anthracene		M	2800	mg/kg	0.10	0.55	0.58
Fluoranthene		M	2800	mg/kg	0.10	2.6	1.4
Pyrene		M	2800	mg/kg	0.10	2.7	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.5	0.86
Chrysene		M	2800	mg/kg	0.10	1.6	0.95
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.4	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.2	0.54
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.5	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.2	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.53	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.3	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	23	12

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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 <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
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.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS	

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
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

NEW_AS

DURHAM

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

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.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix K [REDACTED] Bioremediation Stock Pile Monitoring Data



For the attention of:
Subcon



CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT001/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date [Time Taken: Unknown]Unknown

Sample Information * TSP14A	
Batch Code 1908812	Soil
	Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	27000	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [Redacted] Laboratory Manager (Microbiology)



u/a = This method is not included in the Laboratory's UKAS scope of accreditation
*Sample information as supplied by Customer.

Any opinions or interpretations are outside the scope of the Laboratory's UKAS accreditation.
This report shall not be reproduced, except in full, without the approval of [Redacted]
The results stated relate only to the samples as detailed and are expressed on as received basis, unless otherwise stated.



For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT002/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date [Time Taken: Unknown]Unknown

Sample Information * TSP14B	
Batch Code 1908813	Soil
	Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	300	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [REDACTED], Laboratory Manager (Microbiology)

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For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT003/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date [Time Taken: Unknown]Unknown

Sample Information * TSP15

Batch Code 1908814

Soil

Job No. 24-40858

<u>Method</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>
Presumptive Coliforms	AM/M: 02-1	<100	cfu/g u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [Redacted], Laboratory Manager (Microbiology)

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Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT004/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP16

Batch Code 1908815

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	400	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [REDACTED]y [REDACTED]g, Laboratory Manager (Microbiology)

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Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT005/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date /Time Taken: Unknown/Unknown

Sample Information * TSP17

Batch Code 1908816 Soil
Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	200	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [REDACTED], Laboratory Manager (Microbiology)

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Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT006/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP18	
Batch Code 1908817	Soil
	Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	2300	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [REDACTED], Laboratory Manager (Microbiology)

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The results stated relate only to the samples as detailed and are expressed on as received basis, unless otherwise stated.

Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT007/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP19

Batch Code 1908818

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	4000	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Authorised By: [REDACTED], Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation
*Sample information as supplied by Customer.

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Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT008/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP20

Batch Code 1908819

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	24000	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation

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Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT009/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP21

Batch Code 1908820

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	<100	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation

*Sample information as supplied by Customer.

Any opinions or interpretations are outside the scope of the Laboratory's UKAS accreditation.

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The results stated relate only to the samples as detailed and are expressed on as received basis, unless otherwise stated.

Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT010/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown.

Sample Information * TSP22

Batch Code 1908821

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit
Presumptive Coliforms	AM/M: 02-1	100	cfu/g u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation

*Sample information as supplied by Customer.

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The results stated relate only to the samples as detailed and are expressed on as received basis, unless otherwise stated.

Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT011/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP23

Batch Code 1908822

Soil

Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	2000	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation
*Sample information as supplied by Customer.

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The results stated relate only to the samples as detailed and are expressed on as received basis, unless otherwise stated.

Page 1 of 1

For the attention of:

CERTIFICATE OF ANALYSIS
(Microbiology)

Report Date 20-Dec-24
ATL Reference ECT012/353/24
Date Received 18-Dec-24
Test Date 18-Dec-24
Purchase Order 28172
Sampled By Samples as Received

Sample of: Ash/Other , Date |Time Taken: Unknown|Unknown

Sample Information * TSP24

Batch Code 1908823 Soil
Job No. 24-40858

Method	Method Reference	Result	Unit	
Presumptive Coliforms	AM/M: 02-1	100	cfu/g	u/a
Total Viable Count 30°C for 48hrs	AM/M: 01-1	Est >300000	cfu/g	u/a

Est = Denotes Estimated Count (Colony number exceeds maximum level) at highest dilution

Laboratory Manager (Microbiology)

u/a = This method is not included in the Laboratory's UKAS scope of accreditation
*Sample information as supplied by Customer.

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Page 1 of 1

Final Report

Report No.: 24-40858-1

Initial Date of Issue: 23-Dec-2024

Re-Issue Details:

Client

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 12-Dec-2024

Order No.: S3240

Date Instructed: 13-Dec-2024

No. of Samples: 12

Turnaround (Wkdays): 7

Results Due: 23-Dec-2024

Date Approved: 23-Dec-2024

Subcon Results Due: 07-Jan-2025

Approved By:

Details:

Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-40858	24-40858	24-40858	24-40858	24-40858	24-40858	24-40858
Quotation No.: Q24-35340		Chemtest Sample ID.:	1908812	1908813	1908814	1908815	1908816	1908817	1908818
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14B	TSP15	TSP16	TSP17	TSP18	TSP19
		Client Sample ID.:	TSP14A	TSP14B	TSP15	TSP16	TSP17	TSP18	TSP19
		Sample Location:	TSP14A	TSP14B	TSP15	TSP16	TSP17	TSP18	TSP19
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.60	1.70	1.65	1.80	1.75	1.90	1.70
		Date Sampled:	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Tot Coliforms Presumptive (Subcon)		SN		cfu/g	N/A	See Attached	See Attached	See Attached	See Attached
TVC @ 30C (Subcon)		SN		cfu/g	N/A	See attached.	See attached.	See attached.	See attached.

