



Final Report

Report No.: 25-08705-1
Initial Date of Issue: 21-Mar-2025

Re-Issue Details:

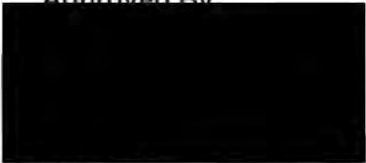
Client
Client Address:

Contact(s):



Project	S3240 North Shore, Ardrossan		
Quotation No.:	Q25-37100	Date Received:	13-Mar-2025
Order No.:	S3240	Date Instructed:	13-Mar-2025
No. of Samples:	5		
Turnaround (Wkdays):	5	Results Due:	19-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 North Shore, Ardrossan

Client: Sanctus Limited		Chemtest Job No.:					25-08705	25-08705	25-08705	25-08705	25-08705
Quotation No.: Q25-37100		Chemtest Sample ID.:					1946715	1946716	1946717	1946718	1946719
Order No.: S3240		Client Sample Ref.:					TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:					TSP23-01G	TSP23-02G	TSP23-03G	TSP23-04G	TSP23-05G
		Sample Location:					TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.0	0.0	0.0	0.0	0.0
		Bottom Depth (m):					1.70	1.70	1.75	1.65	1.60
		Date Sampled:					11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	11	11	11	11	11	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones and Roots	
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	
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	2.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	30	36	36	45	59	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	120	94	140	120	
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	39	37	41	42	43	
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	180	190	170	230	230	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	190	170	230	230	
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	8.5	6.1	7.9	10	11	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	61	65	67	72	96	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	110	120	110	140	140	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	32	68	39	94	75	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	180	190	180	220	250	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	210	260	220	320	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
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	360	380	350	450	470	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	400	450	390	550	550	
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 North Shore, Ardrossan

Client: Sanctus Limited		Chemtest Job No.:	25-08705	25-08705	25-08705	25-08705	25-08705
Quotation No.: Q25-37100		Chemtest Sample ID.:	1946715	1946716	1946717	1946718	1946719
Order No.: S3240		Client Sample Ref.:	TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:	TSP23-01G	TSP23-02G	TSP23-03G	TSP23-04G	TSP23-05G
		Sample Location:	TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.0	0.0	0.0	0.0	0.0
		Bottom Depth (m):	1.70	1.70	1.75	1.65	1.60
		Date Sampled:	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025	11-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.21	0.29
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	0.24	0.31
Anthracene		M	2800	mg/kg	0.10	0.13	0.14
Fluoranthene		M	2800	mg/kg	0.10	0.63	0.77
Pyrene		M	2800	mg/kg	0.10	0.62	0.73
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.32	0.38
Chrysene		M	2800	mg/kg	0.10	0.39	0.43
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.64	0.76
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24	0.27
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.59	0.65
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.53	0.51
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	0.50	0.59
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.0	5.8

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_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 012 – TSP22**Stockpile ID**

Stockpile ID: TSP22

Material Volume:

667 m³

Validation Samples Included per Round

7 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 7 of 9)	Sample Date: 12/02/2025	Report Number & Date: 25-05316 – 26/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 8 of 9)	Sample Date: 19/02/2025	Report Number & Date: 25-06190 10/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 9 of 9)	Sample Date: 06/03/2025	Report Number & Date: 25-08214 17/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05316

Report Date: 26/02/2025

Sample ID (Sample Names): TSP22-01D → TSP22-07D Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 584 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 2

Report Number: 25-06190

Report Date: 10/03/2025

Sample ID (Sample Names): TSP22-01E → TSP22-07E Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 269mg/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.

Passing Round 3

Report Number: 25-08214

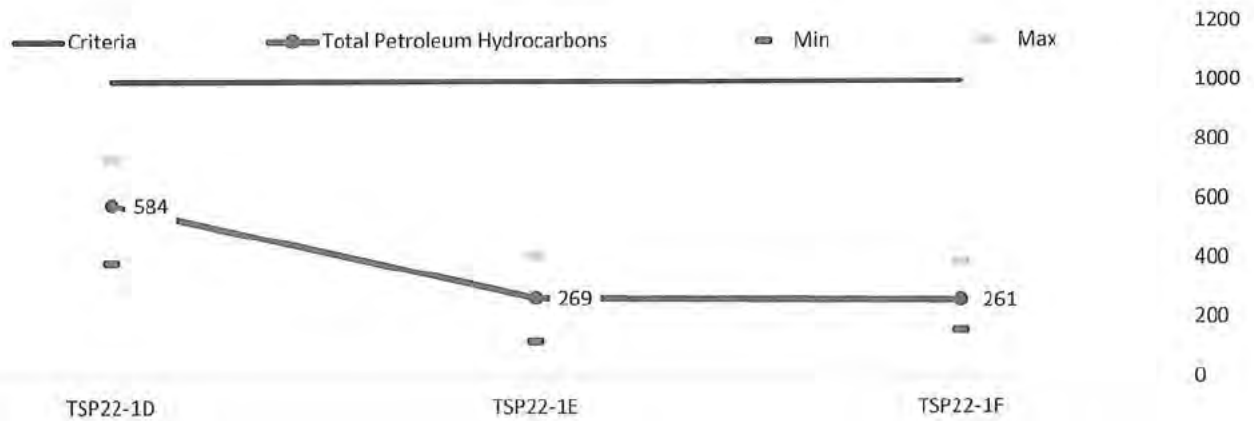
Report Date: 17/03/2025

Sample ID (Sample Names): TSP22-01F → TSP22-07F Report ID (Lab): Eurofins

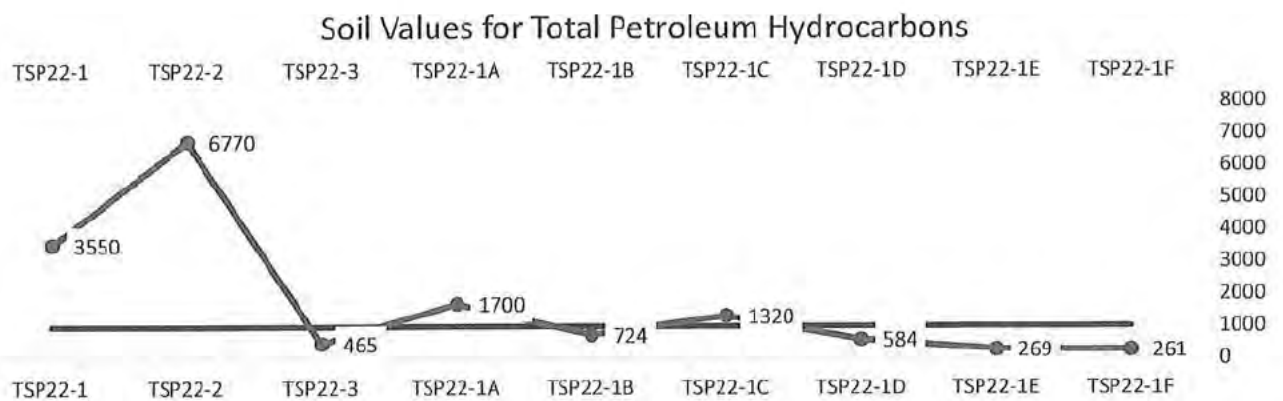
Comments:

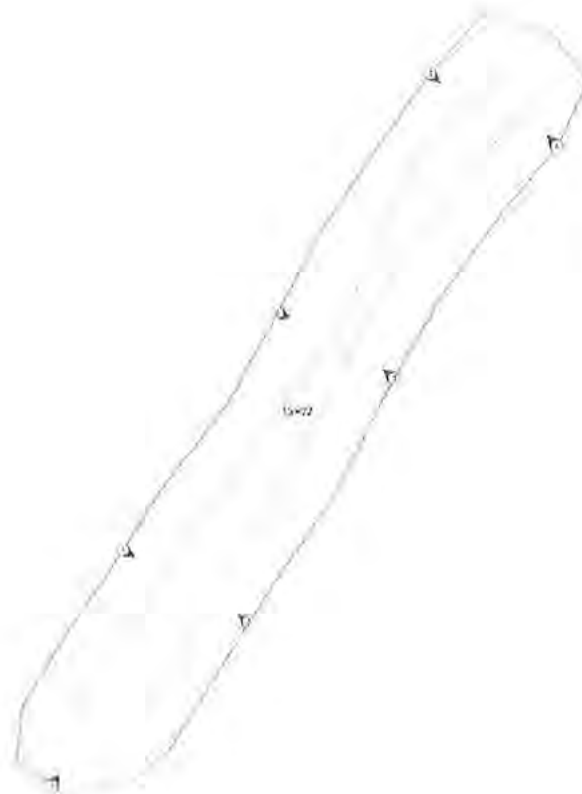
Test Results: PASS / FAIL

Average total TPH = 261 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.

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 92.6% when compared to the material's initial total TPH level (3,550 mg/kg (16th October 2024), compared to 261 mg/kg (6th March 2025)):



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 required Total TPH criteria (1,000mg/kg) - the accepted reuse criteria. No exceedances 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: 26/03/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

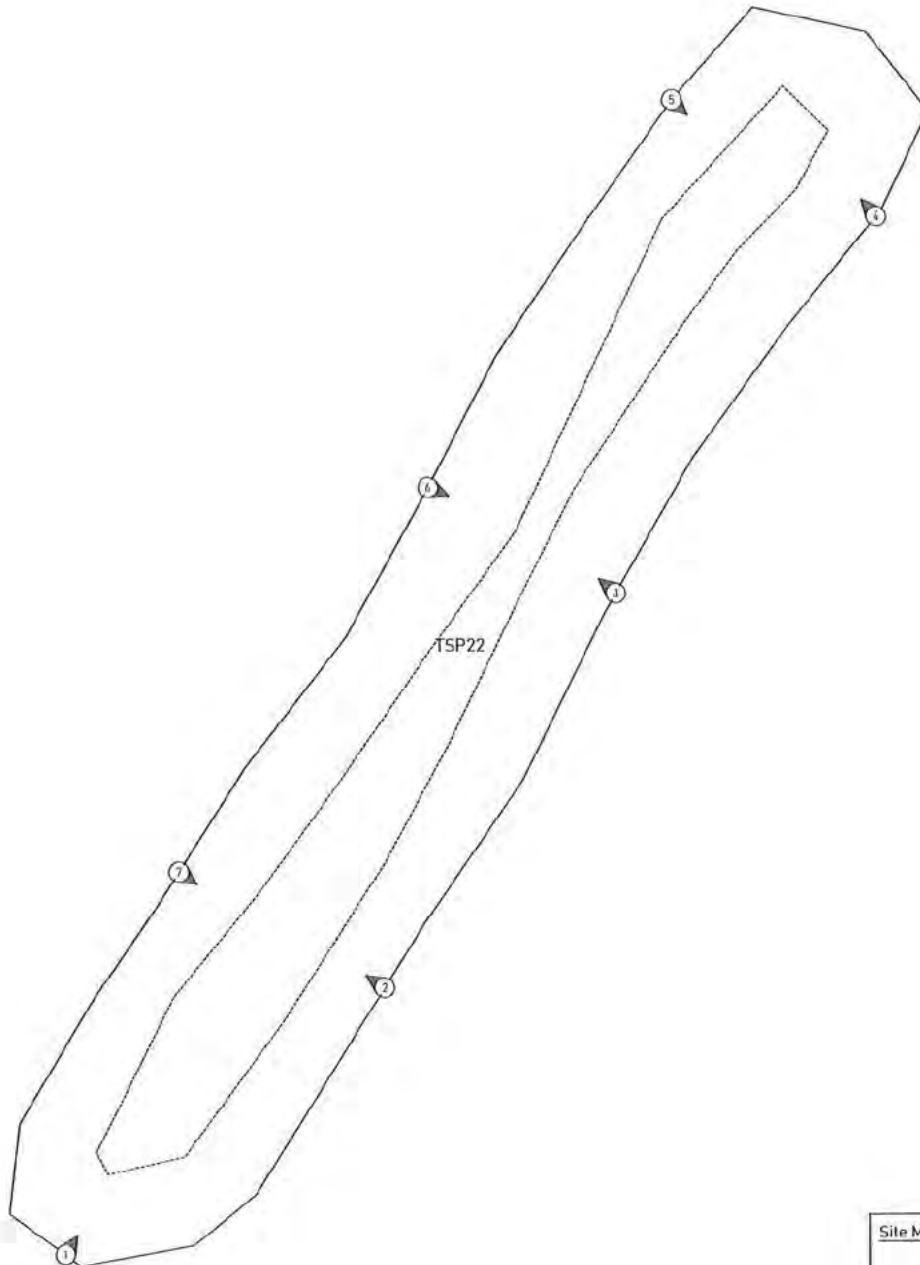
Approved for reuse:

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.
23/03/2020. 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 22 Sample Location Plan

Contract No:
S3240

Drawn By:
JH

Drawing No:
D3240/118

QC Check By:
ARW

Scale @ A3:
1:200 / See Inset

Approved By:
ARW

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C8	Aliphatic TPH >C6-C8	Aliphatic TPH >C6-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C16	Aliphatic TPH >C16-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C5-C35	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 >C5-C35
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	540	1000	
TSP22-01D	12/02/2025	740	< 0.05	< 0.10	< 0.05	7	71	240	230	550	< 0.05	< 0.05	< 0.05	< 1.0	6	27	73	110
TSP22-02D	12/02/2025	580	< 0.05	< 0.10	< 0.05	< 2.0	70	170	130	380	< 0.05	< 0.05	< 0.05	< 1.0	4	19	84	110
TSP22-03D	12/02/2025	390	< 0.05	< 0.10	< 0.05	2	45	120	87	250	< 0.05	< 0.05	< 0.05	< 1.0	3	18	60	81
TSP22-04D	12/02/2025	610	< 0.05	< 0.10	< 0.05	5	79	190	140	420	< 0.05	< 0.05	< 0.05	< 1.0	8	23	82	110
TSP22-05D	12/02/2025	620	< 0.05	< 0.10	< 0.05	12	67	210	140	430	< 0.05	< 0.05	< 0.05	< 1.0	8	21	86	120
TSP22-06D	12/02/2025	470	< 0.05	< 0.10	< 0.05	< 2.0	57	150	110	320	< 0.05	< 0.05	< 0.05	< 1.0	5	15	70	90
TSP22-07D	12/02/2025	680	< 0.05	< 0.10	< 0.05	< 2.0	80	200	160	450	< 0.05	< 0.05	< 0.05	< 1.0	5	23	96	120
TSP22-01E	19/02/2025	410	< 0.05	< 0.10	< 0.05	4	20	42	24	69	< 0.05	< 0.05	< 0.05	< 1.0	9	92	170	270
TSP22-02E	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	11	32	19	64	< 0.05	< 0.05	< 0.05	< 1.0	8	47	57	110
TSP22-03E	19/02/2025	240	< 0.05	< 0.10	< 0.05	4	19	37	20	80	< 0.05	< 0.05	< 0.05	< 1.0	9	47	54	110
TSP22-04E	19/02/2025	310	< 0.05	< 0.10	< 0.05	4	17	46	34	100	< 0.05	< 0.05	< 0.05	< 1.0	9	62	73	140
TSP22-05E	19/02/2025	310	< 0.05	< 0.10	< 0.05	5	27	61	35	130	< 0.05	< 0.05	< 0.05	< 1.0	12	49	67	130
TSP22-06E	19/02/2025	280	< 0.05	< 0.10	< 0.05	3	13	28	18	62	< 0.05	< 0.05	< 0.05	< 1.0	6	49	82	140
TSP22-07E	19/02/2025	120	< 0.05	< 0.10	< 0.05	3	8	31	26	69	< 0.05	< 0.05	< 0.05	< 1.0	13	30	30	44
TSP22-01F	06/03/2025	160	< 0.05	< 0.10	< 0.05	< 2.0	3	25	35	64	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	24	36	61
TSP22-02F	06/03/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	25	56	33	110	< 0.05	< 0.05	< 0.05	< 1.0	14	70	120	200
TSP22-03F	06/03/2025	200	< 0.05	< 0.10	< 0.05	< 2.0	8	26	31	68	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	41	55	97
TSP22-04F	06/03/2025	200	< 0.05	< 0.10	< 0.05	< 2.0	4	35	28	88	< 0.05	< 0.05	< 0.05	< 1.0	2	39	57	98
TSP22-05F	06/03/2025	330	< 0.05	< 0.10	< 0.05	< 2.0	28	75	55	160	< 0.05	< 0.05	< 0.05	< 1.0	15	85	47	150
TSP22-06F	06/03/2025	290	< 0.05	< 0.10	< 0.05	< 2.0	10	42	38	90	< 0.05	< 0.05	< 0.05	< 1.0	5	94	59	160
TSP22-07F	06/03/2025	290	< 0.05	< 0.10	< 0.05	< 2.0	21	40	41	100	< 0.05	< 0.05	< 0.05	< 1.0	8	96	62	170



Final Report

Report No.: 25-05316-1
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:

7

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.:	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932956	1932957	1932958	1932959	1932960	1932961	1932962		
Order No.: S3240		Client Sample Ref.:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		Client Sample ID.:	TSP22-01D	TSP22-02D	TSP22-03D	TSP22-04D	TSP22-05D	TSP22-06D	TSP22-07D		
		Sample Location:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		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):	1.70	1.65	1.75	1.70	1.75	1.70	1.70	1.70	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	12-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	Stones	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	7.2	< 2.0	2.3	5.1	12	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	71	70	45	79	67	57
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	240	170	120	190	210	150
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	230	130	87	140	140	110
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	550	380	250	420	430	320
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	570	380	250	420	430	320
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	6.0	4.4	2.9	8.0	7.9	5.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	19	18	23	21	15
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	73	84	60	82	86	70
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	64	89	52	73	74	58
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	110	110	81	110	120	90
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	170	200	130	190	190	150
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	660	490	330	530	540	410
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	740	580	390	610	620	470
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	0.26	0.12	0.22	0.23	0.12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316	25-05316
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932956	1932957	1932958	1932959	1932960	1932961	1932962		
Order No.: S3240		Client Sample Ref.:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22		
		Client Sample ID.:	TSP22-01D	TSP22-02D	TSP22-03D	TSP22-04D	TSP22-05D	TSP22-06D	TSP22-07D		
		Sample Location:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22		
		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	1.75	1.70	1.75	1.70	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		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.67	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.34	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.36	0.62	0.38	0.89	7.0	0.34
Anthracene		M	2800	mg/kg	0.10	0.17	0.29	0.22	0.37	2.3	0.16
Fluoranthene		M	2800	mg/kg	0.10	0.88	1.8	1.1	2.1	9.9	1.1
Pyrene		M	2800	mg/kg	0.10	0.78	2.0	1.0	2.0	7.4	0.96
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.42	1.3	0.62	1.3	4.6	0.47
Chrysene		M	2800	mg/kg	0.10	0.46	1.6	0.67	1.3	4.1	0.53
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.77	4.4	1.1	2.3	5.7	0.94
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.23	1.3	0.36	0.91	2.2	0.27
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.65	4.0	1.0	1.9	5.2	0.72
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.48	3.0	0.78	1.2	3.2	0.53
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.55	< 0.10	0.29	0.62	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.50	3.0	0.78	1.2	2.7	0.58
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.7	24	8.1	16	56	6.7

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*; 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



Final Report

Report No.: 25-06190-1
Initial Date of Issue: 10-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: 7

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 10-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.:	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936974	1936975	1936976	1936977	1936978	1936979	1936980		
Order No.: S3240		Client Sample Ref.:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22		
		Client Sample ID.:	TSP22-01E	TSP22-02E	TSP22-03E	TSP22-04E	TSP22-05E	TSP22-06E	TSP22-07E		
		Sample Location:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Bottom Depth (m):	1.70	1.65	1.75	1.70	1.75	1.70	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						
Moisture		N	2030	%	0.020	14	12	16	13	14	17
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	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	3.7	< 2.0	3.7	4.1	5.0	2.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	11	19	17	27	13
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	42	32	37	46	61	28
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	24	19	20	34	35	18
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	89	64	80	100	130	62
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	89	64	80	100	130	62
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	8.9	6.3	8.6	9.0	12	6.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	92	47	47	62	49	49
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	170	57	54	73	67	82
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	45	41	55	64	52	80
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	270	110	110	140	130	140
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	320	150	170	210	180	220
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	360	170	190	240	250	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	410	210	240	310	310	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
Naphthalene		M	2800	mg/kg	0.10	0.16	0.18	0.14	0.19	0.20	0.14
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	0.15	< 0.10	0.13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190	25-06190
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936974	1936975	1936976	1936977	1936978	1936979	1936980
Order No.: S3240		Client Sample Ref.:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		Client Sample ID.:	TSP22-01E	TSP22-02E	TSP22-03E	TSP22-04E	TSP22-05E	TSP22-06E	TSP22-07E
		Sample Location:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.70	1.65	1.75	1.70	1.75	1.70	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				
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	0.17
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.13
Phenanthrene		M	2800	mg/kg	0.10	0.92	0.53	0.58	1.3
Anthracene		M	2800	mg/kg	0.10	0.30	0.24	0.22	0.46
Fluoranthene		M	2800	mg/kg	0.10	2.3	1.6	1.9	3.3
Pyrene		M	2800	mg/kg	0.10	2.0	1.5	1.8	2.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.90	0.93	1.4
Chrysene		M	2800	mg/kg	0.10	0.89	0.73	0.79	1.5
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.6	1.7	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.63	0.63	0.58	0.73
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	1.3	1.4	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	1.2	1.1	1.6
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.19	0.32	0.19	0.23
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2	1.2	1.1	1.6
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	12	12	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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
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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.: 25-08214-1
Initial Date of Issue: 17-Mar-2025