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-40858	24-40858	24-40858	24-40858	24-40858
Quotation No.: Q24-35340		Chemtest Sample ID.:	1908819	1908820	1908821	1908822	1908823
Order No.: S3240		Client Sample Ref.:	TSP20	TSP21	TSP22	TSP23	TSP24
		Client Sample ID.:	TSP20	TSP21	TSP22	TSP23	TSP24
		Sample Location:	TSP20	TSP21	TSP22	TSP23	TSP24
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.70	1.80	1.90	1.85
		Date Sampled:	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024	11-Dec-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Tot Coliforms Presumptive (Subcon)		SN		cfu/g	N/A	See Attached	See Attached
TVC @ 30C (Subcon)		SN		cfu/g	N/A	See attached.	See attached.

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

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Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

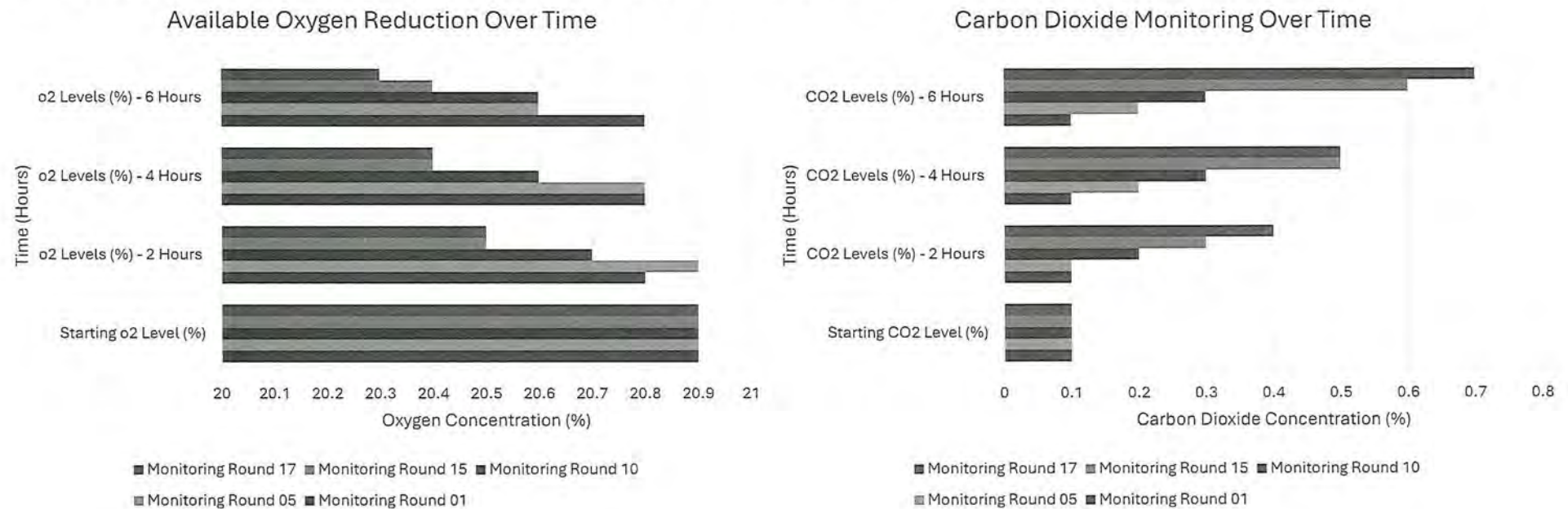
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

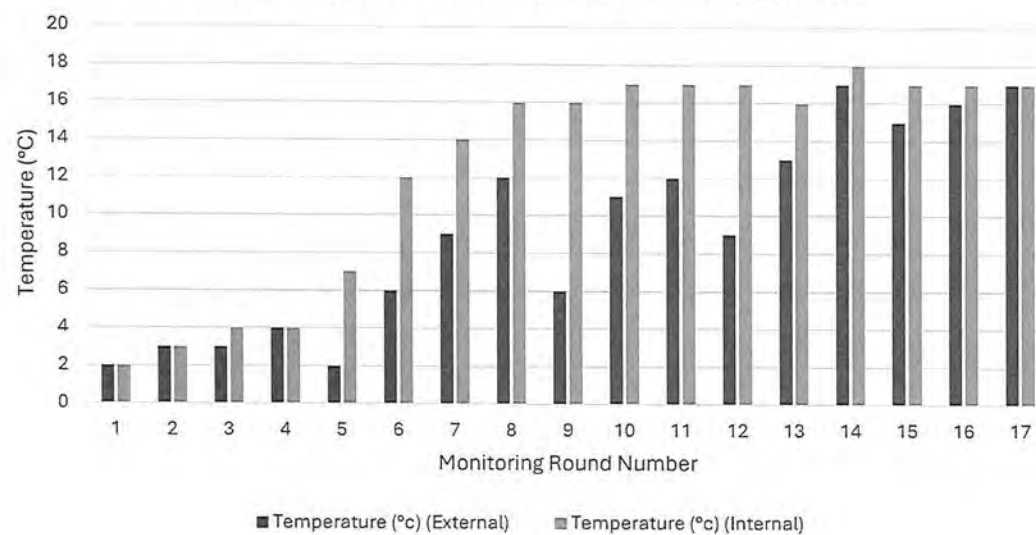
HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

TSP05 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-2.