Re-Issue Details:

Client
Client Address:



Contact(s):	Labs		
Project	S3240 Androssan North Shore		
Quotation No.:	Q25-37100	Date Received:	11-Mar-2025
Order No.:	S3240	Date Instructed:	11-Mar-2025
No. of Samples:	7		
Turnaround (Wkdays):	5	Results Due:	17-Mar-2025
Date Approved:	17-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 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.: 25-08214										
Quotation No.: Q25-37100		Chemtest Sample ID.: 1944856										
Order No.: S3240		Client Sample Ref.: TSP22										
		Client Sample ID.: TSP22-01F										
		Sample Location: TSP22										
		Sample Type: SOIL										
		Top Depth (m): 0.00										
		Bottom Depth (m): 1.70										
		Date Sampled: 06-Mar-2025										
Determinand	HWOL Code	Accred.	SOP	Units	LOD	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025	06-Mar-2025
Moisture		N	2030	%	0.020	15	16	15	15	15	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	3.1	25	9.3	4.2	28	9.7	21
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25	56	26	35	75	42	40
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	35	33	31	28	55	38	41
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	20	27	14	16	13	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	64	110	68	68	160	90	100
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	84	140	81	83	170	90	100
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	< 1.0	14	< 1.0	2.1	15	5.4	8.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	70	41	39	85	94	96
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	36	120	55	57	47	59	62
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	47	22	21	17	16	26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	61	200	97	98	150	160	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	75	250	120	120	160	170	190
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	120	320	160	170	300	250	270
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160	390	200	200	330	260	290
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	0.25	0.23	0.35	0.26	0.36	0.20	0.24

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08214	25-08214	25-08214	25-08214	25-08214	25-08214	25-08214
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944856	1944857	1944858	1944859	1944860	1944861	1944862
Order No.: S3240		Client Sample Ref.:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		Client Sample ID.:	TSP22-01F	TSP22-02F	TSP22-03F	TSP22-04F	TSP22-05F	TSP22-06F	TSP22-07F
		Sample Location:	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22	TSP22
		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	1.75	1.70	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
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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	0.46	0.39	0.47	0.77
Anthracene		M	2800	mg/kg	0.10	0.22	0.14	0.15	0.29
Fluoranthene		M	2800	mg/kg	0.10	1.8	0.97	1.3	3.0
Pyrene		M	2800	mg/kg	0.10	1.5	0.92	1.2	2.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.98	0.49	0.64	1.3
Chrysene		M	2800	mg/kg	0.10	0.80	0.35	0.52	1.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	0.74	1.2	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.51	0.21	0.33	0.65
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	0.62	0.99	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.95	0.41	0.77	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.18
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.92	0.52	0.86	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	6.0	8.8	16

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

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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_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
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PL - Prepared Leachate
PW - Processed Water
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Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
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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 013 – TSP14A**Stockpile ID**

Stockpile ID: TSP14A

Material Volume:

1,517 m³

Validation Samples Included per Round

16 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 13/08/2024

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: 25-05217 – 25/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06179 10/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08197 – 17/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05217

Report Date: 25/02/2025

Sample ID (Sample Names): TSP14A-01E → TSP14A-16E Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 473 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 Number: 25-06179

Report Date: 10/03/2025

Sample ID (Sample Names): TSP14A-01F → TSP14A-16F Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 415 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: 25-08197

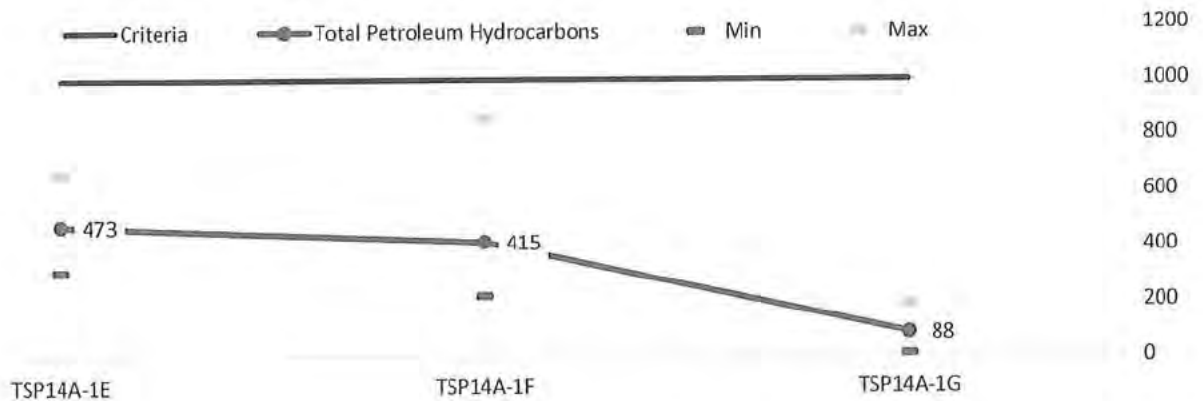
Report Date: 17/03/2025

Sample ID (Sample Names): TSP14A-01G → TSP14A-16G Report ID (Lab): Eurofins

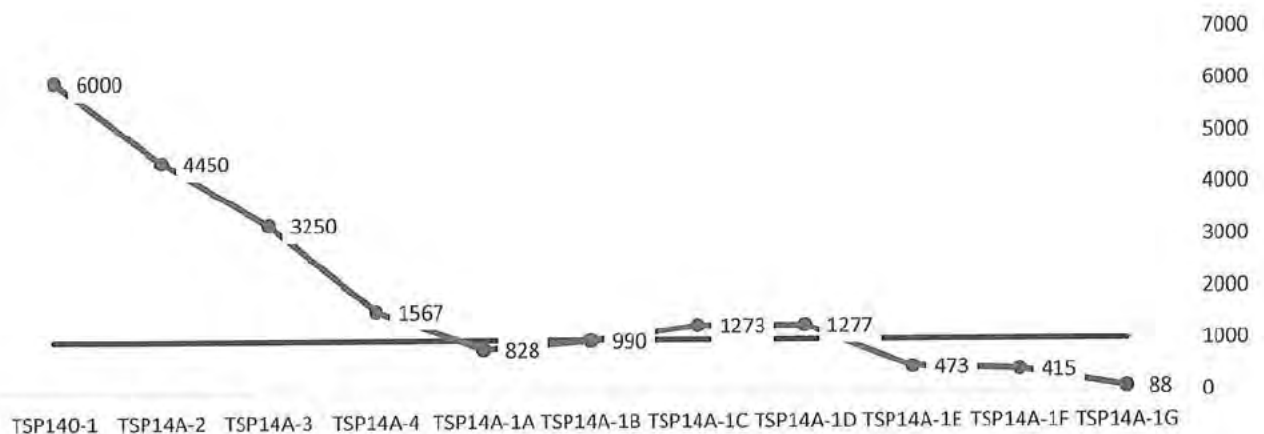
Comments:

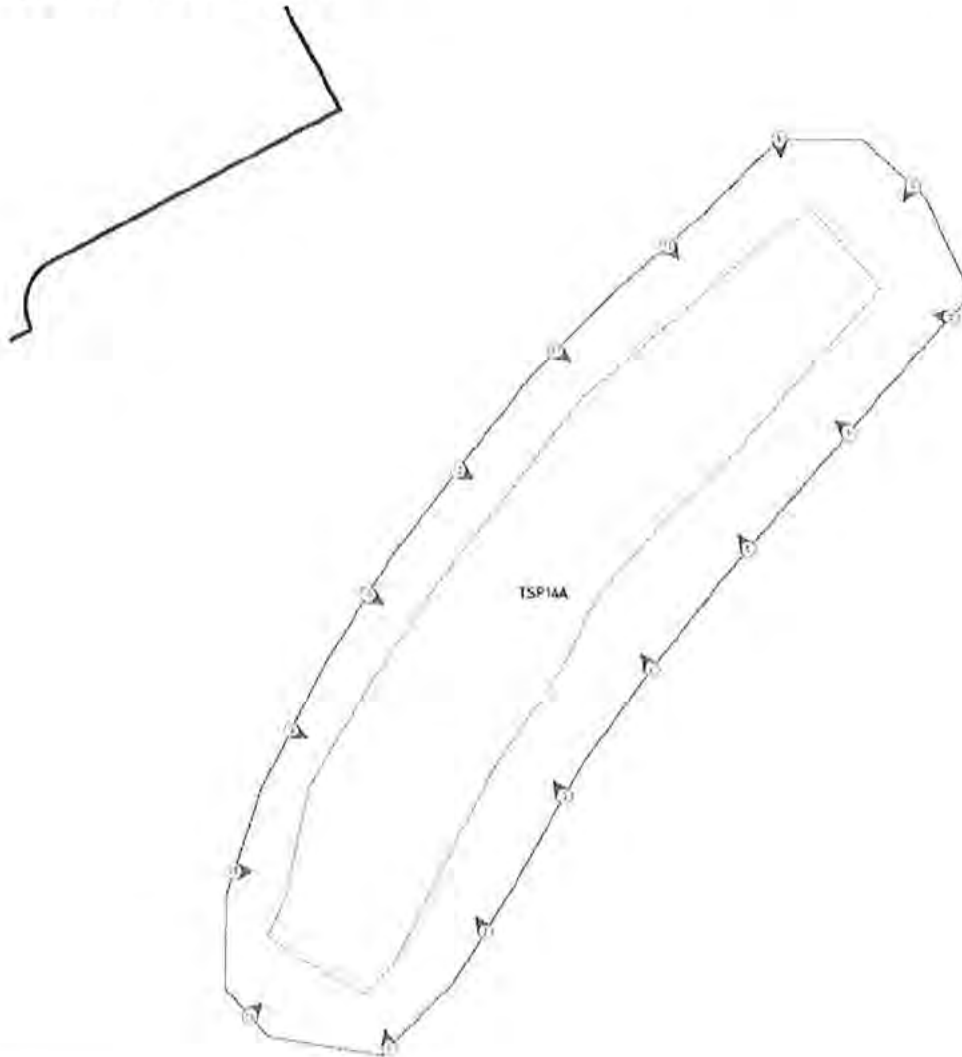
Test Results: PASS / FAIL

Average total TPH = 88 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:****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 98.53% when compared to the material's initial total TPH level (6,000 mg/kg (13th August 2024), compared to the final round's average of 88 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

Ardrossan Site Code: S3240

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.

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 required Total TPH criteria (1,000mg/kg) - the accepted reuse criteria. No exceedances 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: 26/03/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

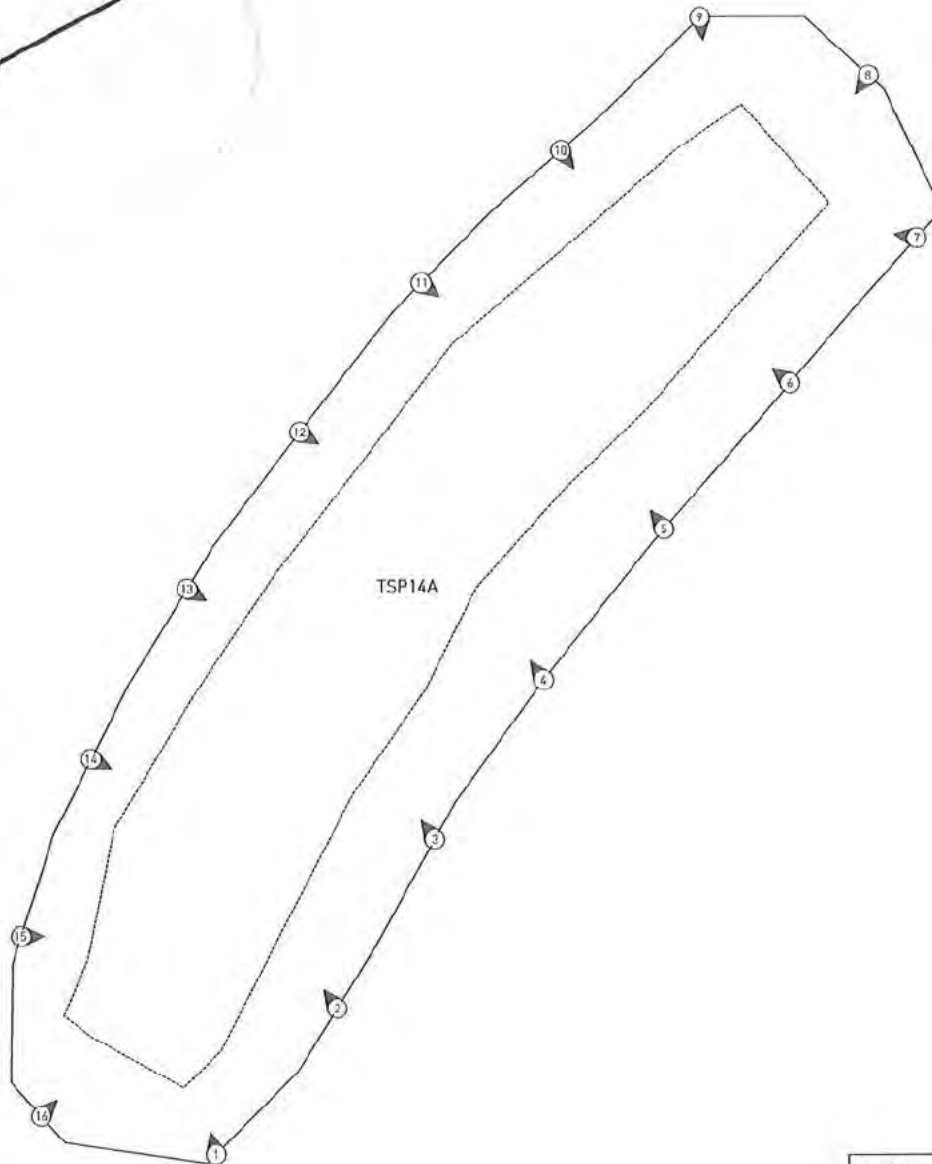
Approved for reuse:

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.
23/03/2020. 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 14A Sample Location Plan

Contract No:
S3240

Drawing No:
D3240/109

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-C39	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-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
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	734	483	17347	540	1000	
TSP14A-01E	12/02/2025	440	< 0.05	< 0.10	< 0.05	8	52	120	86	260	< 0.05	< 0.05	< 0.05	< 1.0	15	50	85	130
TSP14A-02E	12/02/2025	570	< 0.05	< 0.10	< 0.05	4	63	120	84	270	< 0.05	< 0.05	< 0.05	1	19	84	120	230
TSP14A-03E	12/02/2025	530	< 0.05	< 0.10	< 0.05	8	50	130	100	280	< 0.05	< 0.05	< 0.05	1	21	58	97	180
TSP14A-04E	12/02/2025	440	< 0.05	< 0.10	< 0.05	7	48	110	76	240	< 0.05	< 0.05	< 0.05	1	18	57	80	160
TSP14A-05E	12/02/2025	560	< 0.05	< 0.10	< 0.05	< 2.0	55	130	130	320	< 0.05	< 0.05	< 0.05	< 1.0	13	89	74	180
TSP14A-06E	12/02/2025	380	< 0.05	< 0.10	< 0.05	< 2.0	31	79	85	200	< 0.05	< 0.05	< 0.05	< 1.0	12	56	66	130
TSP14A-07E	12/02/2025	360	< 0.05	< 0.10	< 0.05	< 2.0	31	79	82	190	< 0.05	< 0.05	< 0.05	< 1.0	12	45	52	110
TSP14A-08E	12/02/2025	570	< 0.05	< 0.10	< 0.05	< 2.0	54	150	140	350	< 0.05	< 0.05	< 0.05	< 1.0	18	54	82	150
TSP14A-09E	12/02/2025	860	< 0.05	< 0.10	< 0.05	< 2.0	55	170	170	400	< 0.05	< 0.05	< 0.05	< 1.0	16	58	99	170
TSP14A-10E	12/02/2025	410	< 0.05	< 0.10	< 0.05	4	31	97	100	230	< 0.05	< 0.05	< 0.05	< 1.0	13	52	52	120
TSP14A-11E	12/02/2025	310	< 0.05	< 0.10	< 0.05	< 2.0	23	56	68	150	< 0.05	< 0.05	< 0.05	< 1.0	9	47	45	100
TSP14A-12E	12/02/2025	480	< 0.05	< 0.10	< 0.05	< 2.0	73	120	110	300	< 0.05	< 0.05	< 0.05	< 1.0	15	57	48	120
TSP14A-13E	12/02/2025	380	< 0.05	< 0.10	< 0.05	3	41	79	99	220	< 0.05	< 0.05	< 0.05	< 1.0	11	46	43	100
TSP14A-14E	12/02/2025	340	< 0.05	< 0.10	< 0.05	< 2.0	28	66	77	180	< 0.05	< 0.05	< 0.05	< 1.0	13	46	50	110
TSP14A-15E	12/02/2025	480	< 0.05	< 0.10	< 0.05	< 2.0	48	110	120	270	< 0.05	< 0.05	< 0.05	< 1.0	18	57	84	140
TSP14A-18E	12/02/2025	680	< 0.05	< 0.10	< 0.05	8	74	160	120	370	< 0.05	< 0.05	< 0.05	< 1.0	23	110	100	230
TSP14A-01F	19/02/2025	430	< 0.05	< 0.10	< 0.05	4	46	110	74	230	< 0.05	< 0.05	< 0.05	< 1.0	10	46	91	150
TSP14A-02F	19/02/2025	420	< 0.05	< 0.10	< 0.05	< 2.0	43	110	71	220	< 0.05	< 0.05	< 0.05	< 1.0	16	47	94	160
TSP14A-03F	19/02/2025	340	< 0.05	< 0.10	< 0.05	3	23	73	39	140	< 0.05	< 0.05	< 0.05	< 1.0	9	33	100	140
TSP14A-04F	19/02/2025	340	< 0.05	< 0.10	< 0.05	4	37	95	68	200	< 0.05	< 0.05	< 0.05	< 1.0	11	32	72	120
TSP14A-05F	19/02/2025	260	< 0.05	< 0.10	< 0.05	5	29	57	35	120	< 0.05	< 0.05	< 0.05	< 1.0	5	38	78	120
TSP14A-06F	19/02/2025	490	< 0.05	< 0.10	< 0.05	< 2.0	47	100	82	230	< 0.05	< 0.05	< 0.05	< 1.0	14	76	120	210
TSP14A-07F	19/02/2025	270	< 0.05	< 0.10	< 0.05	4	25	69	48	150	< 0.05	< 0.05	< 0.05	< 1.0	8	35	58	100
TSP14A-08F	19/02/2025	510	< 0.05	< 0.10	< 0.05	4	43	120	87	250	< 0.05	< 0.05	< 0.05	< 1.0	11	56	110	170
TSP14A-09F	19/02/2025	220	< 0.05	< 0.10	< 0.05	< 2.0	23	55	44	120	< 0.05	< 0.05	< 0.05	< 1.0	8	34	50	92
TSP14A-10F	19/02/2025	280	< 0.05	< 0.10	< 0.05	4	23	63	43	130	< 0.05	< 0.05	< 0.05	< 1.0	5	46	80	130
TSP14A-11F	19/02/2025	670	< 0.05	< 0.10	< 0.05	17	110	160	90	380	< 0.05	< 0.05	< 0.05	2	38	60	110	210
TSP14A-12F	19/02/2025	340	< 0.05	< 0.10	< 0.05	7	41	93	74	210	< 0.05	< 0.05	< 0.05	< 1.0	13	35	60	110
TSP14A-13F	19/02/2025	350	< 0.05	< 0.10	< 0.05	7	43	95	77	220	< 0.05	< 0.05	< 0.05	< 1.0	14	38	60	110
TSP14A-14F	19/02/2025	300	< 0.05	< 0.10	< 0.05	3	22	63	54	140	< 0.05	< 0.05	< 0.05	< 1.0	6	37	74	120
TSP14A-15F	19/02/2025	860	< 0.05	< 0.10	< 0.05	18	82	240	130	470	< 0.05	< 0.05	< 0.05	3	33	80	130	250
TSP14A-16F	19/02/2025	550	< 0.05	< 0.10	< 0.05	5	41	97	36	180	< 0.05	< 0.05	< 0.05	< 1.0	14	60	150	220
TSP14A-01G	06/03/2025	94	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	13	19	34	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	25	15	40
TSP14A-02G	06/03/2025	52	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	8	8	16	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	17	2	19
TSP14A-03G	06/03/2025	14	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	10	< 2.0	10
TSP14A-04G	06/03/2025	180	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	28	36	64	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	34	43	77
TSP14A-05G	06/03/2025	88	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	17	13	28	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	23	14	37
TSP14A-06G	06/03/2025	73	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	17	13	31	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	17	9	26
TSP14A-07G	06/03/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	16	27	43	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	20	20	40
TSP14A-08G	06/03/2025	< 10	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8	< 2.0	6
TSP14A-09G	06/03/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	25	25	51	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	39	52	92
TSP14A-10G	06/03/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	7	18	24	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	41	43	84
TSP14A-11G	06/03/2025	25	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8	< 2.0	8
TSP14A-12G	06/03/2025	94	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	15	17	32	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	27	24	51
TSP14A-13G	06/03/2025	32	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	11	< 2.0	13
TSP14A-14G	06/03/2025	59	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	10	13	25	< 0.05	< 0.05	< 0.05	1	< 1.0	8	7	16
TSP14A-15G	06/03/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	3	23	27	52	< 0.05	< 0.05	< 0.05	1	< 1.0	18	21	39
TSP14A-16G	06/03/2025	130	< 0.05	< 0.10	< 0.05	< 2.0	8	26	23	58	< 0.05	< 0.05	< 0.05	1	3	19	25	48



Final Report

Report No.: 25-05217-1
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
Order No.: S3240
No. of Samples: 16
Turnaround (Wkdays): 5
Date Approved: 25-Feb-2025

Date Received: 14-Feb-2025
Date Instructed: 14-Feb-2025
Results Due: 20-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.:	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932841	1932842	1932843	1932844	1932845	1932846	1932847	1932848		
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-01E	TSP14A-02E	TSP14A-03E	TSP14A-04E	TSP14A-05E	TSP14A-06E	TSP14A-07E	TSP14A-08E		
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.60	1.75	1.70	1.60	1.65	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	17	14	13	14	14	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	7.8	4.0	6.3	7.2	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	52	63	50	48	55	31	54
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	120	130	110	130	79	150
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	86	84	100	76	130	85	82
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	25	20	25	25	37	30	32
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	260	270	290	240	320	200	190
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	290	290	320	260	350	230	230
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	1.2	1.2	1.3	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	15	19	21	18	13	12	12
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	50	84	58	57	89	56	45
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	65	120	97	80	74	66	52
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	25	50	34	24	29	25	29
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	230	180	160	180	130	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	160	280	210	180	210	160	140
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	390	500	470	400	490	330	300
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	440	570	530	440	560	380	360
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	0.28	0.12	0.18	< 0.10	0.15	< 0.10	0.17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932841	1932842	1932843	1932844	1932845	1932846	1932847	1932848
Order No.: S3240		Client Sample Ref.:				TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:				TSP14A-01E	TSP14A-02E	TSP14A-03E	TSP14A-04E	TSP14A-05E	TSP14A-06E	TSP14A-07E	TSP14A-08E
		Sample Location:				TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.60	1.75	1.70	1.60	1.65	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
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.47	< 0.10	< 0.10	0.42
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.27	< 0.10	< 0.10	0.38
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.20	< 0.10	< 0.10	0.37
Phenanthrene		M	2800	mg/kg	0.10	0.62	0.26	0.44	0.24	3.1	0.26	0.45	8.1
Anthracene		M	2800	mg/kg	0.10	0.33	0.14	0.19	0.16	1.8	0.14	0.15	4.1
Fluoranthene		M	2800	mg/kg	0.10	1.6	0.91	1.2	0.90	24	1.0	1.4	33
Pyrene		M	2800	mg/kg	0.10	1.5	0.96	1.1	0.82	20	1.3	1.3	29
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.76	0.44	0.62	0.50	11	0.89	0.71	14
Chrysene		M	2800	mg/kg	0.10	0.80	0.51	0.51	0.46	9.5	0.76	0.29	13
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	0.99	0.60	0.94	13	1.3	1.2	17
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.41	0.35	0.40	0.31	4.6	0.47	0.28	6.2
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.88	0.90	0.75	11	1.1	0.96	15
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.69	0.68	0.74	0.62	5.7	0.73	0.83	9.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	1.2	< 0.10	0.11	1.5
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.38	0.78	0.85	0.63	5.2	0.73	0.91	9.8
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.5	7.2	7.7	6.3	110	8.7	8.8	160

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932849	1932850	1932851	1932852	1932853	1932854	1932855	1932856	1932857	1932858
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-09E	TSP14A-10E	TSP14A-11E	TSP14A-12E	TSP14A-13E	TSP14A-14E	TSP14A-15E	TSP14A-16E	TSP14A-17E	TSP14A-18E
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.65	1.60	1.65	1.70	1.70	1.75	1.65	1.65	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	15	14	14	14	15	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	4.0	< 2.0	< 2.0	3.4	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	55	31	23	73	41	29	48
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	97	56	120	79	68	110
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	170	100	69	110	99	77	120
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	40	36	29	35	35	31	38
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	400	230	150	300	220	180	270
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	440	270	180	340	260	210	310
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	16	13	8.6	15	11	13	16
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	52	47	57	46	46	57
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	99	52	45	48	43	50	64
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	49	27	27	25	24	24	33
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	170	120	100	120	100	110	140
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	220	140	130	150	120	130	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	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	570	350	250	420	320	280	410
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	660	410	310	480	380	340	480
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	0.19	< 0.10	0.15	0.13	0.18	0.14

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217	25-05217
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932849	1932850	1932851	1932852	1932853	1932854	1932855	1932856		
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-09E	TSP14A-10E	TSP14A-11E	TSP14A-12E	TSP14A-13E	TSP14A-14E	TSP14A-15E	TSP14A-16E		
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A		
		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	1.65	1.60	1.65	1.70	1.70	1.75	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		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	0.15	< 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	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.61	0.48	0.31	0.79	0.48	1.1	0.70
Anthracene		M	2800	mg/kg	0.10	0.23	0.20	0.12	0.29	0.24	0.36	0.43
Fluoranthene		M	2800	mg/kg	0.10	1.2	1.5	0.96	2.5	1.7	2.3	4.6
Pyrene		M	2800	mg/kg	0.10	1.2	1.4	0.93	2.3	1.5	2.0	4.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.65	0.84	0.59	1.2	0.97	1.1	2.5
Chrysene		M	2800	mg/kg	0.10	0.53	0.60	0.61	1.2	1.1	1.1	2.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.61	0.83	0.96	1.7	1.8	1.8	3.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.32	0.46	0.30	0.57	0.60	0.62	1.6
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.98	1.2	0.90	1.6	1.6	1.5	3.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.71	0.83	0.76	1.2	1.2	1.1	2.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.27	0.24	0.77
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.74	0.87	0.81	1.1	1.1	1.1	2.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.2	9.5	7.3	15	13	15	28

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_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.: 25-06179-1

Initial Date of Issue: 10-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

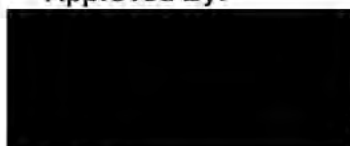
No. of Samples: 16

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 10-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.:	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936859	1936860	1936861	1936862	1936863	1936864	1936865	1936866		
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-01F	TSP14A-02F	TSP14A-03F	TSP14A-04F	TSP14A-05F	TSP14A-06F	TSP14A-07F	TSP14A-08F		
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Bottom Depth (m):	1.65	1.65	1.60	1.75	1.70	1.80	1.65	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		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	13	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 and	Stones, and Roots	Stones and	Stones and	Stones 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	3.7	< 2.0	3.3	4.1	4.5	< 2.0	3.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	46	43	23	37	20	47	25
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	110	110	73	95	57	100	69
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	74	71	39	68	35	82	48
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	230	220	140	200	120	230	150
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	230	220	140	200	120	230	150
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	9.6	16	9.0	11	5.2	14	8.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	46	47	33	32	38	76	35
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	91	94	100	72	78	120	58
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	55	43	60	25	25	50	18
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	150	160	140	120	120	210	100
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200	200	200	140	150	260	120
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	380	380	280	320	240	440	250
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	430	420	340	340	260	490	270
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	0.18	0.15	0.15	0.18	0.15	0.19	0.21

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936859	1936860	1936861	1936862	1936863	1936864	1936865	1936866	1936866	1936866
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-01F	TSP14A-02F	TSP14A-03F	TSP14A-04F	TSP14A-05F	TSP14A-06F	TSP14A-07F	TSP14A-08F	TSP14A-08F	TSP14A-08F
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.65	1.65	1.60	1.75	1.70	1.80	1.65	1.75	1.75	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	0.11	< 0.10	0.15	0.17	0.19	0.12
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.16	0.22	0.20	< 0.10	0.24	0.17
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	0.17	< 0.10	< 0.10	0.13
Phenanthrene		M	2800	mg/kg	0.10	1.5	0.91	1.2	0.97	0.63	0.82	0.68
Anthracene		M	2800	mg/kg	0.10	0.49	0.28	0.37	0.43	0.26	0.39	0.30
Fluoranthene		M	2800	mg/kg	0.10	2.7	2.2	2.8	2.4	2.1	2.1	2.2
Pyrene		M	2800	mg/kg	0.10	2.3	1.9	2.4	2.1	1.9	2.0	2.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	1.0	1.4	1.2	1.1	1.2	1.1
Chrysene		M	2800	mg/kg	0.10	1.1	1.1	1.4	1.0	1.2	1.1	0.96
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.7	2.0	1.9	2.1	1.9	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.63	0.58	0.75	0.64	0.65	0.86	0.61
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	1.4	1.7	1.5	1.7	1.6	1.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	1.1	1.2	1.2	1.3	1.4	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.22	0.21	0.21	0.22	0.46	0.26
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2	1.1	1.4	1.3	1.4	1.4	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	14	17	16	15	16	15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:		25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:		1936867	1936868	1936869	1936870	1936871	1936872	1936873	1936873
Order No.: S3240		Client Sample Ref.:		TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:		TSP14A-09F	TSP14A-10F	TSP14A-11F	TSP14A-12F	TSP14A-13F	TSP14A-14F	TSP14A-15F	TSP14A-15F
		Sample Location:		TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):		1.75	1.65	1.60	1.65	1.70	1.70	1.75	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
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 and	Stones, Roots and	Stones, Roots and	Stones 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	4.0	17	6.7	7.0	3.3
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	23	23	110	41	43	22
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	55	63	160	93	95	63
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	44	43	90	74	77	54
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	120	130	380	210	220	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	120	130	380	210	220	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
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	1.9	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.6	5.4	38	13	14	5.7
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	46	60	35	38	37
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	50	80	110	60	60	74
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	29	82	19	19	43
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	92	130	210	110	110	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	100	160	300	130	130	160
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	210	260	590	320	330	260
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	290	670	340	350	300
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	0.18	0.15	< 0.10	0.16	0.20	0.64

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06179	25-06179	25-06179	25-06179	25-06179	25-06179	25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936867	1936868	1936869	1936870	1936871	1936872	1936873
Order No.: S3240		Client Sample Ref.:				TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:				TSP14A-09F	TSP14A-10F	TSP14A-11F	TSP14A-12F	TSP14A-13F	TSP14A-14F	TSP14A-15F
		Sample Location:				TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.75	1.65	1.60	1.65	1.70	1.70	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							
Acenaphthylene		N	2800	mg/kg	0.10	0.16	< 0.10	0.19	0.15	0.17	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.18	0.19	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.29	< 0.10	0.12	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.78	0.82	1.0	1.0	0.72	0.67	0.63
Anthracene		M	2800	mg/kg	0.10	0.37	0.34	0.56	0.38	0.28	0.24	0.37
Fluoranthene		M	2800	mg/kg	0.10	2.3	2.5	2.5	2.5	1.9	1.6	1.8
Pyrene		M	2800	mg/kg	0.10	2.0	2.2	2.5	2.2	1.7	1.5	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	1.2	1.4	1.3	0.89	0.85	0.89
Chrysene		M	2800	mg/kg	0.10	1.1	1.0	1.4	1.3	0.78	0.76	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.9	2.3	1.9	1.7	1.5	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.62	0.63	0.99	0.65	0.60	0.52	0.53
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	1.6	1.8	1.6	1.3	1.2	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	1.2	1.7	1.1	1.1	0.93	0.97
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.23	0.24	0.59	0.22	< 0.10	0.20	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2	1.2	1.7	1.2	1.0	1.1	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	15	19	16	13	12	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936874
Order No.: S3240		Client Sample Ref.:				TSP14A
		Client Sample ID.:				TSP14A-16F
		Sample Location:				TSP14A
		Sample Type:				SOIL
		Bottom Depth (m):				1.65
		Date Sampled:				19-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, and Roots
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	5.3
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	41
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	97
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	36
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	14
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	60
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	150
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	150
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	220
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	370
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	400
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	550
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	0.40

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06179
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936874
Order No.: S3240		Client Sample Ref.:				TSP14A
		Client Sample ID.:				TSP14A-16F
		Sample Location:				TSP14A
		Sample Type:				SOIL
		Bottom Depth (m):				1.65
		Date Sampled:				19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Acenaphthylene		N	2800	mg/kg	0.10	0.16
Acenaphthene		M	2800	mg/kg	0.10	0.22
Fluorene		M	2800	mg/kg	0.10	0.16
Phenanthrene		M	2800	mg/kg	0.10	0.96
Anthracene		M	2800	mg/kg	0.10	0.33
Fluoranthene		M	2800	mg/kg	0.10	2.3
Pyrene		M	2800	mg/kg	0.10	2.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0
Chrysene		M	2800	mg/kg	0.10	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.62
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.19
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	15

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.: 25-08197-1
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
Order No.: S3240
No. of Samples: 16
Turnaround (Wkdays): 5
Date Approved: 21-Mar-2025

Date Received: 11-Mar-2025
Date Instructed: 11-Mar-2025
Results Due: 17-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.:	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944717	1944718	1944719	1944720	1944721	1944722	1944723	1944724	1944725	1944726
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-01G	TSP14A-02G	TSP14A-03G	TSP14A-04G	TSP14A-05G	TSP14A-06G	TSP14A-07G	TSP14A-08G	TSP14A-09G	TSP14A-10G
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.60	1.75	1.70	1.60	1.65	1.60	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	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	16	15	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, 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13	7.8	< 2.0	28	17	17	16
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	19	7.5	< 3.0	36	13	13	27
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	13	< 10	18	15	13	15
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	34	16	< 5.0	64	29	31	43
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	49	29	< 10	82	44	43	58
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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	17	9.9	34	23	17	20
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	15	2.4	< 2.0	43	14	8.9	20
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.4	4.0	1.8	24	6.6	4.4	7.6
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	40	19	9.9	77	37	26	40
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	46	23	12	100	44	30	47
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	74	35	12	140	66	56	83
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	94	52	14	180	88	73	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.:	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944717	1944718	1944719	1944720	1944721	1944722	1944723
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-01G	TSP14A-02G	TSP14A-03G	TSP14A-04G	TSP14A-05G	TSP14A-06G	TSP14A-07G
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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):	1.65	1.65	1.60	1.75	1.70	1.60	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				
Naphthalene		M	2800	mg/kg	0.10	0.71	0.19	0.22	0.19
Acenaphthylene		N	2800	mg/kg	0.10	0.91	0.11	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.18	0.17	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.78	0.12	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.6	2.0	0.69	0.49
Anthracene		M	2800	mg/kg	0.10	0.63	0.71	0.32	0.21
Fluoranthene		M	2800	mg/kg	0.10	2.0	4.6	1.7	1.5
Pyrene		M	2800	mg/kg	0.10	1.6	3.8	1.6	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.83	1.8	1.0	0.79
Chrysene		M	2800	mg/kg	0.10	0.73	1.7	1.2	0.72
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	2.6	2.3	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.46	0.75	0.64	0.40
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	2.2	1.8	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.90	1.5	1.5	0.80
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.81	1.5	1.3	0.86
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	24	14	9.8

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944724	1944725	1944726	1944727	1944728	1944729	1944730			
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-08G	TSP14A-09G	TSP14A-10G	TSP14A-11G	TSP14A-12G	TSP14A-13G	TSP14A-14G			
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.65	1.60	1.65	1.70	1.70	1.70	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	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	15	15	15	15	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	25	6.9	< 2.0	15	< 2.0	9.8
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	25	18	< 3.0	17	< 3.0	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	18	18	11	< 10	12	10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	51	24	< 5.0	32	< 5.0	25
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	69	42	11	32	12	36
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	1.3
Aromatic EPH >C12-C16 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 >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.5	39	41	7.6	27	11	7.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	52	43	< 2.0	24	< 2.0	6.6
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.1	30	29	2.8	12	5.5	7.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	5.5	92	84	8.2	51	13	16
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	120	110	11	63	19	24
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	< 10	140	110	11	83	15	41
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	190	150	25	94	32	59
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.:	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944724	1944725	1944726	1944727	1944728	1944729	1944730
Order No.: S3240		Client Sample Ref.:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		Client Sample ID.:	TSP14A-08G	TSP14A-09G	TSP14A-10G	TSP14A-11G	TSP14A-12G	TSP14A-13G	TSP14A-14G
		Sample Location:	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A	TSP14A
		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	1.65	1.60	1.65	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	0.16	0.20	0.14	0.27
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.12
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	0.34	0.55	0.59	0.74
Anthracene		M	2800	mg/kg	0.10	0.19	0.36	0.40	0.28
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.8	1.7	2.8
Pyrene		M	2800	mg/kg	0.10	0.98	1.6	1.5	2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.83	0.74	1.2
Chrysene		M	2800	mg/kg	0.10	0.65	0.80	0.72	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.7	1.5	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.35	0.47	0.47	0.49
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.5	1.2	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.73	1.1	0.77	0.96
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.13	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.75	1.2	0.86	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.9	12	11	15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944731	1944732
Order No.: S3240		Client Sample Ref.:				TSP14A	TSP14A
		Client Sample ID.:				TSP14A-15G	TSP14A-16G
		Sample Location:				TSP14A	TSP14A
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.75	1.65
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	15	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	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.7	8.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	23	26
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	27	23
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	12	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	52	58
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	64	71
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	1.2	1.3
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	3.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	18	19
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21	25
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	12
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	39	48
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	50	60
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	92	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	110	130
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.:				25-08197	25-08197
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944731	1944732
Order No.: S3240		Client Sample Ref.:				TSP14A	TSP14A
		Client Sample ID.:				TSP14A-15G	TSP14A-16G
		Sample Location:				TSP14A	TSP14A
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.75	1.65
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.21	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.30	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.21	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.14	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	3.2	0.36
Anthracene		M	2800	mg/kg	0.10	1.2	0.16
Fluoranthene		M	2800	mg/kg	0.10	9.2	1.1
Pyrene		M	2800	mg/kg	0.10	7.6	1.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	4.2	0.54
Chrysene		M	2800	mg/kg	0.10	3.9	0.49
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	5.6	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.0	0.37
Benzo[a]pyrene		M	2800	mg/kg	0.10	4.6	0.90
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	3.3	0.70
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.61	0.11
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	3.0	0.78
Total Of 16 PAH's		N	2800	mg/kg	2.0	49	7.7

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

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 014 – TSP14B**Stockpile ID**

Stockpile ID: TSP14B

Material Volume:

1,748 m³

Validation Samples Included per Round

18 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 13/08/2024

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: 25-05318 – 25/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06180 10/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08197– 17/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05318

Report Date: 25/02/2025

Sample ID (Sample Names): TSP14B-01E → TSP14B-18E Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

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

For total TPH, 17 out of 18 <1,000 mg/kg, with the higher exceedance at TSP14B-16E = 1,500 mg/kg. The average total TPH level is significantly below the 1,000 mg/kg threshold (at 613 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 2

Report Number: 25-06180

Report Date: 10/03/2025

Sample ID (Sample Names): TSP14B-01F → TSP14B-16F Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 313 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: 25-08199