TSP05 External vs Internal Stockpile Temperatures

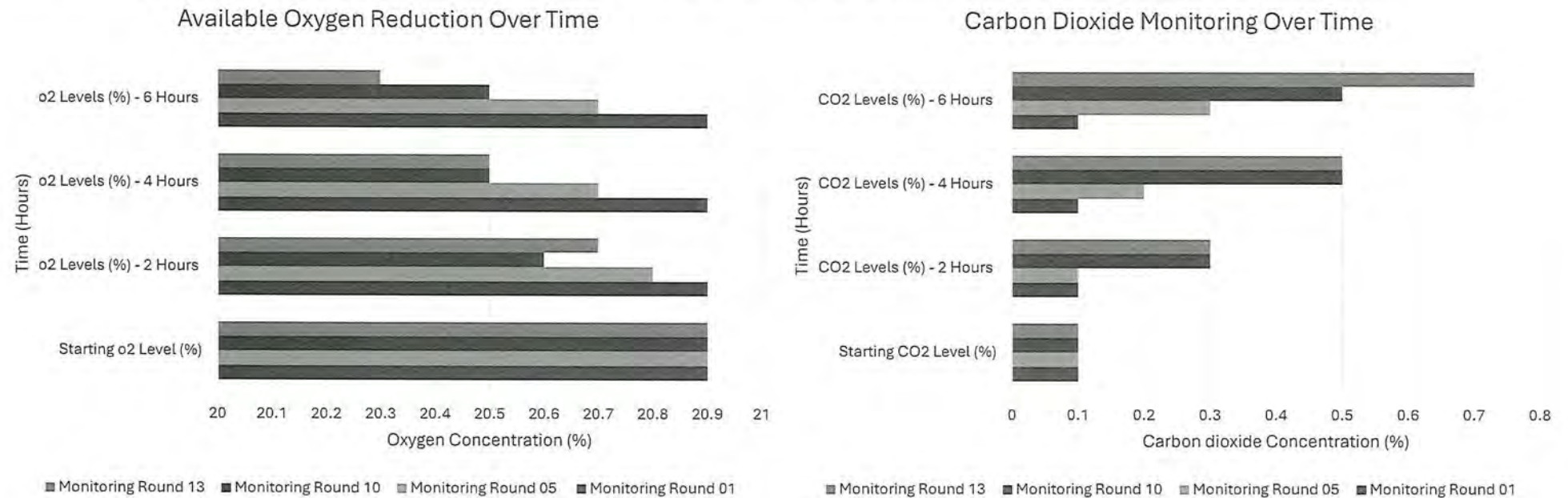


TSP05 Temperature Summary

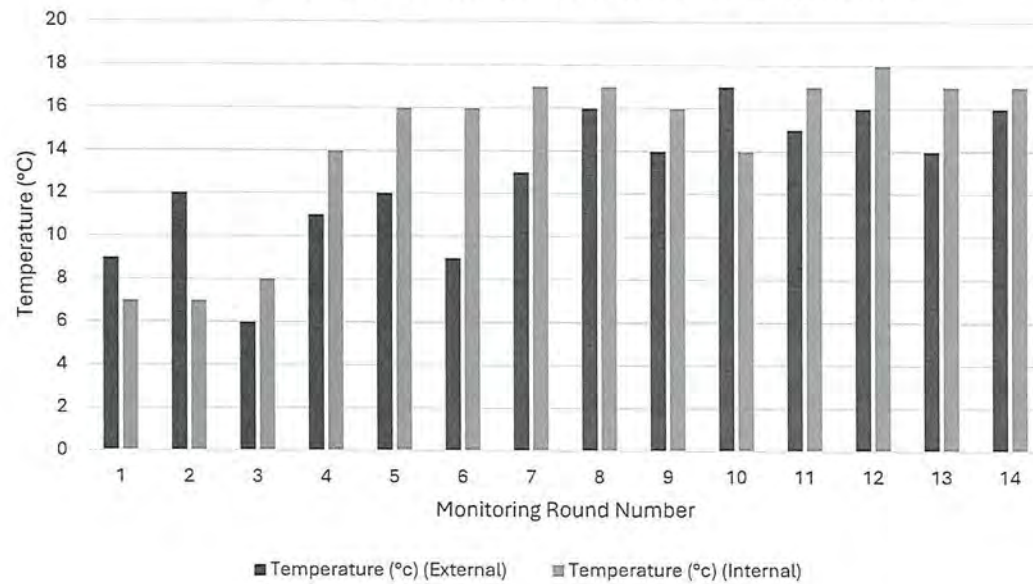
Monitoring Round No	Date	Temperature (°C) (External)	Temperature (°C) (Internal)
1	18-Dec	2	2
2	11-Jan	3	3
3	25-Jan	3	4
4	06-Feb	4	4
5	22-Feb	2	7
6	06-Mar	6	12
7	20-Mar	9	14
8	03-Apr	12	16
9	10-Apr	6	16
10	17-Apr	11	17
11	24-Apr	12	17
12	01-May	9	17
13	08-May	13	16
14	17-Jun	17	18
15	09-Jul	15	17
16	17-Jul	16	17
17	23-Jul	17	17

TSP06

TSP06 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-3.



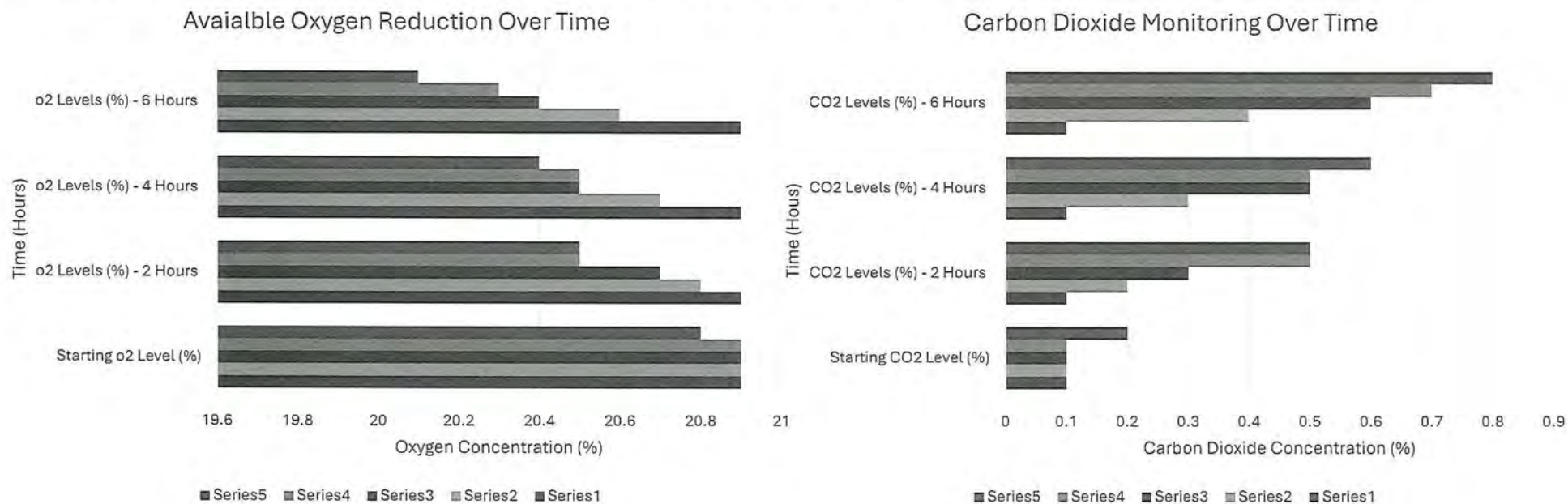
TSP06 External vs Internal Stockpile Temperatures