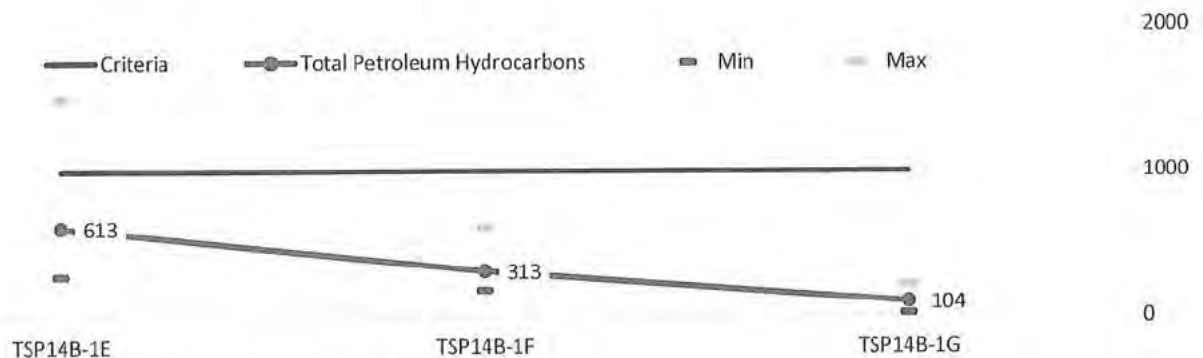
Report Date: 17/03/2025

Sample ID (Sample Names): TSP14B-01G → TSP14B-16G Report ID (Lab): Eurofins

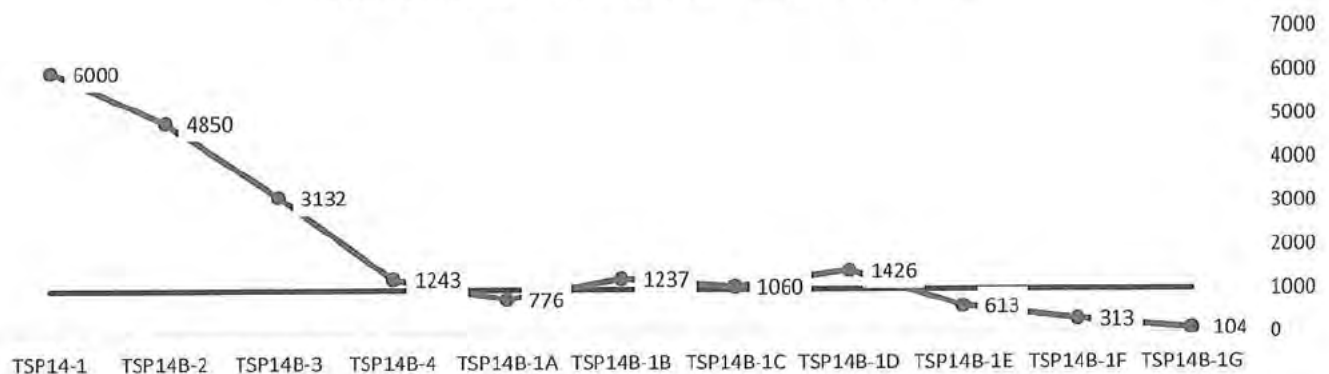
Comments:

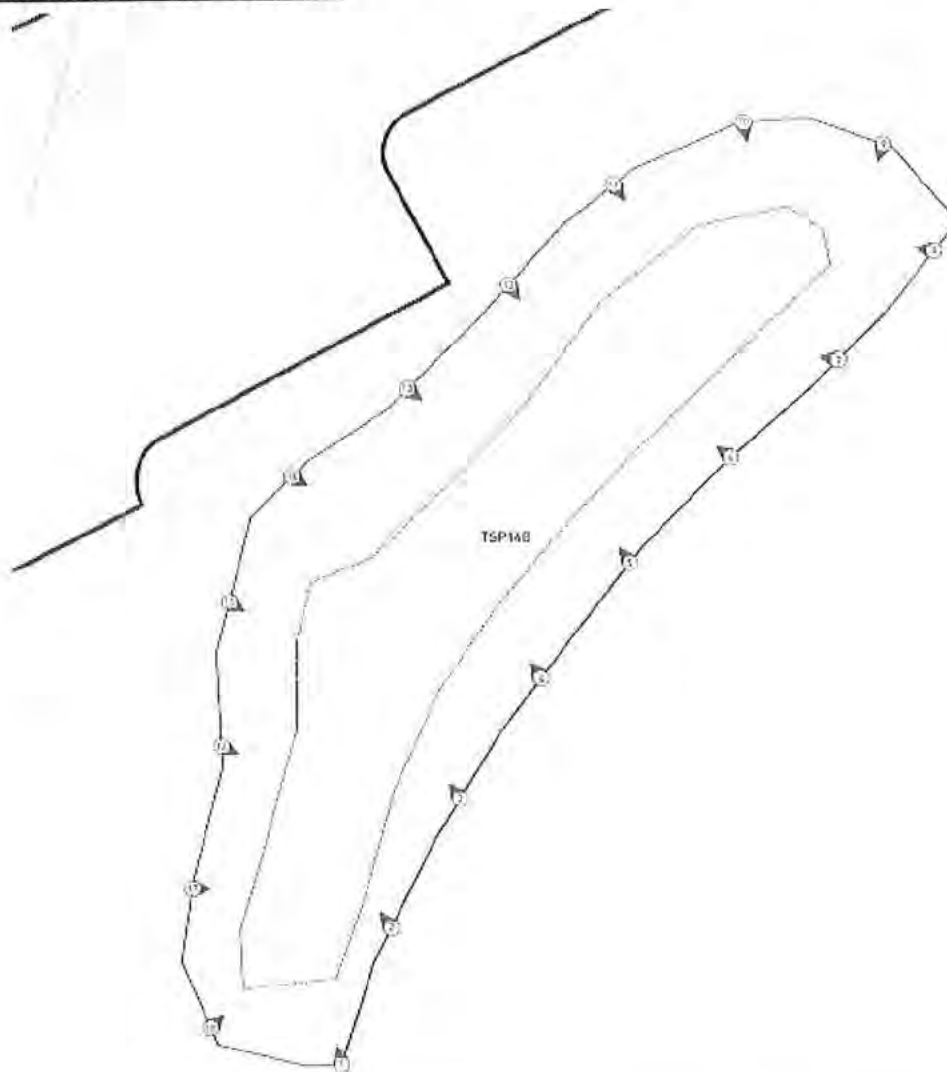
Test Results: PASS / FAIL

Average total TPH = 104 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:****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 98.27% when compared to the material's initial total TPH level (6,000 mg/kg (13th August 2024), compared to the final round's average of 104 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

Ardrossan Site Code: S3240

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.

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: [REDACTED]

POSITION: Senior Environmental Engineer

DATE: 26/03/2024

SIGNED:

[REDACTED]
Senior Environmental Engineer**Record of reuse***For Sanctus Use Only:*

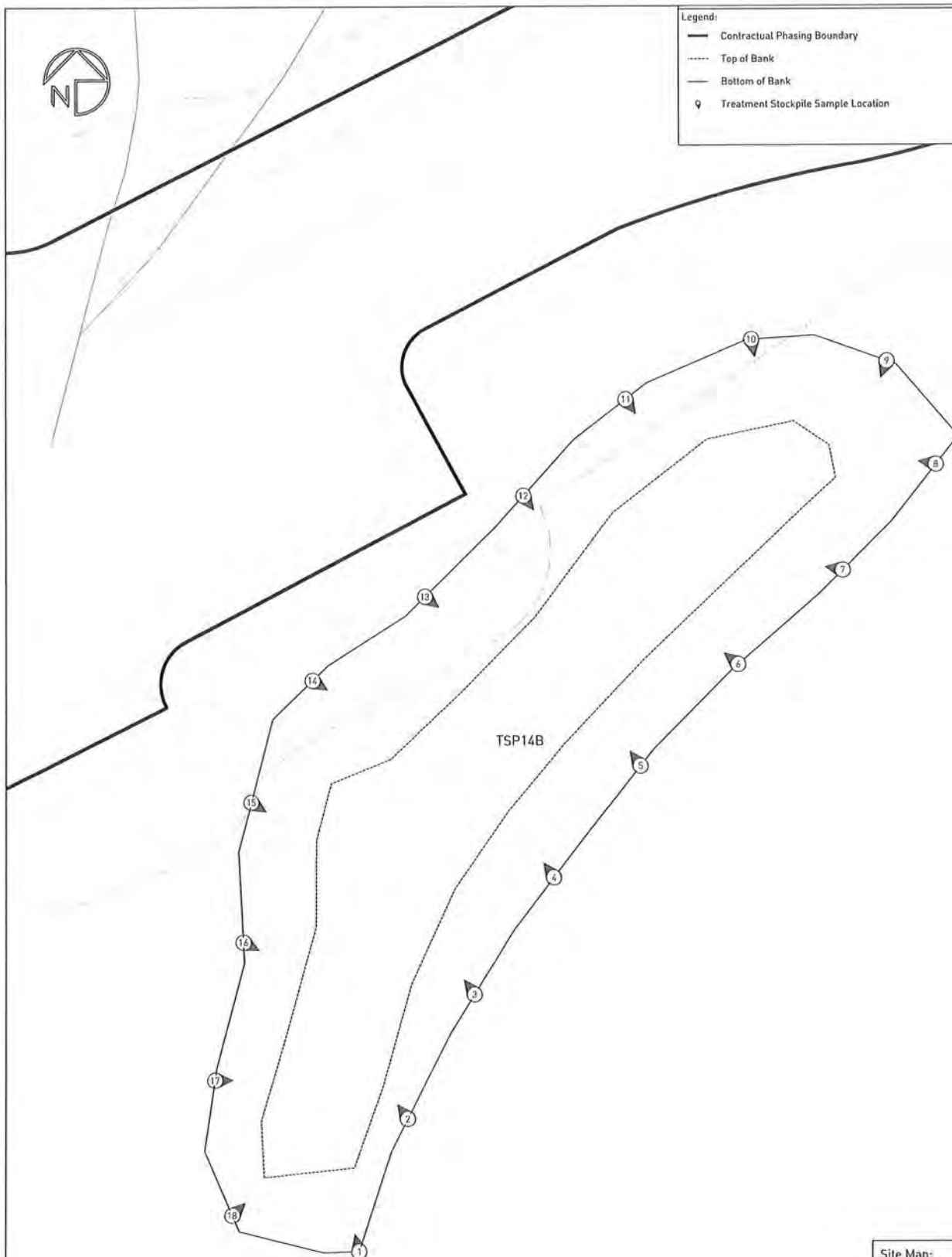
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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



Sanctus House, 1 Olympus Park Business Centre,
Quedgeley, Glos, GL2 4DH
T: 01453 828222
E: info@sanctusltd.co.uk www.sanctusltd.com

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	11/03/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 14B Sample Location Plan

Contract No:
S3240

Drawn By:
JH

Drawing No:
D3240/110

QC Check By:
ARW

Scale @ A3:
1:200 / 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
LOD		10	0.02	0.02	0.05	1	2	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	
TSP14B-01E	12/02/2025	370	< 0.05	< 0.10	< 0.05	< 2.0	32	73	85	190	< 0.05	< 0.05	< 0.05	< 1.0	14	54	51	120
TSP14B-02E	12/02/2025	450	< 0.05	< 0.10	< 0.05	< 2.0	43	100	100	250	< 0.05	< 0.05	< 0.05	< 1.0	25	49	59	130
TSP14B-03E	12/02/2025	560	< 0.05	< 0.10	< 0.05	3	64	130	130	330	< 0.05	< 0.05	< 0.05	< 1.0	15	58	76	150
TSP14B-04E	12/02/2025	540	< 0.05	< 0.10	< 0.05	3	59	160	140	360	< 0.05	< 0.05	< 0.05	< 1.0	13	74	110	190
TSP14B-05E	12/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	19	49	66	140	< 0.05	< 0.05	< 0.05	< 1.0	10	43	33	86
TSP14B-06E	12/02/2025	600	< 0.05	< 0.10	< 0.05	< 2.0	66	140	150	360	< 0.05	< 0.05	< 0.05	< 1.0	19	68	78	170
TSP14B-07E	12/02/2025	610	< 0.05	< 0.10	< 0.05	< 2.0	51	150	140	340	< 0.05	< 0.05	< 0.05	< 1.0	18	66	94	180
TSP14B-08E	12/02/2025	510	< 0.05	< 0.10	< 0.05	< 2.0	39	110	120	270	< 0.05	< 0.05	< 0.05	< 1.0	16	51	83	150
TSP14B-09E	12/02/2025	550	< 0.05	< 0.10	< 0.05	< 2.0	56	120	150	330	< 0.05	< 0.05	< 0.05	< 1.0	12	57	69	140
TSP14B-10E	12/02/2025	790	< 0.05	< 0.10	< 0.05	3	67	210	210	490	< 0.05	< 0.05	< 0.05	< 1.0	13	61	120	190
TSP14B-11E	12/02/2025	530	< 0.05	< 0.10	< 0.05	3	32	130	130	300	< 0.05	< 0.05	< 0.05	< 1.0	14	65	80	160
TSP14B-12E	12/02/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	35	81	89	210	< 0.05	< 0.05	< 0.05	< 1.0	13	48	56	120
TSP14B-13E	12/02/2025	470	< 0.05	< 0.10	< 0.05	< 2.0	41	100	98	240	< 0.05	< 0.05	< 0.05	< 1.0	16	77	73	170
TSP14B-14E	12/02/2025	700	< 0.05	< 0.10	< 0.05	< 2.0	72	170	150	380	< 0.05	< 0.05	< 0.05	< 1.0	17	60	140	210
TSP14B-15E	12/02/2025	870	< 0.05	< 0.10	< 0.05	< 2.0	79	220	220	520	< 0.05	< 0.05	< 0.05	< 1.0	18	71	140	230
TSP14B-16E	12/02/2025	1500	< 0.05	< 0.10	< 0.05	3	77	300	51	430	< 0.05	< 0.05	< 0.05	< 1.0	20	84	480	590
TSP14B-17E	12/02/2025	420	< 0.05	< 0.10	< 0.05	< 2.0	38	87	93	220	< 0.05	< 0.05	< 0.05	< 1.0	13	52	58	120
TSP14B-18E	12/02/2025	800	< 0.05	< 0.10	< 0.05	13	120	210	210	550	< 0.05	< 0.05	< 0.05	5	19	60	75	160
TSP14B-01F	19/02/2025	190	< 0.05	< 0.10	< 0.05	4	12	40	44	100	< 0.05	< 0.05	< 0.05	< 1.0	2	25	46	74
TSP14B-02F	19/02/2025	300	< 0.05	< 0.10	< 0.05	3	20	68	56	150	< 0.05	< 0.05	< 0.05	< 1.0	5	36	77	120
TSP14B-03F	19/02/2025	610	< 0.05	< 0.10	< 0.05	8	44	110	56	220	< 0.05	< 0.05	< 0.05	< 1.0	15	47	170	230
TSP14B-04F	19/02/2025	300	< 0.05	< 0.10	< 0.05	4	33	63	54	150	< 0.05	< 0.05	< 0.05	< 1.0	8	32	67	110
TSP14B-05F	19/02/2025	310	< 0.05	< 0.10	< 0.05	4	17	45	37	100	< 0.05	< 0.05	< 0.05	< 1.0	5	70	120	190
TSP14B-06F	19/02/2025	380	< 0.05	< 0.10	< 0.05	6	41	100	71	220	< 0.05	< 0.05	< 0.05	< 1.0	12	39	75	130
TSP14B-07F	19/02/2025	250	< 0.05	< 0.10	< 0.05	3	15	40	38	96	< 0.05	< 0.05	< 0.05	< 1.0	5	46	69	120
TSP14B-08F	19/02/2025	580	< 0.05	< 0.10	< 0.05	6	54	130	83	270	< 0.05	< 0.05	< 0.05	< 1.0	17	77	120	210
TSP14B-09F	19/02/2025	220	< 0.05	< 0.10	< 0.05	4	18	48	43	110	< 0.05	< 0.05	< 0.05	< 1.0	4	25	58	87
TSP14B-10F	19/02/2025	190	< 0.05	< 0.10	< 0.05	3	19	33	34	89	< 0.05	< 0.05	< 0.05	< 1.0	5	29	47	81
TSP14B-11F	19/02/2025	310	< 0.05	< 0.10	< 0.05	< 2.0	21	76	69	170	< 0.05	< 0.05	< 0.05	< 1.0	4	56	52	110
TSP14B-12F	19/02/2025	420	< 0.05	< 0.10	< 0.05	< 2.0	50	110	100	260	< 0.05	< 0.05	< 0.05	< 1.0	8	61	47	120
TSP14B-13F	19/02/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	11	37	53	100	< 0.05	< 0.05	< 0.05	< 1.0	2	33	27	62
TSP14B-14F	19/02/2025	370	< 0.05	< 0.10	< 0.05	2	32	95	80	210	< 0.05	< 0.05	< 0.05	< 1.0	6	50	65	120
TSP14B-15F	19/02/2025	380	< 0.05	< 0.10	< 0.05	< 2.0	19	68	66	150	< 0.05	< 0.05	< 0.05	< 1.0	3	80	110	190
TSP14B-16F	19/02/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	19	59	64	140	< 0.05	< 0.05	< 0.05	< 1.0	3	43	33	79
TSP14B-17F	19/02/2025	200	< 0.05	< 0.10	< 0.05	< 2.0	10	39	48	97	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	40	34	74
TSP14B-18F	19/02/2025	180	< 0.05	< 0.10	< 0.05	< 2.0	10	39	47	96	< 0.05	< 0.05	< 0.05	< 1.0	1	30	25	56
TSP14B-01G	06/03/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	7	31	29	86	< 0.05	< 0.05	< 0.05	1	2	19	34	57
TSP14B-02G	06/03/2025	140	< 0.05	< 0.10	< 0.05	< 2.0	10	37	25	72	< 0.05	< 0.05	< 0.05	1	3	21	30	56
TSP14B-03G	06/03/2025	51	< 0.05	< 0.10	< 0.05	2	1	10	8	22	< 0.05	< 0.05	< 0.05	1	< 1.0	9	9	20
TSP14B-04G	06/03/2025	40	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	8	11	20	< 0.05	< 0.05	< 0.05	1	< 1.0	4	5	10
TSP14B-05G	06/03/2025	67	< 0.05	< 0.10	< 0.05	< 2.0	2	14	15	33	< 0.05	< 0.05	< 0.05	1	< 1.0	7	14	22
TSP14B-06G	06/03/2025	66	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	13	11	27	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	11	16	28
TSP14B-07G	06/03/2025	140	< 0.05	< 0.10	< 0.05	< 2.0	7	30	26	65	< 0.05	< 0.05	< 0.05	< 1.0	1	27	35	64
TSP14B-08G	06/03/2025	220	< 0.05	< 0.10	< 0.05	3	18	55	33	110	< 0.05	< 0.05	< 0.05	1	6	31	54	93
TSP14B-09G	06/03/2025	120	< 0.05	< 0.10	< 0.05	3	12	19	16	50	< 0.05	< 0.05	< 0.05	< 1.0	1	24	23	49
TSP14B-10G	06/03/2025	120	< 0.05	< 0.10	< 0.05	2	10	26	26	63	< 0.05	< 0.05	< 0.05	< 1.0	5	16	16	38
TSP14B-11G	06/03/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	11	37	30	79	< 0.05	< 0.05	< 0.05	< 1.0	2	24	35	61
TSP14B-12G	06/03/2025	87	< 0.05	< 0.10	< 0.05	< 2.0	3	15	15	33	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	18	34
TSP14B-13G	06/03/2025	23	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	4	7	11	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	< 2.0	3	< 5.0
TSP14B-14G	06/03/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	4	21	21	45	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	18	24	43
TSP14B-15G	06/03/2025	69	< 0.05	< 0.10	< 0.05	< 2.0	3	12	19	35	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8	15	23
TSP14B-16G	06/03/2025	66	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	13	17	30	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	10	15	25
TSP14B-17G	06/03/2025	130	< 0.05	< 0.10	< 0.05	< 2.0	9	30	31	70	< 0.05	< 0.05	< 0.05	< 1.0	3	25	27	63
TSP14B-18G	06/03/2025	130	< 0.05	< 0.10	< 0.05	< 2.0	7	27	28	81	< 0.05	< 0.05	< 0.05	< 1.0	5	30	32	76



Final Report

Report No.: 25-05318-1
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

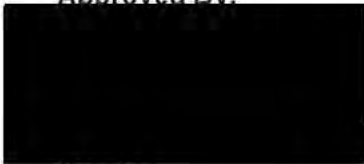
No. of Samples: 18

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.:	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932857	1932858	1932859	1932860	1932861	1932862	1932863	1932864		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-01E	TSP14B-02E	TSP14B-03E	TSP14B-04E	TSP14B-05E	TSP14B-06E	TSP14B-07E	TSP14B-08E		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.60	1.75	1.65	1.75	1.65	1.75	1.75	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	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	14	16	14	14	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	2.9	2.5	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	32	43	64	59	19	66	51
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	73	100	130	160	49	140	150
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	85	100	130	140	66	150	140
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	35	36	39	42	32	45	44
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	190	250	330	360	140	360	340
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	230	290	370	410	170	400	390
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	14	25	15	13	10	19	18
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54	49	58	74	43	68	66
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	51	59	76	110	33	78	94
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	27	29	39	37	24	35	42
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	130	150	190	86	170	180
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	150	160	190	230	110	200	220
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	310	380	480	560	220	520	520
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	370	450	560	640	280	600	610
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	0.11	< 0.10	0.13	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932857	1932858	1932859	1932860	1932861	1932862	1932863	1932864		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-01E	TSP14B-02E	TSP14B-03E	TSP14B-04E	TSP14B-05E	TSP14B-06E	TSP14B-07E	TSP14B-08E		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.60	1.75	1.65	1.75	1.65	1.75	1.75	1.70	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	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	< 0.10	0.10
Phenanthrene		M	2800	mg/kg	0.10	0.62	0.35	0.22	0.48	0.41	0.83	0.33
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.19	< 0.10	0.21	< 0.10	0.29	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	3.7	1.2	0.63	1.8	1.1	1.7	1.1
Pyrene		M	2800	mg/kg	0.10	3.2	1.1	0.68	1.7	1.0	1.5	0.94
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.1	0.55	< 0.10	0.81	0.50	0.67	0.48
Chrysene		M	2800	mg/kg	0.10	2.1	0.41	< 0.10	0.65	0.57	0.48	0.55
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.7	0.33	< 0.10	1.4	0.91	0.80	0.75
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.90	0.29	< 0.10	0.49	0.34	0.39	0.27
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	0.82	< 0.10	1.2	0.73	0.89	0.56
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	0.69	< 0.10	0.89	0.56	0.61	0.46
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2	0.80	< 0.10	0.97	0.58	0.73	0.46
Total Of 16 PAH's		N	2800	mg/kg	2.0	20	7.0	< 2.0	11	6.7	8.9	5.9

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932865	1932866	1932867	1932868	1932869	1932870	1932871	1932872		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-09E	TSP14B-10E	TSP14B-11E	TSP14B-12E	TSP14B-13E	TSP14B-14E	TSP14B-15E	TSP14B-16E		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.70	1.75	1.70	1.80	1.60	1.70	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	15	15	14	14	14	16
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	2.7	3.3	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	56	67	32	35	41	72	79
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	210	130	81	100	170	220
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	210	130	89	98	150	220
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	43	47	38	37	34	40	51
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	330	490	300	210	240	390	520
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	370	540	340	240	270	430	570
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	12	13	14	13	16	17	18
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	57	61	65	48	77	60	71
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	69	120	80	56	73	140	140
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	34	54	34	28	30	56	61
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	190	160	120	170	210	230
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	170	250	190	150	200	270	290
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	470	690	460	320	410	610	750
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	550	790	530	390	470	700	870
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	3.4	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	12	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	18	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	91	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.17	0.11	< 0.10	0.13	0.23	0.16	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932865	1932866	1932867	1932868	1932869	1932870	1932871	1932872		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-09E	TSP14B-10E	TSP14B-11E	TSP14B-12E	TSP14B-13E	TSP14B-14E	TSP14B-15E	TSP14B-16E		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.70	1.75	1.70	1.80	1.60	1.70	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							
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	0.45	0.27	0.79	0.50	0.64	0.48	0.76
Anthracene		M	2800	mg/kg	0.10	0.16	0.18	0.38	0.26	< 0.10	0.19	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.1	2.2	1.7	1.2	1.4	2.1
Pyrene		M	2800	mg/kg	0.10	1.2	1.0	2.0	1.4	1.1	1.2	0.99
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.60	0.88	0.85	0.57	0.64	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.71	0.65	1.1	0.70	0.63	0.67	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.99	1.1	1.6	1.2	0.94	1.1	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.37	0.31	0.52	0.28	0.28	0.31	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.85	1.0	1.2	0.95	0.72	0.92	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.66	0.80	0.83	0.75	0.50	0.67	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	0.12	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.75	0.77	1.0	0.80	0.59	0.66	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.2	7.9	13	9.6	7.4	8.5	2.3

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932873	1932874
Order No.: S3240		Client Sample Ref.:				TSP14B	TSP14B
		Client Sample ID.:				TSP14B-17E	TSP14B-18E
		Sample Location:				TSP14B	TSP14B
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.60	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	< 2.0	13
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	38	120
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	87	210
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	93	210
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	42	49
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	220	550
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	260	600
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	4.6
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	13	19
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	52	60
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	75
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	34	41
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	160	200
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	340	710
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	420	800
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	0.12	0.12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05318	25-05318
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932873	1932874
Order No.: S3240		Client Sample Ref.:				TSP14B	TSP14B
		Client Sample ID.:				TSP14B-17E	TSP14B-18E
		Sample Location:				TSP14B	TSP14B
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.60	1.75
		Date Sampled:				12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	0.18	0.14
Acenaphthene		M	2800	mg/kg	0.10	0.11	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.81	0.65
Anthracene		M	2800	mg/kg	0.10	0.97	0.37
Fluoranthene		M	2800	mg/kg	0.10	11	1.7
Pyrene		M	2800	mg/kg	0.10	9.3	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	4.2	0.78
Chrysene		M	2800	mg/kg	0.10	3.4	0.68
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	5.0	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.8	0.41
Benzo[a]pyrene		M	2800	mg/kg	0.10	4.4	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.7	0.87
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.45	0.14
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.7	0.98
Total Of 16 PAH's		N	2800	mg/kg	2.0	47	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



Final Report

Report No.: 25-06180-1
Initial Date of Issue: 10-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:

18

Turnaround (Wkdays):

5

Results Due:

27-Feb-2025

Date Approved:

10-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.:	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936875	1936876	1936877	1936878	1936879	1936880	1936881	1936882			
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-01F	TSP14B-02F	TSP14B-03F	TSP14B-04F	TSP14B-05F	TSP14B-06F	TSP14B-07F	TSP14B-08F			
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Bottom Depth (m):	1.75	1.80	1.75	1.85	1.75	1.85	1.75	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			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	14	14	14	14	14	14	13	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and	Stones and	Stones and	Stones and	Stones, Roots and	Stones and	Stones, and Roots	Stones, Roots and
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	4.3	3.4	7.6	3.7	3.9	6.0	2.9	5.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	12	20	44	33	17	41	15	54
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	40	68	110	63	45	100	40	130
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	44	56	56	54	37	71	38	83
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	11	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	100	150	220	150	100	220	96	270
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	100	150	220	160	100	220	96	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	< 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	< 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	2.1	5.1	15	8.1	5.4	12	4.6	17
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	36	47	32	70	39	46	77
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	46	77	170	67	120	75	69	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	13	40	160	32	21	31	32	96
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	74	120	230	110	190	130	120	210
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	86	160	390	140	210	160	150	310
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	170	270	460	260	290	350	220	480
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	190	300	610	300	310	380	250	580
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	0.15	0.52	< 0.10	0.16	0.17	0.19	0.13	0.21

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936875	1936876	1936877	1936878	1936879	1936880	1936881	1936882
Order No.: S3240		Client Sample Ref.:				TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:				TSP14B-01F	TSP14B-02F	TSP14B-03F	TSP14B-04F	TSP14B-05F	TSP14B-06F	TSP14B-07F	TSP14B-08F
		Sample Location:				TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.75	1.80	1.75	1.85	1.75	1.85	1.75	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
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	0.16	0.14	0.20	0.12	0.18
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	0.17	< 0.10	< 0.10	< 0.10	0.14
Fluorene		M	2800	mg/kg	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.6	< 0.10	0.68	0.81	0.87	1.1	1.4	0.90
Anthracene		M	2800	mg/kg	0.10	1.1	< 0.10	0.28	0.29	0.44	0.46	0.51	0.38
Fluoranthene		M	2800	mg/kg	0.10	6.1	< 0.10	2.2	2.0	2.6	3.0	3.6	2.4
Pyrene		M	2800	mg/kg	0.10	5.2	< 0.10	2.0	1.8	2.4	2.8	3.1	2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.8	< 0.10	1.2	1.0	1.5	1.6	1.8	1.3
Chrysene		M	2800	mg/kg	0.10	2.8	< 0.10	1.2	1.0	1.6	1.6	1.7	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.6	< 0.10	1.8	1.7	2.3	2.5	2.6	2.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.7	< 0.10	0.65	0.65	1.2	0.91	0.90	0.79
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.0	< 0.10	1.6	1.4	2.0	2.0	2.1	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.2	< 0.10	1.2	1.1	1.6	1.6	1.5	1.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.74	< 0.10	0.22	0.22	0.53	0.36	0.25	0.32
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.2	< 0.10	1.1	1.2	1.5	1.7	1.6	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	34	< 2.0	14	14	19	20	21	17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936883	1936884	1936885	1936886	1936887	1936888	1936889		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-09F	TSP14B-10F	TSP14B-11F	TSP14B-12F	TSP14B-13F	TSP14B-14F	TSP14B-15F		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.60	1.70	1.75	1.70	1.80	1.80	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	13	14
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 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	3.5	3.1	< 2.0	< 2.0	< 2.0	2.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	18	19	21	50	11	32
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	48	33	76	110	37	95
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	43	34	69	100	53	80
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	17	18	16	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	89	170	260	100	210
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	89	180	280	120	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	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.2	4.6	4.2	7.6	1.6	5.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	29	56	61	33	50
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	47	52	47	27	65
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	20	19	21	15	29
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	87	81	110	120	62	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	100	100	130	140	77	150
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	200	170	280	380	160	330
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	190	310	420	190	370
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	0.13	0.13	0.14	0.16	0.16	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180	25-06180
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936883	1936884	1936885	1936886	1936887	1936888	1936889
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-09F	TSP14B-10F	TSP14B-11F	TSP14B-12F	TSP14B-13F	TSP14B-14F	TSP14B-15F
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.60	1.70	1.75	1.70	1.80	1.80	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	0.13	0.13	0.19	0.13
Acenaphthene		M	2800	mg/kg	0.10	0.17	0.14	0.22	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.20	0.18	0.18	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.0	1.0	0.79	0.78
Anthracene		M	2800	mg/kg	0.10	0.55	0.62	0.28	0.43
Fluoranthene		M	2800	mg/kg	0.10	2.7	2.4	2.1	2.3
Pyrene		M	2800	mg/kg	0.10	2.4	2.2	1.9	2.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4	1.4	1.1	1.1
Chrysene		M	2800	mg/kg	0.10	1.5	1.4	0.90	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.3	2.1	1.9	2.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.0	1.1	0.74	0.81
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.8	1.8	1.6	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.6	1.6	1.2	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.52	0.70	0.26	0.27
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.7	1.7	1.3	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	19	19	15	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.: 25-06180					
Quotation No.: Q24-35340		Chemtest Sample ID.: 1936890					
Order No.: S3240		Client Sample Ref.: TSP14B					
		Client Sample ID.: TSP14B-16F					
		Sample Location: TSP14B					
		Sample Type: SOIL					
		Bottom Depth (m): 1.80					
		Date Sampled: 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	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	19	10
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	59	39
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	64	48
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	140	97
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	110
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	3.1	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	43	40
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	33	34
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	15
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	79	74
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	95	89
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	220	170
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	250	200
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	0.16	0.16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:		25-06180	25-06180	25-06180
Quotation No.: Q24-35340		Chemtest Sample ID.:		1936890	1936891	1936892
Order No.: S3240		Client Sample Ref.:		TSP14B	TSP14B	TSP14B
		Client Sample ID.:		TSP14B-16F	TSP14B-17F	TSP14B-18F
		Sample Location:		TSP14B	TSP14B	TSP14B
		Sample Type:		SOIL	SOIL	SOIL
		Bottom Depth (m):		1.80	1.80	1.75
		Date Sampled:		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
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	0.88
Anthracene		M	2800	mg/kg	0.10	0.42
Fluoranthene		M	2800	mg/kg	0.10	2.4
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	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.82
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3
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*; 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



Amended Report

Report No.: 25-08199-2

Initial Date of Issue: 21-Mar-2025

Date of Re-Issue: 24-Mar-2025

Re-Issue Details: This report has been revised and directly supersedes 25-08199-1 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: 18

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 21-Mar-2025

Approved By:

Details:

Technical Director
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.:	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944739	1944740	1944741	1944742	1944743	1944744	1944745			
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-01G	TSP14B-02G	TSP14B-03G	TSP14B-04G	TSP14B-05G	TSP14B-06G	TSP14B-07G			
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.60	1.75	1.65	1.75	1.65	1.75	1.65	1.75	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	16	15	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	2.3	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	7.2	9.7	1.3	< 1.0	2.0	< 1.0	7.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	31	37	10	8.2	14	13	30
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	29	25	8.0	11	15	11	26
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	13	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	68	72	22	20	33	27	65
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	81	72	22	20	33	27	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	1.3	1.3	1.1	1.1	1.3	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.3	3.4	< 1.0	< 1.0	< 1.0	< 1.0	1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	21	9.3	4.0	6.5	11	27
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	30	9.4	4.5	14	16	35
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	13	9.9	9.9	13	11	15
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	57	56	20	9.7	22	28	64
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	70	69	30	20	35	39	79
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	120	130	41	30	54	55	130
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	150	140	51	40	67	66	140
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.:	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944739	1944740	1944741	1944742	1944743	1944744	1944745			
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-01G	TSP14B-02G	TSP14B-03G	TSP14B-04G	TSP14B-05G	TSP14B-06G	TSP14B-07G			
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.60	1.75	1.65	1.75	1.65	1.75	1.65	1.75	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							
Naphthalene		M	2800	mg/kg	0.10	0.30	0.20	0.24	0.15	0.20	0.21	0.19
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	< 0.10	0.12	< 0.10	0.14
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 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	0.53	0.66	0.44	0.36	2.1	0.57	0.87
Anthracene		M	2800	mg/kg	0.10	0.24	0.26	0.20	< 0.10	0.65	0.24	0.31
Fluoranthene		M	2800	mg/kg	0.10	1.6	2.0	1.5	1.2	3.2	2.9	1.9
Pyrene		M	2800	mg/kg	0.10	1.4	1.8	1.4	1.2	2.5	2.6	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.75	0.96	0.74	0.73	1.4	1.6	0.92
Chrysene		M	2800	mg/kg	0.10	0.77	0.89	0.74	0.66	1.4	1.5	0.92
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	1.6	1.4	1.2	2.0	2.4	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.45	0.44	0.46	0.41	0.57	0.74	0.51
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.3	1.2	0.98	1.6	2.0	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.0	1.1	0.89	0.87	1.2	1.4	0.99
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.93	1.1	0.88	0.85	1.1	1.4	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	13	10	8.6	18	18	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944746	1944747	1944748	1944749	1944750	1944751	1944752		
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-08G	TSP14B-09G	TSP14B-10G	TSP14B-11G	TSP14B-12G	TSP14B-13G	TSP14B-14G		
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B		
		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	1.60	1.70	1.75	1.70	1.60	1.60		
		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	16	15	16	16	16	16
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	2.7	2.6	2.2	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	18	12	9.6	11	2.6	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	55	19	26	37	15	3.6
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	33	16	26	30	15	7.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	10	14	< 10	11	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	50	63	79	33	11
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	61	77	79	44	11
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	1.2	< 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	5.8	1.2	4.9	1.9	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	31	24	16	24	16	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54	23	16	35	18	2.6
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	12	8.0	15	9.0	8.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	93	49	38	61	34	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	61	46	76	43	< 10
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	200	99	100	140	67	15
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	120	120	150	87	23
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.:				25-08199	25-08199	25-08199	25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944746	1944747	1944748	1944749	1944750	1944751	1944752
Order No.: S3240		Client Sample Ref.:				TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:				TSP14B-08G	TSP14B-09G	TSP14B-10G	TSP14B-11G	TSP14B-12G	TSP14B-13G	TSP14B-14G
		Sample Location:				TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B	TSP14B
		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	1.60	1.70	1.75	1.70	1.60	1.60
		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	0.61	0.29	0.23	0.27	0.31	0.28	0.24
Acenaphthylene		N	2800	mg/kg	0.10	0.49	0.14	< 0.10	< 0.10	0.11	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.14	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.42	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.3	0.49	0.60	0.67	1.0	0.37	0.91
Anthracene		M	2800	mg/kg	0.10	0.42	0.18	0.27	0.24	0.36	0.19	0.30
Fluoranthene		M	2800	mg/kg	0.10	2.1	1.3	2.0	1.9	2.5	1.2	1.9
Pyrene		M	2800	mg/kg	0.10	1.9	1.2	1.8	1.7	2.1	1.1	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4	0.70	1.2	0.97	1.2	0.64	0.93
Chrysene		M	2800	mg/kg	0.10	1.1	0.49	0.83	0.71	1.1	0.51	0.88
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.9	1.3	1.9	1.7	1.8	1.2	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.66	0.45	0.62	0.57	0.58	0.38	0.49
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6	1.1	1.6	1.5	1.7	1.1	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	0.81	1.2	1.1	1.0	0.81	0.98
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	0.15	0.23	0.19	0.18	0.14	0.14
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.99	0.84	1.1	1.1	1.0	0.83	0.93
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	9.4	14	13	15	8.8	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944753	1944754	1944755	1944756
Order No.: S3240		Client Sample Ref.:				TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:				TSP14B-15G	TSP14B-16G	TSP14B-17G	TSP14B-18G
		Sample Location:				TSP14B	TSP14B	TSP14B	TSP14B
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.60	1.60	1.75
		Date Sampled:				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	15
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	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.8	< 1.0	9.1	6.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	12	13	30	27
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	19	17	31	28
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	35	30	70	61
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	35	30	70	61
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	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	3.1	5.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.2	10	25	30
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	15	15	27	32
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	11	4.0	4.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	23	25	63	76
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	34	36	67	80
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	58	55	130	130
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	69	66	130	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.:	25-08199	25-08199	25-08199	25-08199
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944753	1944754	1944755	1944756
Order No.: S3240		Client Sample Ref.:	TSP14B	TSP14B	TSP14B	TSP14B
		Client Sample ID.:	TSP14B-15G	TSP14B-16G	TSP14B-17G	TSP14B-18G
		Sample Location:	TSP14B	TSP14B	TSP14B	TSP14B
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.60	1.60	1.75
		Date Sampled:	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	0.40
Acenaphthylene		N	2800	mg/kg	0.10	0.25
Acenaphthene		M	2800	mg/kg	0.10	0.19
Fluorene		M	2800	mg/kg	0.10	0.33
Phenanthrene		M	2800	mg/kg	0.10	1.9
Anthracene		M	2800	mg/kg	0.10	1.1
Fluoranthene		M	2800	mg/kg	0.10	3.9
Pyrene		M	2800	mg/kg	0.10	3.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.2
Chrysene		M	2800	mg/kg	0.10	1.9
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.98
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.8
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.33
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.7
Total Of 16 PAH's		N	2800	mg/kg	2.0	26

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

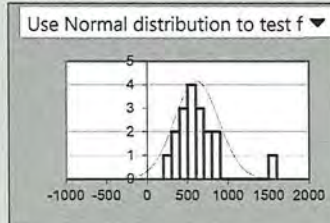
If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Test Results

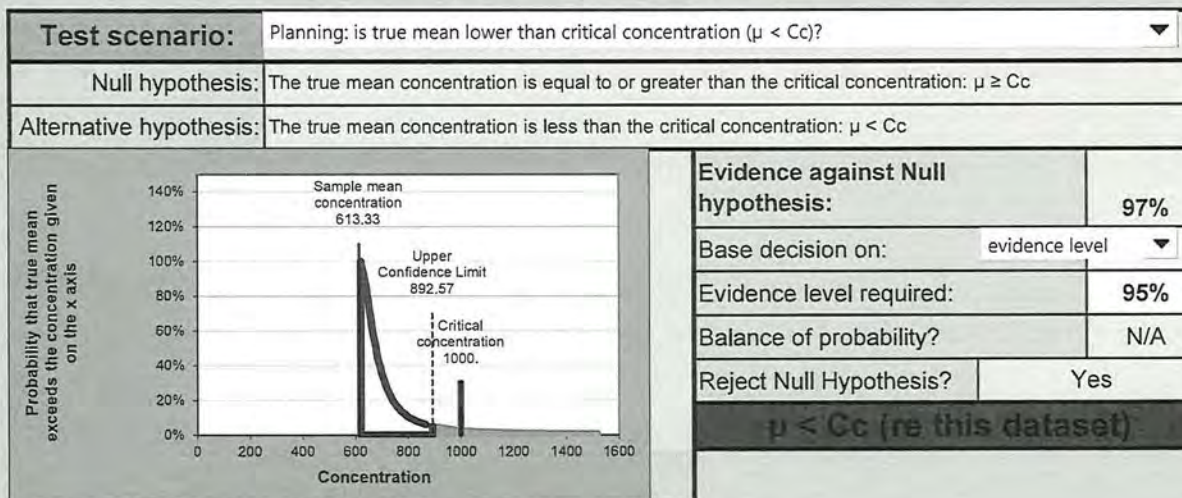
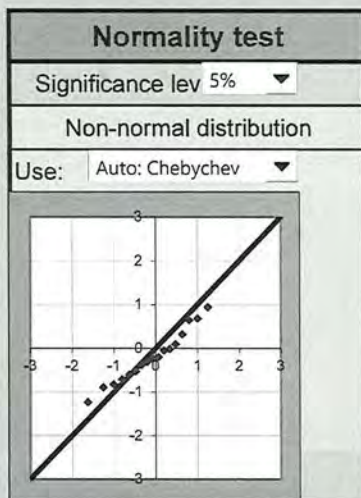
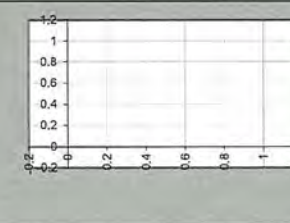
Client/client ref: Sanctus
Project ref: S3240

Site ref: TSP 24
Data description: Treatment stockpile 24 treatment User details: EJ
Date: 27-Feb-2025

Dataset	Total TPH
Sample mean, $\bar{x}$	613.33
Sample standard deviation, s	271.79
Sample size, n	18
Critical concentration, Cc	1000



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

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

Treated Stockpile Reuse Validation Form 015 – TSP17**Stockpile ID**

Stockpile ID: TSP17

Material Volume:

728 m³

Validation Samples Included per Round

8 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 8 of 10)	Sample Date: 12/02/2025	Report Number & Date: 25-05320 – 24/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 9 of 10)	Sample Date: 19/02/2025	Report Number & Date: 25-06183 04/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 10 of 10)	Sample Date: 06/03/2025	Report Number & Date: 25-08203– 18/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05320

Report Date: 24/02/2025

Sample ID (Sample Names): TSP17-01E → TSP17-08E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 515 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.