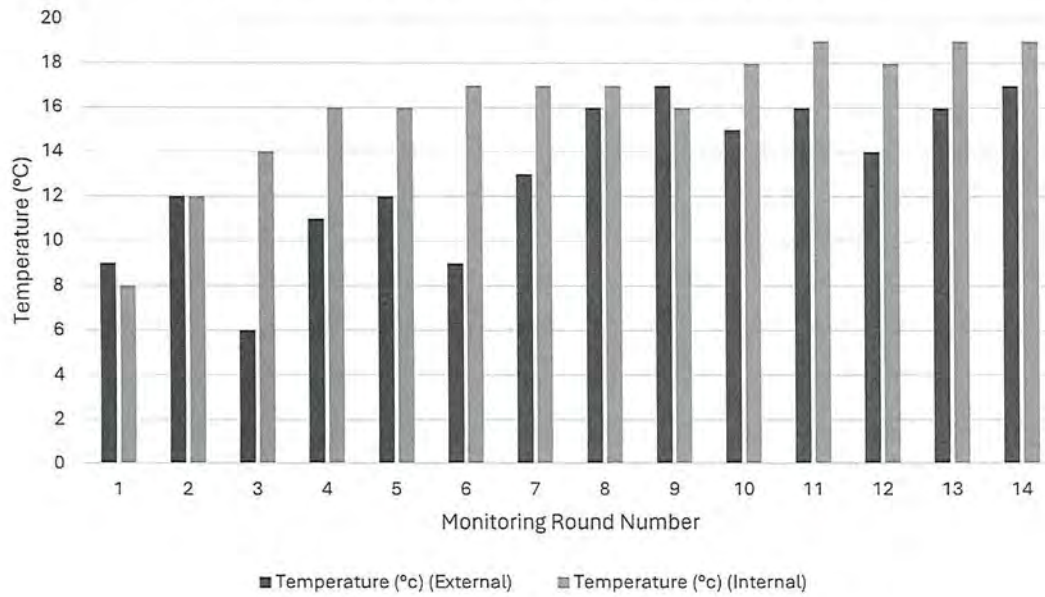
TSP06 Temperature Summary

Monitoring Round No	Date	Temperature (°c) (External)	Temperature (°c) (Internal)
1	21-Mar	9	7
2	03-Apr	12	7
3	10-Apr	6	8
4	17-Apr	11	14
5	24-Apr	12	16
6	01-May	9	16
7	08-May	13	17
8	15-May	16	17
9	22-May	14	16
10	17-Jun	17	14
11	25-Jun	15	17
12	02-Jul	16	18
13	10-Jul	14	17
14	16-Jul	16	17

TSP08 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-4.



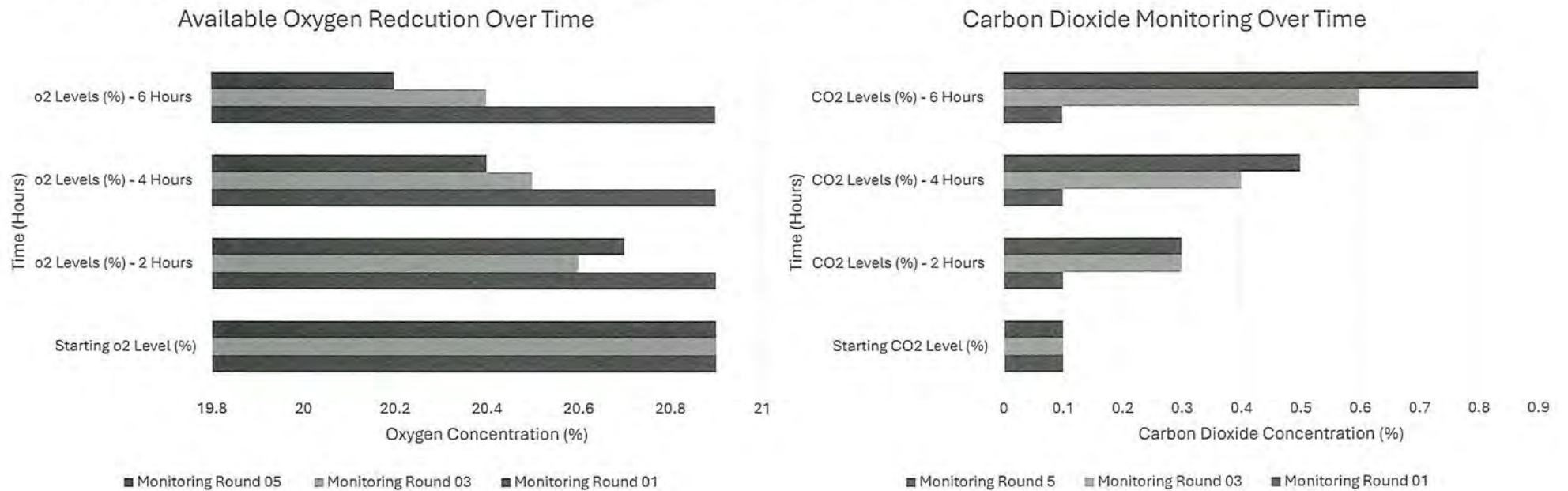
TSP08 External vs Internal Stockpile Temperatures