Passing Round 2

Report Number: 25-06183

Report Date: 04/03/2025

Sample ID (Sample Names): TSP17-01F → TSP17-08F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 435 mg/kg. Overall, 9th round of sampling undertaken from the treated Stockpile.

For total TPH, 7 out of 8 <1,000 mg/kg, with the higher exceedance at TSP17-02F = 1,200 mg/kg. The average total TPH level is significantly below the 1,000 mg/kg threshold (at 435 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: 25-08203

Report Date: 18/03/2025

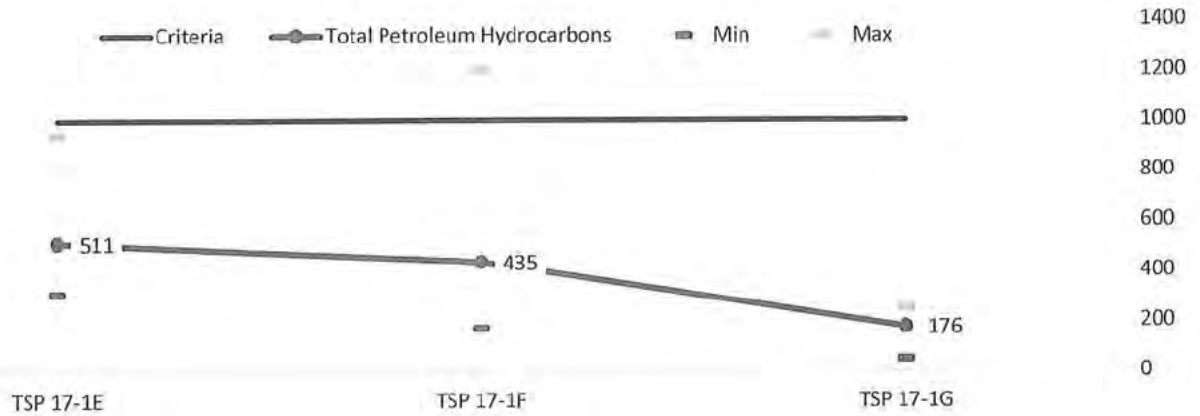
Sample ID (Sample Names): TSP17-01G → TSP17-08G

Report ID (Lab): Eurofins

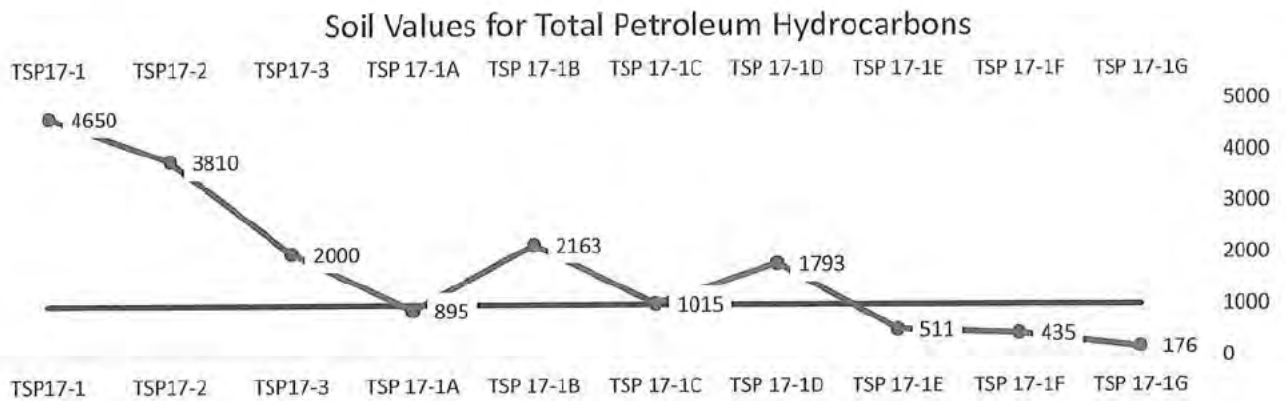
Comments:

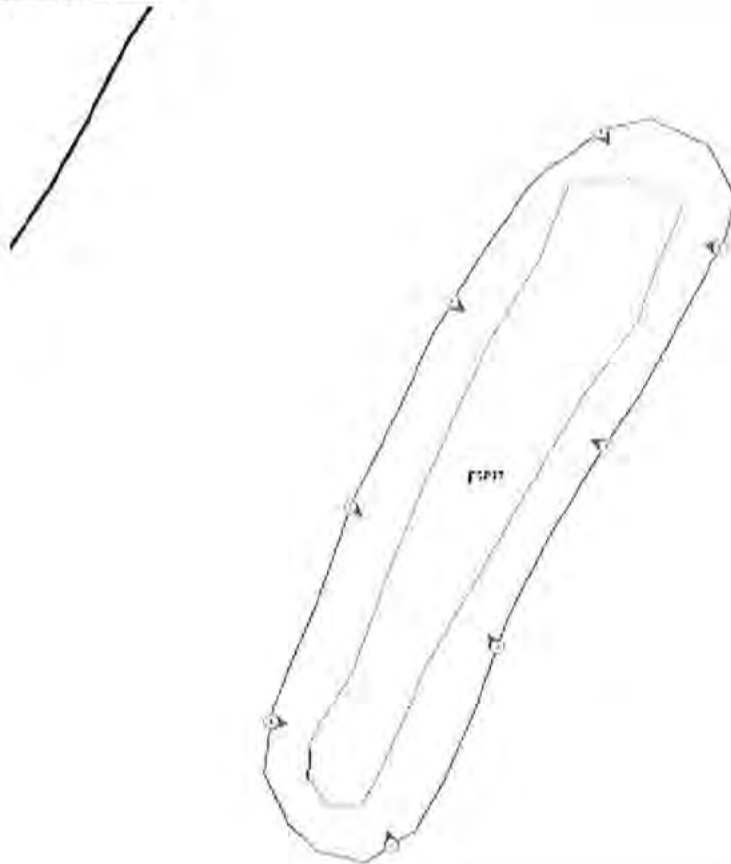
Test Results: PASS / FAIL

Average total TPH = 176 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.

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 96.22% when compared to the material's initial total TPH level (4,650 mg/kg (26th September 2024), compared to the final round's average of 176 mg/kg (6th March 2025)):



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.

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: 26/03/2024

SIGNED:

Senior Environmental Engineer

Record of reuse

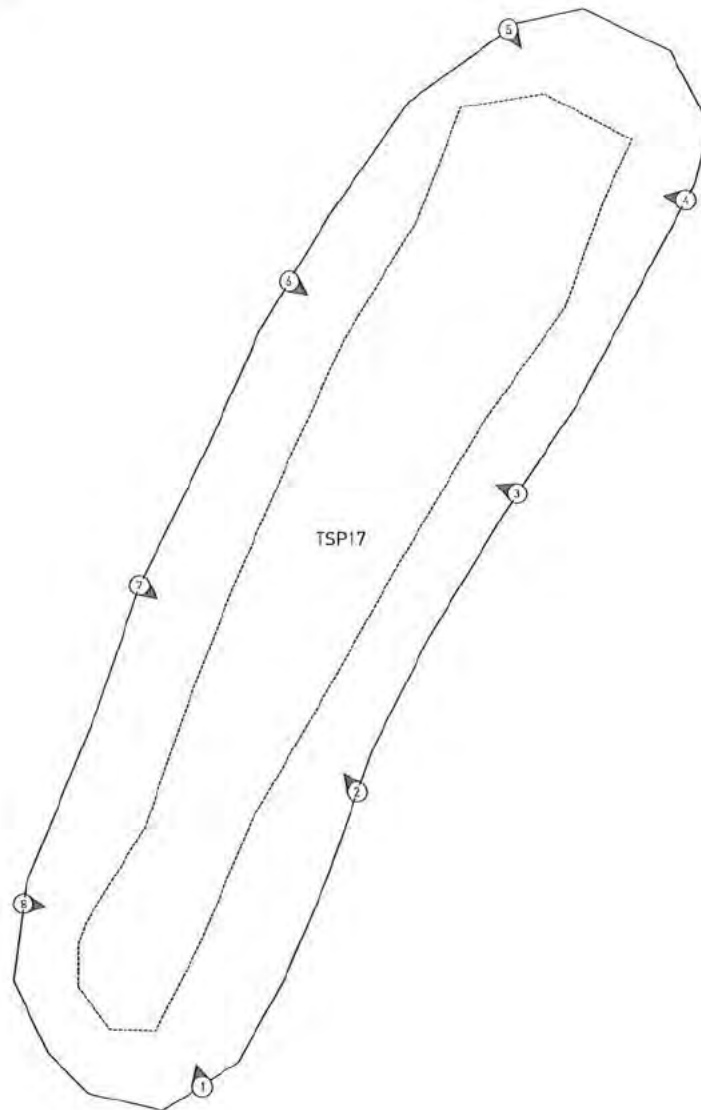
Approved for reuse:

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 -
RDROSSAN 2D produced by Aird Group,
03/03/2020. Must be printed in colour.

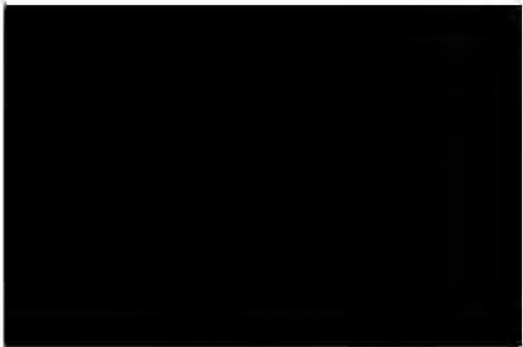
Site Address:
Daylight Place
Ardrossan
North Ayrshire
Scotland

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

APPROVED

Project Name: North Shore, Ardrossan		
Client: North Ayrshire Council		
Drawing Title: Treatment Stockpile 17 Sample Location Plan		
Contract No: 53240	Drawing No: 03240/113	Scale (to 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 C16	Aromatic TPH >C12-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	
TSP17-01E	12/02/2025	940	< 0.05	< 0.10	< 0.05	22	120	260	250	650	< 0.05	< 0.05	< 0.05	3	18	66	100.0	190
TSP17-02E	12/02/2025	700	< 0.05	< 0.10	< 0.05	< 2.0	74	170	69	310	< 0.05	< 0.05	< 0.05	< 1.0	7	71	200.0	260
TSP17-03E	12/02/2025	450	< 0.05	< 0.10	< 0.05	< 2.0	63	130	100	300	< 0.05	< 0.05	< 0.05	< 1.0	7	41	53.0	100
TSP17-04E	12/02/2025	310	< 0.05	< 0.10	< 0.05	< 2.0	25	77	92	190	< 0.05	< 0.05	< 0.05	< 1.0	6	26	38.0	70
TSP17-05E	12/02/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	43	110	93	240	< 0.05	< 0.05	< 0.05	< 1.0	5	35	62.0	100
TSP17-06E	12/02/2025	310	< 0.05	< 0.10	< 0.05	< 2.0	33	91	70	190	< 0.05	< 0.05	< 0.05	< 1.0	6	30	42.0	78
TSP17-07E	12/02/2025	510	< 0.05	< 0.10	< 0.05	< 2.0	62	170	130	360	< 0.05	< 0.05	< 0.05	< 1.0	4	42	61.0	110
TSP17-08E	12/02/2025	480	< 0.05	< 0.10	< 0.05	< 2.0	51	150	120	320	< 0.05	< 0.05	< 0.05	< 1.0	9	36	67.0	110
TSP17-01F	19/02/2025	300	< 0.05	< 0.10	< 0.05	6	33	60	48	150	< 0.05	< 0.05	< 0.05	< 1.0	6	54	65.0	130
TSP17-02F	19/02/2025	1200	< 0.05	< 0.10	< 0.05	9	100	270	31	420	< 0.05	< 0.05	< 0.05	15	92	220	360.0	660
TSP17-03F	19/02/2025	340	< 0.05	< 0.10	< 0.05	6	31	41	24	100	< 0.05	< 0.05	< 0.05	< 1.0	8	90	76.0	170
TSP17-04F	19/02/2025	170	< 0.05	< 0.10	< 0.05	5	10	21	30	66	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	48	44.0	92
TSP17-05F	19/02/2025	540	< 0.05	< 0.10	< 0.05	9	34	60	28	130	< 0.05	< 0.05	< 0.05	13	23	88	110.0	230
TSP17-06F	19/02/2025	360	< 0.05	< 0.10	< 0.05	5	36	57	40	140	< 0.05	< 0.05	< 0.05	< 1.0	12	84	82.0	180
TSP17-07F	19/02/2025	360	< 0.05	< 0.10	< 0.05	< 2.0	19	68	54	140	< 0.05	< 0.05	< 0.05	< 1.0	11	67	48.0	150
TSP17-08F	19/02/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	14	60	59	130	< 0.05	< 0.05	< 0.05	< 1.0	2	36	31.0	70
TSP17-01G	06/03/2025	230	< 0.05	< 0.10	< 0.05	< 2.0	13	54	43	110	< 0.05	< 0.05	< 0.05	< 1.0	5	24	57.0	86
TSP17-02G	06/03/2025	120	< 0.05	< 0.10	< 0.05	< 2.0	2	30	24	56	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	29.0	45
TSP17-03G	06/03/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	11	38	34	84	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	12	37.0	49
TSP17-04G	06/03/2025	220	< 0.05	< 0.10	< 0.05	< 2.0	10	41	36	87	< 0.05	< 0.05	< 0.05	< 1.0	2	37	60.0	99
TSP17-05G	06/03/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	4	61	53	120	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	32	65.0	97
TSP17-06G	06/03/2025	47	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	13	7	20	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	10	10.0	20
TSP17-07G	06/03/2025	220	< 0.05	< 0.10	< 0.05	< 2.0	8	51	43	99	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	24	58.0	83
TSP17-08G	06/03/2025	170	< 0.05	< 0.10	< 0.05	< 2.0	2	46	32	80	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	25	48.0	73



Final Report

Report No.: 25-05320-1
Initial Date of Issue: 24-Feb-2025

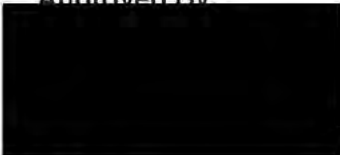
Re-Issue Details:

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:	8		
Turnaround (Wkdays):	5	Results Due:	20-Feb-2025
Date Approved:	24-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.:	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932899	1932900	1932901	1932902	1932903	1932904	1932905	1932906	1932906	1932906
Order No.: S3240		Client Sample Ref.:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Client Sample ID.:	TSP17-01E	TSP17-02E	TSP17-03E	TSP17-04E	TSP17-05E	TSP17-06E	TSP17-07E	TSP17-08E	TSP17-08E	TSP17-08E
		Sample Location:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		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	1.75	1.70	1.75	1.65	1.65	1.70	1.70	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	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	13	13	14	18	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	22	< 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	120	74	63	25	43	33	62
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	260	170	130	77	110	91	170
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	250	69	100	92	93	70	130
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	52	< 10	19	25	16	15	17
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	650	310	300	190	240	190	360
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	700	310	320	220	260	210	370
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	2.9	< 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	18	6.6	7.4	6.1	5.1	6.4	3.9
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	66	71	41	26	35	30	42
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	100	200	53	38	62	42	61
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	41	110	32	18	31	23	33
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	190	280	100	70	100	79	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	230	380	130	88	130	100	140
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	840	590	400	260	340	270	460
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	940	700	450	310	390	310	510
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	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320	25-05320
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932899	1932900	1932901	1932902	1932903	1932904	1932905	1932906		
Order No.: S3240		Client Sample Ref.:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17		
		Client Sample ID.:	TSP17-01E	TSP17-02E	TSP17-03E	TSP17-04E	TSP17-05E	TSP17-06E	TSP17-07E	TSP17-08E		
		Sample Location:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17		
		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	1.75	1.70	1.75	1.65	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	< 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	0.18	0.62	0.31	0.35	0.53	0.84	0.60
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.26	0.13	0.11	0.21	0.45	0.26
Fluoranthene		M	2800	mg/kg	0.10	0.72	1.4	1.1	0.94	1.3	2.0	1.7
Pyrene		M	2800	mg/kg	0.10	0.63	1.2	1.0	0.82	1.2	1.6	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.36	0.68	0.55	0.42	0.69	1.1	0.82
Chrysene		M	2800	mg/kg	0.10	0.30	0.71	0.40	0.43	0.56	1.1	0.68
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68	1.0	1.0	0.72	1.2	1.8	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.18	0.37	0.37	0.26	0.44	0.61	0.50
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.61	0.90	0.85	0.58	1.0	1.5	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.47	0.67	0.63	0.43	0.96	1.3	0.92
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	0.22	0.12
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.50	0.69	0.66	0.47	0.90	1.3	0.86
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.6	8.5	7.0	5.5	9.2	14	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*; 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.: 25-06183-1
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: 8

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.:		25-06183	25-06183	25-06183	25-06183	25-06183	25-06183	25-06183	25-06183	25-06183
Quotation No.: Q24-35340		Chemtest Sample ID.:		1936917	1936918	1936919	1936920	1936921	1936922	1936923	1936923	1936923
Order No.: S3240		Client Sample Ref.:		TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Client Sample ID.:		TSP17-01F	TSP17-02F	TSP17-03F	TSP17-04F	TSP17-05F	TSP17-06F	TSP17-07F	TSP17-07F	TSP17-07F
		Sample Location:		TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):		1.65	1.65	1.75	1.70	1.75	1.65	1.65	1.65	1.65
		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	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and brick	Stones and brick	Stones, Roots and brick	Stones and Roots	Stones, Roots and brick	Stones and Roots	Stones, Roots 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	6.4	8.7	6.3	5.4	9.1	5.3	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	33	100	31	9.6	34	36	19
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	60	270	41	21	60	57	68
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	48	31	24	30	28	40	54
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	150	420	100	66	130	140	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	150	420	100	66	130	140	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	15	< 1.0	< 1.0	13	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.4	92	7.6	< 1.0	23	12	11
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54	220	90	48	88	84	87
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	65	360	76	44	110	92	48
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	29	99	68	13	170	34	76
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	690	170	92	230	190	150
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	150	790	240	110	400	220	220
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	270	1100	280	160	360	330	290
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	300	1200	340	170	540	360	360
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	< 0.10	0.19	0.20	0.17	0.19	0.17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06183	25-06183	25-06183	25-06183	25-06183	25-06183	25-06183
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936917	1936918	1936919	1936920	1936921	1936922	1936923
Order No.: S3240		Client Sample Ref.:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Client Sample ID.:	TSP17-01F	TSP17-02F	TSP17-03F	TSP17-04F	TSP17-05F	TSP17-06F	TSP17-07F
		Sample Location:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.65	1.65	1.75	1.70	1.75	1.65	1.65
		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	0.13	< 0.10	0.15	0.18
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.22
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.18
Phenanthrene		M	2800	mg/kg	0.10	0.86	0.54	1.1	0.80
Anthracene		M	2800	mg/kg	0.10	0.30	0.23	0.38	0.30
Fluoranthene		M	2800	mg/kg	0.10	2.3	1.6	2.6	2.1
Pyrene		M	2800	mg/kg	0.10	2.1	1.5	2.1	1.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.3	0.84	1.2	0.93
Chrysene		M	2800	mg/kg	0.10	1.4	0.96	0.87	0.70
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.1	1.6	2.0	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.78	0.51	0.72	0.56
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.3	1.7	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	0.97	1.4	0.98
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.22	0.14	0.21	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	1.0	1.2	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	11	16	13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06183
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936924
Order No.: S3240		Client Sample Ref.:				TSP17
		Client Sample ID.:				TSP17-08F
		Sample Location:				TSP17
		Sample Type:				SOIL
		Bottom Depth (m):				1.70
		Date Sampled:				19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	14
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and brick
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	14
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	60
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	56
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	130
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	130
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	2.4
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	36
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	31
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	8.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	70
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	78
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	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	210
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	0.14

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:		25-06183	
Quotation No.: Q24-35340		Chemtest Sample ID.:		1936924	
Order No.: S3240		Client Sample Ref.:		TSP17	
		Client Sample ID.:		TSP17-08F	
		Sample Location:		TSP17	
		Sample Type:		SOIL	
		Bottom Depth (m):		1.70	
		Date Sampled:		19-Feb-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Acenaphthylene		N	2800	mg/kg	0.10
Acenaphthene		M	2800	mg/kg	0.10
Fluorene		M	2800	mg/kg	0.10
Phenanthrene		M	2800	mg/kg	0.10
Anthracene		M	2800	mg/kg	0.10
Fluoranthene		M	2800	mg/kg	0.10
Pyrene		M	2800	mg/kg	0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10
Chrysene		M	2800	mg/kg	0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0

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
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LOD	Limit of detection

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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.