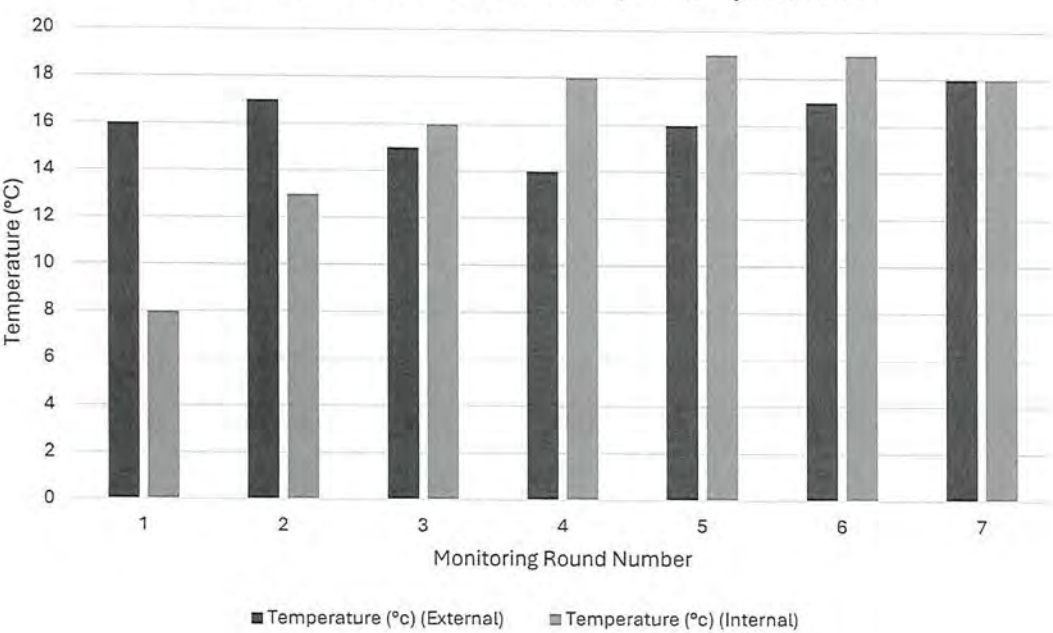
TSP08 Temperature Summary

Monitoring Round No	Date turned	Temperature (°c) (External)	Temperature (°c) (Internal)
1	21-Mar	9	8
2	03-Apr	12	12
3	10-Apr	6	14
4	17-Apr	11	16
5	24-Apr	12	16
6	01-May	9	17
7	08-May	13	17
8	15-May	16	17
9	22-May	17	16
10	17-Jun	15	18
11	25-Jun	16	19
12	09-Jul	14	18
13	17-Jul	16	19
14	30-Jul	17	19

TSP10 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-5.

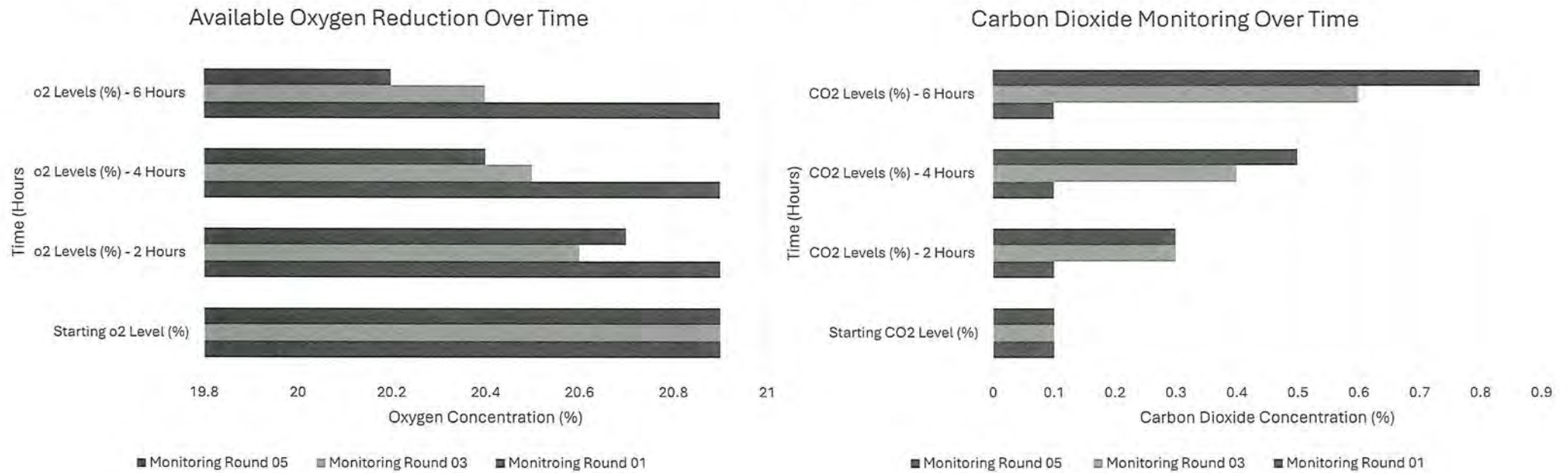


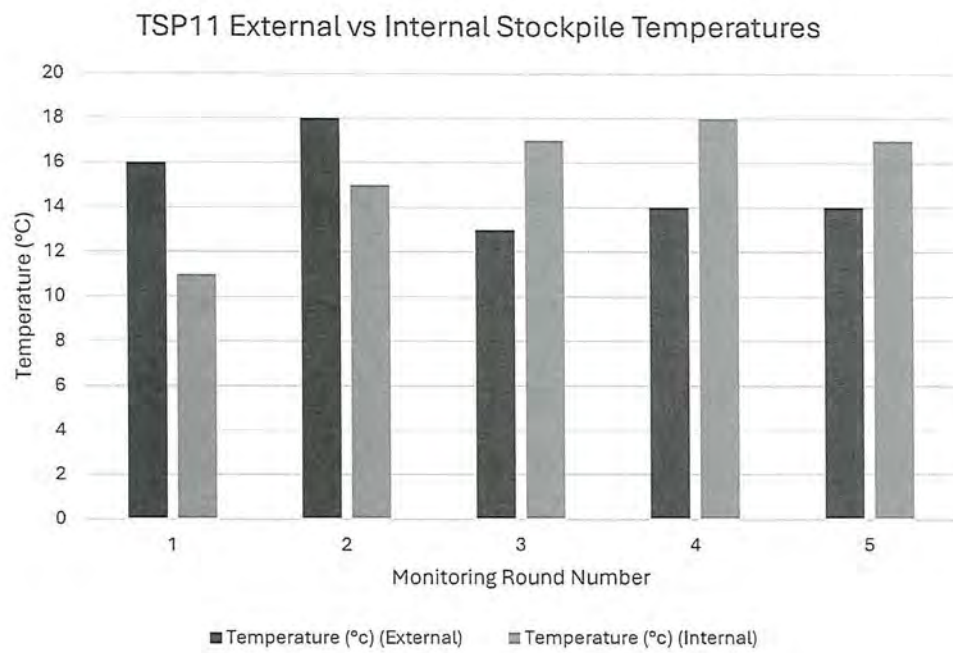
TSP10 External vs Internal Stockpile Temperatures



TSP10 Temperature Summary			
Monitoring Round No	Date turned	Temperature (°c) (External)	Temperature (°c) (Internal)
1	15-May	16	8
2	22-May	17	13
3	18-Jun	15	16
4	09-Jul	14	18
5	17-Jul	16	19
6	30-Jul	17	19
7	13-Aug	18	18

TSP11 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-6.





		TSP11 Temperature Summary	
Monitoring Round No	Date	Temperature (°c) (External)	Temperature (°c) (Internal)
1	12-Jun	16	11
2	18-Jun	18	15
3	25-Jun	13	17
4	02-Jul	14	18
5	09-Jul	14	17

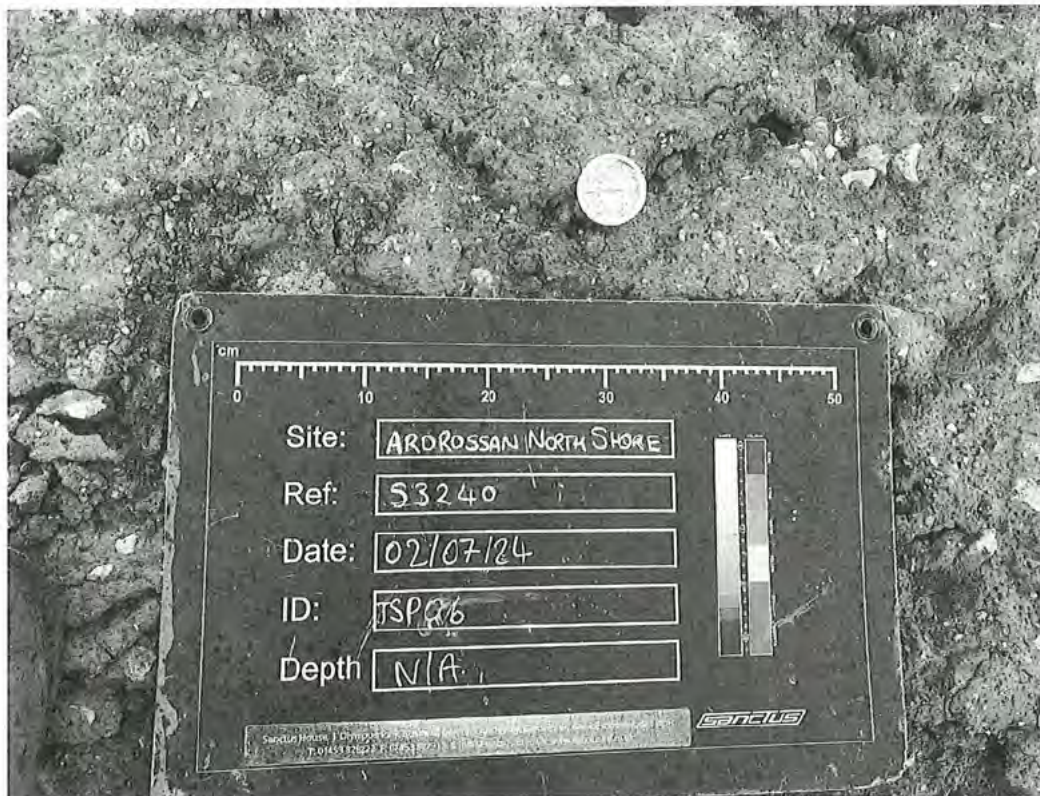


Plate No.: 1

Title: Example internal temperature monitoring with biotreated stockpiles.