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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

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FC - Florisil Clean Up

HWOL Acronym System

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1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
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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.: 25-08203-1

Initial Date of Issue: 18-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: 8

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 18-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.:	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944789	1944790	1944791	1944792	1944793	1944794	1944795	1944796	1944797	1944798
Order No.: S3240		Client Sample Ref.:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		Client Sample ID.:	TSP17-01G	TSP17-02G	TSP17-03G	TSP17-04G	TSP17-05G	TSP17-06G	TSP17-07G	TSP17-08G	TSP17-09G	TSP17-10G
		Sample Location:	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17
		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	1.75	1.70	1.75	1.65	1.65	1.65	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	06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	16	16	15	16	16	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 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	13	1.6	11	9.7	4.4	< 1.0	5.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	54	30	38	41	61	13	51
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	43	24	34	36	53	6.7	43
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	12	12	< 10	< 10	< 10	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	56	84	87	120	20	99
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	130	68	96	87	120	20	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	< 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	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	16	12	37	32	9.8	24
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	57	29	37	60	65	10	58
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	6.2	9.0	34	32	6.8	27
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	86	45	49	99	97	20	83
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	100	51	58	130	130	27	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	200	100	130	190	220	40	180
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	120	150	220	250	47	220
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.:		25-08203	25-08203	25-08203	25-08203	25-08203	25-08203	25-08203		
Quotation No.: Q25-37100		Chemtest Sample ID.:		1944789	1944790	1944791	1944792	1944793	1944794	1944795		
Order No.: S3240		Client Sample Ref.:		TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17		
		Client Sample ID.:		TSP17-01G	TSP17-02G	TSP17-03G	TSP17-04G	TSP17-05G	TSP17-06G	TSP17-07G		
		Sample Location:		TSP17	TSP17	TSP17	TSP17	TSP17	TSP17	TSP17		
		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):		1.65	1.65	1.75	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		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.26	< 0.10	0.25	< 0.10	0.25	0.22	0.34
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	1.0	0.78	2.1	0.71	1.7	0.51	1.2
Anthracene		M	2800	mg/kg	0.10	0.35	0.27	0.81	< 0.10	0.56	0.24	0.44
Fluoranthene		M	2800	mg/kg	0.10	2.5	1.4	7.5	1.6	4.2	2.5	3.1
Pyrene		M	2800	mg/kg	0.10	2.5	1.3	6.0	1.4	4.2	2.5	2.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4	< 0.10	4.8	< 0.10	1.9	1.3	1.5
Chrysene		M	2800	mg/kg	0.10	1.2	< 0.10	4.0	< 0.10	1.9	1.1	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.2	< 0.10	6.2	< 0.10	2.8	2.2	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.71	< 0.10	2.0	< 0.10	1.0	0.83	0.79
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	< 0.10	4.7	< 0.10	2.2	1.7	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	< 0.10	3.7	< 0.10	1.5	1.1	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.20	< 0.10	< 0.10	< 0.10	0.21	0.15	0.33
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2	< 0.10	2.3	< 0.10	1.5	1.2	1.6
Total Of 16 PAH's		N	2800	mg/kg	2.0	17	3.8	44	3.7	24	16	19

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08203
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944796
Order No.: S3240		Client Sample Ref.:				TSP17
		Client Sample ID.:				TSP17-08G
		Sample Location:				TSP17
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.70
		Date Sampled:				06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	15
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	46
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	32
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	80
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	80
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	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	48
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	13
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	73
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	86
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	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	170
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.:				25-08203
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944796
Order No.: S3240		Client Sample Ref.:				TSP17
		Client Sample ID.:				TSP17-08G
		Sample Location:				TSP17
		Sample Type:				SOIL
		Top Depth (m):				0.00
		Bottom Depth (m):				1.70
		Date Sampled:				06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Naphthalene		M	2800	mg/kg	0.10	0.27
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	1.1
Anthracene		M	2800	mg/kg	0.10	0.43
Fluoranthene		M	2800	mg/kg	0.10	3.0
Pyrene		M	2800	mg/kg	0.10	3.0
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	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.72
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1
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*; 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

Test Results

Client/client ref: Sanctus

Site ref: Ardrossan

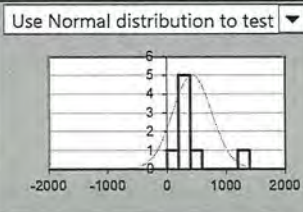
Date: 26-Mar-2025

Project ref: S3240

Data description: TSP17, Round F review

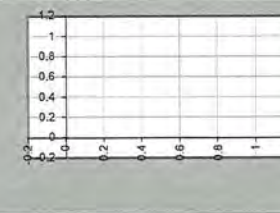
User details: JRA

Dataset	Max THP
Sample mean, $\bar{x}$	435
Sample standard deviation, s	328.55
Sample size, n	8
Critical concentration, Cc	1000



Outliers & non-detects

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

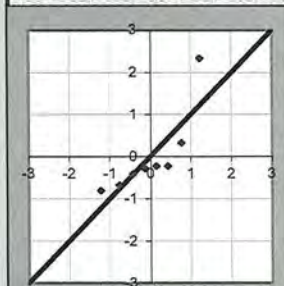


Normality test

Significance level 5%

Non-normal distribution

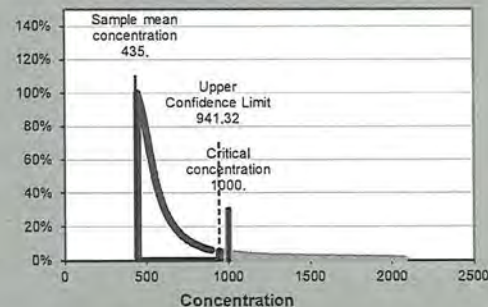
Use: Auto: Chebychev



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:

96%

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 016 – TSP18**Stockpile ID**

Stockpile ID: TSP18

Material Volume:

467 m³

Validation Samples Included per Round

5 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: 25-05322 – 25/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06184 04/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08204 – 18/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Date: 25/02/2025

Report Number: 25-05322

Sample ID (Sample Names): TSP18-01E → TSP18-05E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 346 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: 25-06184

Sample ID (Sample Names): TSP18-01F → TSP18-05F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 282 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: 25-08204

Report Date: 20/03/2025

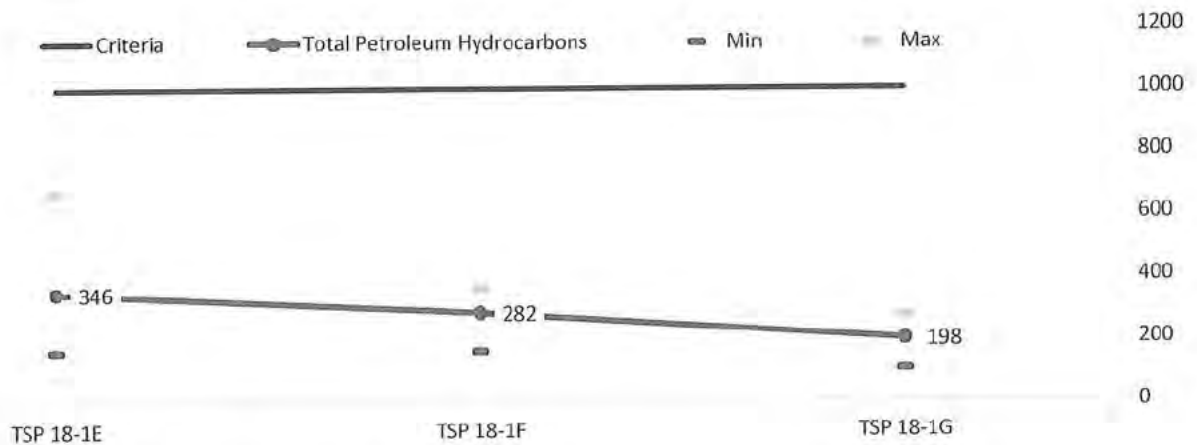
Sample ID (Sample Names): TSP18-01G → TSP18-05G

Report ID (Lab): Eurofins

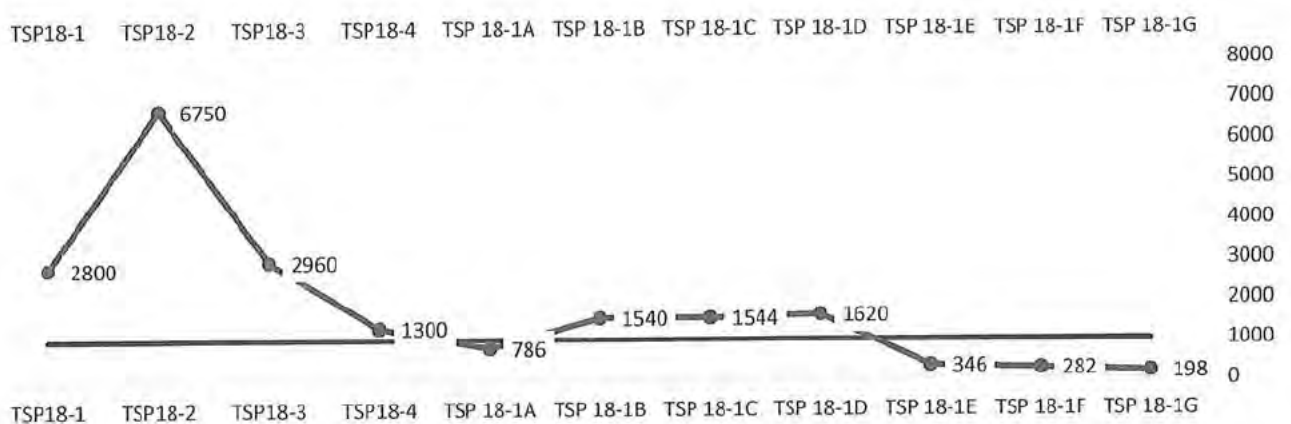
Comments:

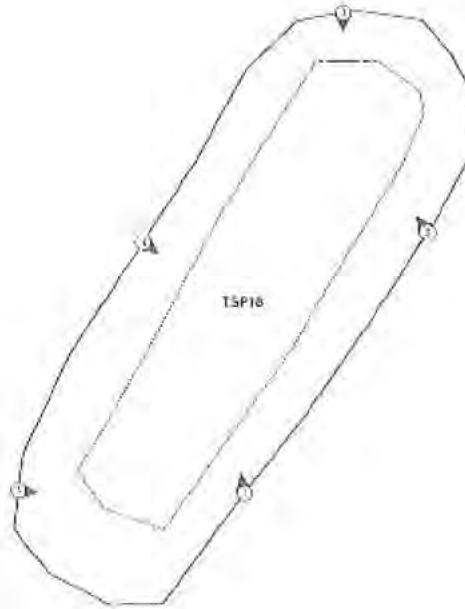
Test Results: PASS / FAIL

Average total TPH = 198 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:****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 92.93% when compared to the material's initial total TPH level (2,800 mg/kg (26th September 2024), compared to the final round's average of 198 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 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: [REDACTED]
POSITION: Senior Environmental Engineer
DATE: 27/03/2024
SIGNED:

[REDACTED]
Senior Environmental Engineer

Record of reuse

For Sanctus Use Only:

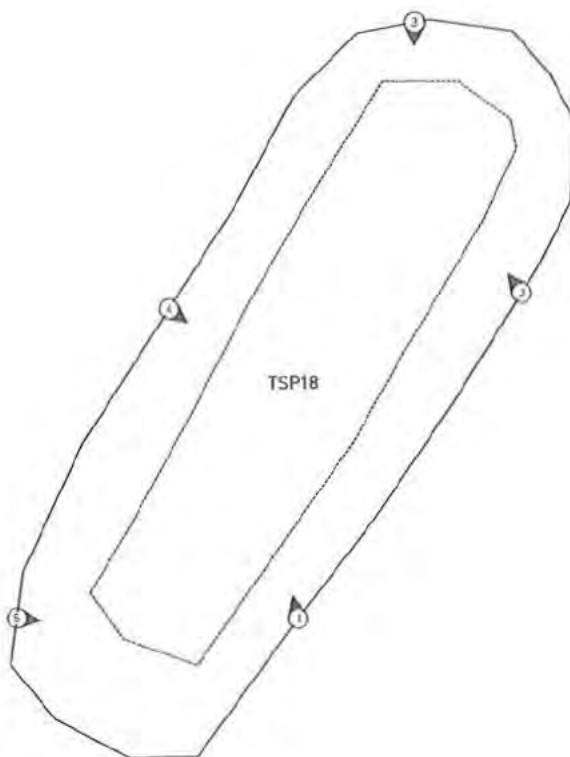
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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



Scale: 1:12,500

Drawing Notes:
Based on client supplied DWG -
RDROSSAN 2D produced by Aird Group.
3/03/2020. 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 18 Sample Location Plan

Contract No:
S3240

Drawn By:
JH

Drawing No:
03240/114

QC Check By:
ARW

Scale @ A3:
1:200 / 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 C16	Aromatic TPH >C12-C21	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	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		
TSP18-01E	12/02/2025	440	< 0.05	< 0.10	< 0.05	< 2.0	85	140	110	320	< 0.05	< 0.05	< 0.05	< 1.0	9	34	49	91	
TSP18-02E	12/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	34	89	72	200	< 0.05	< 0.05	< 0.05	< 1.0	5	21	36	62	
TSP18-03E	12/02/2025	670	< 0.05	< 0.10	< 0.05	< 2.0	89	210	180	470	< 0.05	< 0.05	< 0.05	< 1.0	6	49	91	150	
TSP18-04E	12/02/2025	160	< 0.05	< 0.10	< 0.05	< 2.0	22	51	44	120	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	7	21	28	
TSP18-05E	12/02/2025	180	< 0.05	< 0.10	< 0.05	< 2.0	29	52	44	120	< 0.05	< 0.05	< 0.05	< 1.0	2	16	38	55	
TSP18-01F	19/02/2025	360	< 0.05	< 0.10	< 0.05	< 2.0	23	90	81	190	< 0.05	< 0.05	< 0.05	< 1.0	13	69	60	140	
TSP18-02F	19/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	25	65	63	150	< 0.05	< 0.05	< 0.05	< 1.0	12	65	42	120	
TSP18-03F	19/02/2025	160	< 0.05	< 0.10	< 0.05	< 2.0	10	42	42	95	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	35	25	61	
TSP18-04F	19/02/2025	330	< 0.05	< 0.10	< 0.05	< 2.0	31	86	81	200	< 0.05	< 0.05	< 0.05	< 1.0	16	55	43	110	
TSP18-05F	19/02/2025	280	< 0.05	< 0.10	< 0.05	< 2.0	19	57	63	140	< 0.05	< 0.05	< 0.05	< 1.0	8	60	44	110	
TSP18-01G	06/03/2025	210	< 0.05	< 0.10	< 0.05	< 2.0	9	38	28	76	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	37	58	95	
TSP18-02G	06/03/2025	100	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	23	20	44	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	18	19	37	
TSP18-03G	06/03/2025	170	< 0.05	< 0.10	< 0.05	< 2.0	8	56	29	93	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	20	40	61	
TSP18-04G	06/03/2025	240	< 0.05	< 0.10	< 0.05	< 2.0	13	72	54	140	< 0.05	< 0.05	< 0.05	< 1.0	1	18	57	77	
TSP18-05G	06/03/2025	270	< 0.05	< 0.10	< 0.05	< 2.0	15	71	50	140	< 0.05	< 0.05	< 0.05	< 1.0	3	52	52	110	



Final Report

Report No.: 25-05322-1
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
Order No.: S3240
No. of Samples: 5
Turnaround (Wkdays): 5
Date Approved: 25-Feb-2025

Date Received: 14-Feb-2025
Date Instructed: 14-Feb-2025
Results Due: 20-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.:	25-05322	25-05322	25-05322	25-05322	25-05322
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932907	1932908	1932909	1932910	1932911
Order No.: S3240		Client Sample Ref.:	TSP18	TSP18	TSP18	TSP18	TSP18
		Client Sample ID.:	TSP18-01E	TSP18-02E	TSP18-03E	TSP18-04E	TSP18-05E
		Sample Location:	TSP18	TSP18	TSP18	TSP18	TSP18
		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	1.85	1.80	1.80	1.85
		Date Sampled:	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	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	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	65	34
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	140	89
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	110	72
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	320	200
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	330	210
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	9.0	4.6
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	21
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	49	36
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	13
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	91	62
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	75
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	410	260
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	440	280
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	0.15	0.14

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05322	25-05322	25-05322	25-05322	25-05322
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932907	1932908	1932909	1932910	1932911
Order No.: S3240		Client Sample Ref.:				TSP18	TSP18	TSP18	TSP18	TSP18
		Client Sample ID.:				TSP18-01E	TSP18-02E	TSP18-03E	TSP18-04E	TSP18-05E
		Sample Location:				TSP18	TSP18	TSP18	TSP18	TSP18
		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	1.85	1.80	1.80	1.85
		Date Sampled:				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	0.27	1.7	0.79	0.39	0.51
Anthracene		M	2800	mg/kg	0.10	0.19	0.52	1.1	0.18	0.18
Fluoranthene		M	2800	mg/kg	0.10	0.92	4.6	1.9	1.1	1.2
Pyrene		M	2800	mg/kg	0.10	0.85	3.8	1.6	1.0	1.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.51	2.1	0.87	0.53	0.60
Chrysene		M	2800	mg/kg	0.10	0.55	2.2	0.88	0.54	0.69
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.83	3.3	1.3	0.89	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.28	1.1	0.45	0.30	0.35
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.77	2.8	1.1	0.76	0.87
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.53	1.9	0.79	0.62	0.68
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.34	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.57	1.7	0.80	0.63	0.71
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.4	26	12	6.9	8.0