Plate No.: 2

Title.: Example turning and Aeration of Biotreated stockpiles.

Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore



Plate No.: 3

Title.: Example turning and Aeration of Biotreated stockpiles.



Plate No.: 4

Title.: Available Oxygen and Carbon Dioxide Monitoring of biotreated soils.

Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore



Plate No.: 3

Title.: Example internal temperature monitoring with biotreated stockpiles.

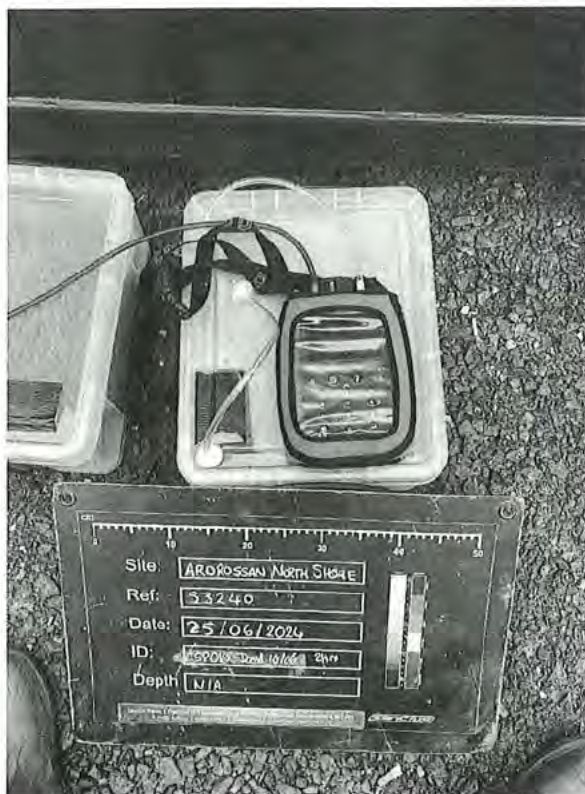


Plate No.: 4

Title.: Available Oxygen and Carbon Dioxide Monitoring of biotreated soils.

Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore

Appendix L [REDACTED] WML Surrender and notification of material suitability.

From:
To:
Cc:



Subject: Ardrossan North Shore - Bioremediated Soils
Date: 02 May 2025 10:24:09
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Good morning [REDACTED] and Team,

The TSP25 monitoring has confirm that the materials now pass the Sanctus remedial criteria and as such all materials have now been successfully treated, per the scope of works.

Please take this email as confirmation that the stockpiles TSP14A-25 are now available for handover, and management under NACs control.

The Phase 04 verification report is to be issued later today to [REDACTED] (NAC) and [REDACTED] (SEPA).

Kind Regards,



New Sig logo2.png



New Sig Banner.png



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From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: S3240 - Waste Management Operations
Date: 02 May 2025 10:26:14
Attachments: [image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)
[image012.png](#)
[image013.png](#)
[image014.png](#)

[REDACTED]

Following the below email,

I am emailing to confirm the completion of all onsite treatment at the [REDACTED] site,
Ardrossan North Shore, under SEPA issued license WML/L/5005884.

All waste returns have been previously submitted by Sanctus in relation to the works
undertaken.

In total, 32,023m³ have been successfully treated by [REDACTED]

On this basis please take this as surrender of the license Ref WML/L/5005884 relating to
these treatment works.

Kind Regards,

[REDACTED]

New Sig logo2.png



New Sig Banner.png



[REDACTED]

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From: [REDACTED]

Sent: 05 December 2024 15:34

To: [REDACTED]

Cc: [REDACTED]

Subject: S3240 - Waste Management Operations

Good afternoon [REDACTED]

We are starting to compile the report for the verification of the Waste treatment operation at Ardrossan North Shore, under License WML/L/55005884.

We will demonstrate the effectiveness of the bioremediation and that the treatment has been completed with materials reaching the Stated remedial criteria.

Could you confirm if there is anything you require included within the report as under the license and Site-Specific Working Plan there are no specific items stated.

The verification report produced will be produced under our regulatory responsibility to demonstrate all remedial objectives have been achieved and to discharge the relevant planning condition.

[REDACTED] will also complete the waste return to SEPA.

I look forward to hearing from you in due course.

Kind Regards,

[REDACTED]



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