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_ASB

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.: 25-06184-1
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: 5

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.:	25-06184	25-06184	25-06184	25-06184	25-06184
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936925	1936926	1936927	1936928	1936929
Order No.: S3240		Client Sample Ref.:	TSP18	TSP18	TSP18	TSP18	TSP18
		Client Sample ID.:	TSP18-01F	TSP18-02F	TSP18-03F	TSP18-04F	TSP18-05F
		Sample Location:	TSP18	TSP18	TSP18	TSP18	TSP18
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.75	1.85	1.80	1.80	1.85
		Date Sampled:	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
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and brick	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	23	19
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	90	57
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	81	63
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	190	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	190	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	13	8.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	69	60
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	60	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	28	26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	170	140
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	340	250
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	360	280
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	0.20

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06184	25-06184	25-06184	25-06184	25-06184
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936925	1936926	1936927	1936928	1936929
Order No.: S3240		Client Sample Ref.:	TSP18	TSP18	TSP18	TSP18	TSP18
		Client Sample ID.:	TSP18-01F	TSP18-02F	TSP18-03F	TSP18-04F	TSP18-05F
		Sample Location:	TSP18	TSP18	TSP18	TSP18	TSP18
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.75	1.85	1.80	1.80	1.85
		Date Sampled:	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	< 0.10
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	0.68	1.3
Anthracene		M	2800	mg/kg	0.10	0.25	0.50
Fluoranthene		M	2800	mg/kg	0.10	1.9	3.8
Pyrene		M	2800	mg/kg	0.10	1.8	3.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.94	1.8
Chrysene		M	2800	mg/kg	0.10	0.98	1.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.6	2.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.53	0.93
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	2.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.98	1.6
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	0.28
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	12	21

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

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N	Unaccredited
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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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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_ASB

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.: 25-08204-1
Initial Date of Issue: 20-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: 5

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 20-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.: 25-08204 25-08204 25-08204 25-08204 25-08204								
Quotation No.: Q25-37100		Chemtest Sample ID.: 1944797 1944798 1944799 1944800 1944801								
Order No.: S3240		Client Sample Ref.: TSP18 TSP18 TSP18 TSP18 TSP18								
		Client Sample ID.: TSP18-01G TSP18-02G TSP18-03G TSP18-04G TSP18-05G								
		Sample Location: TSP18 TSP18 TSP18 TSP18 TSP18								
		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 1.85 1.80 1.60 1.85								
		Date Sampled: 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	15	16	16	15
Soil Colour		N	2040		N/A	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
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	8.9	< 1.0	8.2	13	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	39	23	56	72	71
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	28	20	29	54	50
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	11	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	76	44	93	140	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	76	55	93	140	140
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	< 1.0	< 1.0	< 1.0	1.2	3.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	37	18	20	18	52
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	19	40	57	52
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	38	7.9	11	22	20
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	95	37	61	77	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	130	45	72	99	130
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	170	80	150	220	240
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	210	100	170	240	270
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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-08204	25-08204	25-08204	25-08204	25-08204
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944797	1944798	1944799	1944800	1944801
Order No.: S3240		Client Sample Ref.:	TSP18	TSP18	TSP18	TSP18	TSP18
		Client Sample ID.:	TSP18-01G	TSP18-02G	TSP18-03G	TSP18-04G	TSP18-05G
		Sample Location:	TSP18	TSP18	TSP18	TSP18	TSP18
		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	1.85	1.80	1.60	1.85
		Date Sampled:	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	0.32	0.21
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	0.61	0.61
Anthracene		M	2800	mg/kg	0.10	0.28	0.28
Fluoranthene		M	2800	mg/kg	0.10	1.6	2.0
Pyrene		M	2800	mg/kg	0.10	1.4	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.86	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.71	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.50	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.96	< 0.10
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	0.85	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	4.8

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	

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NEW_ASB

DURHAM

Sample Deviation Codes

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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

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Charges may apply to extended sample storage.

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

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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 017 – TSP19**Stockpile ID**

Stockpile ID: TSP18

Material Volume:

836 m³

Validation Samples Included per Round

9 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: 25-05324 – 25/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06185 17/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08205– 26/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Date: 25/02/2025

Report Number: 25-05324

Sample ID (Sample Names): TSP19-01D → TSP19-09D

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 423 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: 17/03/2025

Report Number: 25-06185

Sample ID (Sample Names): TSP19-01E → TSP19-09E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Average total TPH = 136 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: 25-08205

Report Date: 26/03/2025

Sample ID (Sample Names): TSP19-01F → TSP19-09F

Report ID (Lab): Eurofins

Comments:

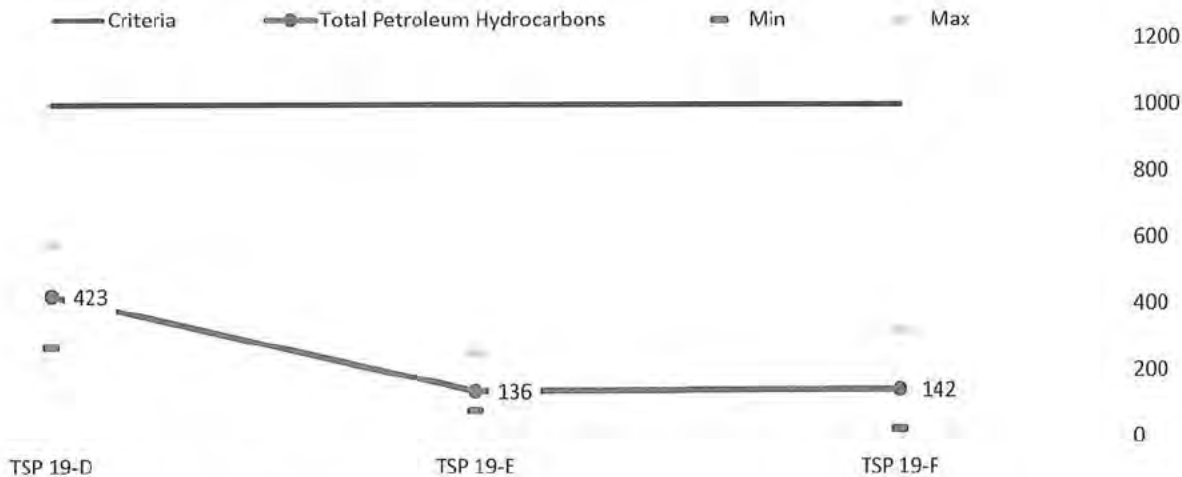
Test Results: PASS / FAIL

Average total TPH = 142 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:

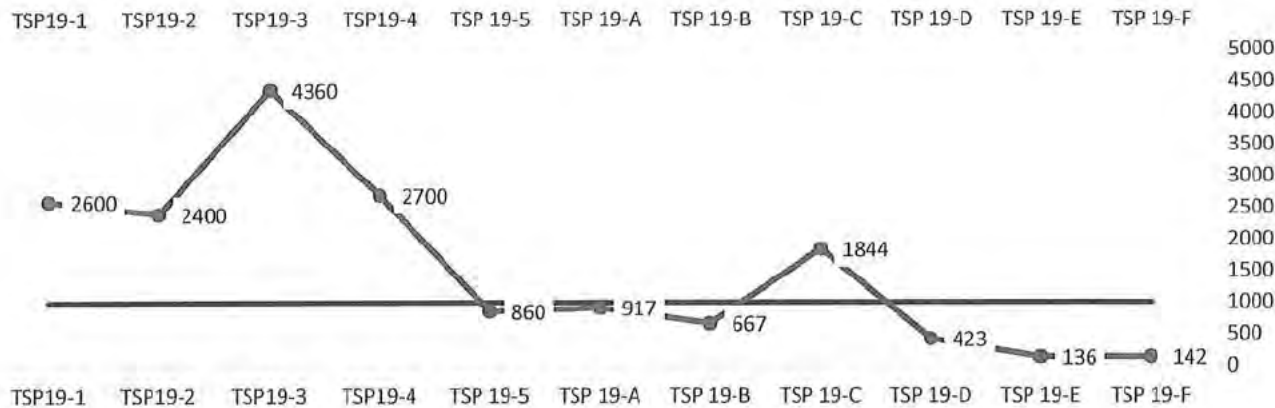
Min & Max Soil Values for Total Petroleum Hydrocarbons

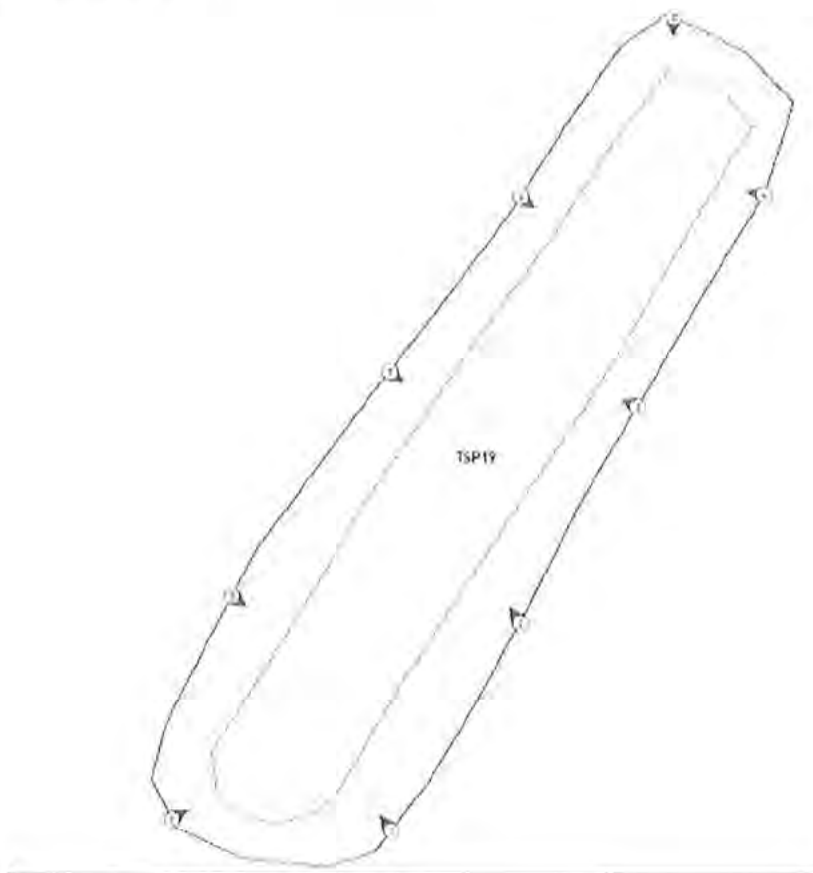


Additional Trendline Data – long term review:

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 94.54% when compared to the material's initial total TPH level (2,600 mg/kg (26th September 2024), compared to the final round's average of 142 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.

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

For Sanctus Use Only:

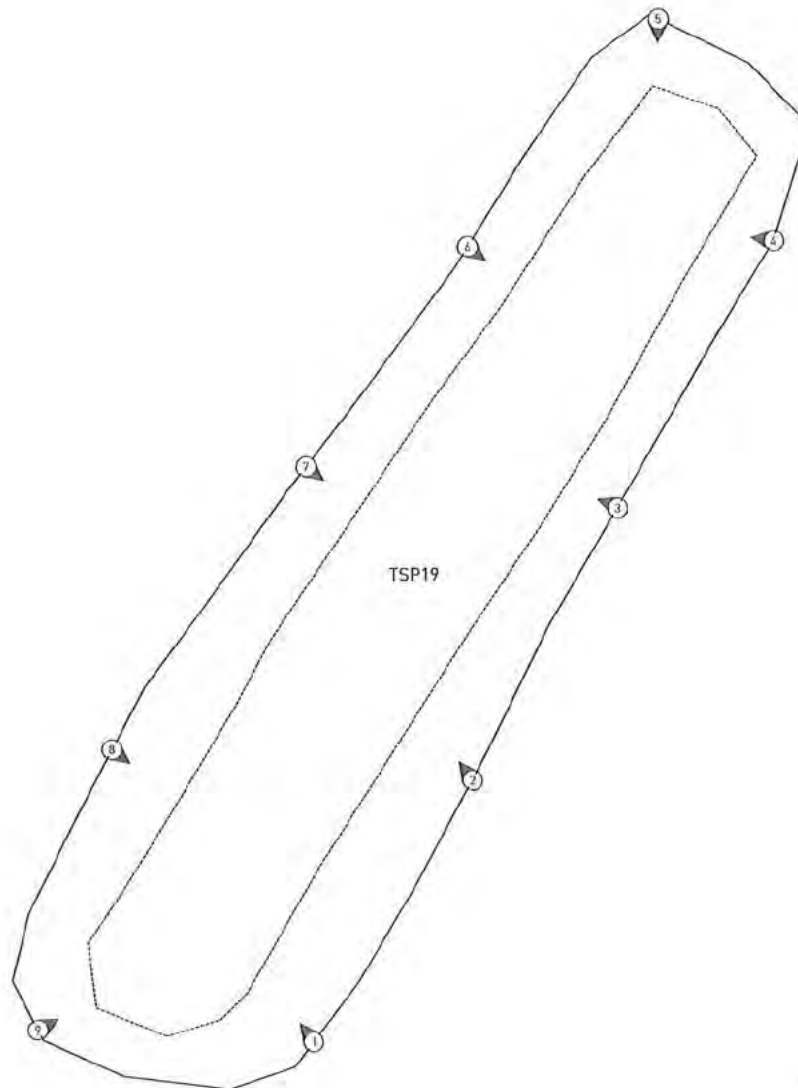
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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



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	11/03/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 19 Sample Location Plan

Contract No:
53240

Drawing No:
D3240/115

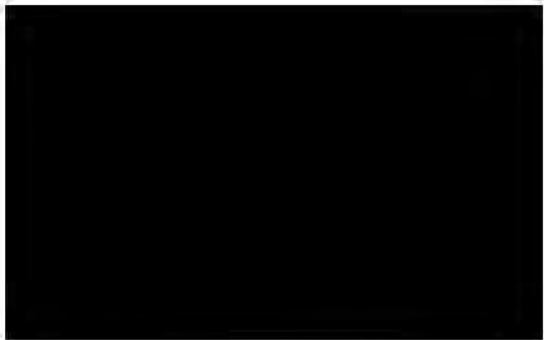
Scale @ A3:
1:200 / See Inset

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 >C5-C35	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 >C5-C35
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			140	290	7.34	48.3	173.47	540	1000	
TSP19-01D	12/02/2025	410	< 0.05	< 0.10	< 0.05	< 2.0	50	130	100	280	< 0.05	< 0.05	< 0.05	< 1.0	6	30	56	93
TSP19-02D	12/02/2025	580	< 0.05	< 0.10	< 0.05	2	66	170	120	360	< 0.05	< 0.05	< 0.05	< 1.0	4	52	86	140
TSP19-03D	12/02/2025	480	< 0.05	< 0.10	< 0.05	< 2.0	57	140	120	310	< 0.05	< 0.05	< 0.05	< 1.0	6	39	60	100
TSP19-04D	12/02/2025	350	< 0.05	< 0.10	< 0.05	< 2.0	41	98	85	220	< 0.05	< 0.05	< 0.05	< 1.0	6	27	52	86
TSP19-05D	12/02/2025	580	< 0.05	< 0.10	< 0.05	3	67	170	150	390	< 0.05	< 0.05	< 0.05	< 1.0	7	41	82	130
TSP19-06D	12/02/2025	380	< 0.05	< 0.10	< 0.05	< 2.0	36	120	93	250	< 0.05	< 0.05	< 0.05	< 1.0	4	26	50	90
TSP19-07D	12/02/2025	400	< 0.05	< 0.10	< 0.05	< 2.0	22	57	65	150	< 0.05	< 0.05	< 0.05	< 1.0	3	24	120	150
TSP19-08D	12/02/2025	270	< 0.05	< 0.10	< 0.05	< 2.0	38	83	56	180	< 0.05	< 0.05	< 0.05	< 1.0	8	25	32	65
TSP19-09D	12/02/2025	380	< 0.05	< 0.10	< 0.05	< 2.0	55	120	85	260	< 0.05	< 0.05	< 0.05	< 1.0	7	30	54	91
TSP19-01E	19/02/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	7	41	40	88	< 0.05	< 0.05	< 0.05	< 1.0	1	28	41	70
TSP19-02E	19/02/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	8	32	28	68	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	28	15	44
TSP19-03E	19/02/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	7	24	11	41	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	27	29	57
TSP19-04E	19/02/2025	78	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	28	16	43	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	19	13	32
TSP19-05E	19/02/2025	120	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	34	21	55	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	24	28	53
TSP19-06E	19/02/2025	100	< 0.05	< 0.10	< 0.05	< 2.0	7	39	16	63	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	22	15	38
TSP19-07E	19/02/2025	190	< 0.05	< 0.10	< 0.05	< 2.0	8	46	43	97	< 0.05	< 0.05	< 0.05	< 1.0	2	25	37	65
TSP19-08E	19/02/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	10	57	44	110	< 0.05	< 0.05	< 0.05	< 1.0	1	42	58	100
TSP19-09E	19/02/2025	80	< 0.05	< 0.10	< 0.05	< 2.0	2	32	9	43	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	14	30
TSP19-01F	06/03/2025	110	< 0.05	< 0.10	< 0.05	< 2.0	5	34	19	59	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	28	21	47
TSP19-02F	06/03/2025	320	< 0.05	< 0.10	< 0.05	< 2.0	18	95	59	170	< 0.05	< 0.05	< 0.05	< 1.0	6	47	82	120
TSP19-03F	06/03/2025	23	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	11	5	17	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	4	< 2.0	6
TSP19-04F	06/03/2025	42	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	18	10	28	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	10	4	14
TSP19-05F	06/03/2025	41	< 0.05	< 0.10	< 0.05	8	8	13	< 3.0	29	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	5	5	10
TSP19-06F	06/03/2025	250	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	25	10	35	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	120	94	210
TSP19-07F	06/03/2025	240	< 0.05	< 0.10	< 0.05	< 2.0	26	72	42	140	< 0.05	< 0.05	< 0.05	< 1.0	8	35	46	88
TSP19-08F	06/03/2025	100	< 0.05	< 0.10	< 0.05	< 2.0	2	32	25	59	< 0.05	< 0.05	< 0.05	< 1.0	1	12	24	37
TSP19-09F	06/03/2025	150	< 0.05	< 0.10	< 0.05	< 2.0	7	42	22	71	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	31	44	75



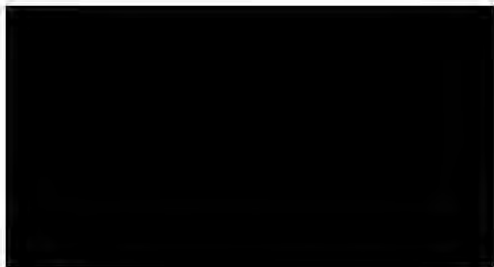
Final Report

Report No.: 25-05324-1
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: 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.:	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932912	1932913	1932914	1932915	1932916	1932917	1932918	1932919		
Order No.: S3240		Client Sample Ref.:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Client Sample ID.:	TSP19-01D	TSP19-02D	TSP19-03D	TSP19-04D	TSP19-05D	TSP19-06D	TSP19-07D	TSP19-08D		
		Sample Location:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		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	1.65	1.70	1.85	1.85	1.65	1.70	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	15	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	2.3	< 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	50	66	57	41	67	36	22
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	130	170	140	98	170	120	57
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100	120	120	85	150	93	65
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	12	< 10	12	14	14	11	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	280	360	310	220	390	250	150
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	300	360	330	240	400	260	150
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	6.3	4.4	5.6	6.4	7.2	3.8	2.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	30	52	39	27	41	26	24
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	56	86	60	52	82	60	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	24	74	32	24	52	32	100
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	93	140	100	86	130	90	150
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	220	140	110	180	120	250
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	380	500	420	310	520	340	300
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	410	580	460	350	580	380	400
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	< 0.10	0.18	0.15	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324	25-05324
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932912	1932913	1932914	1932915	1932916	1932917	1932918	1932919			
Order No.: S3240		Client Sample Ref.:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Client Sample ID.:	TSP19-01D	TSP19-02D	TSP19-03D	TSP19-04D	TSP19-05D	TSP19-06D	TSP19-07D	TSP19-08D			
		Sample Location:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Sample Type:	SOIL	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	0.00
		Bottom Depth (m):	1.75	1.65	1.70	1.85	1.85	1.65	1.70	1.65	1.70	1.65	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	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	0.31	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.90	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	1.3	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	11	0.44	0.37	1.4	0.84	0.36	0.24	0.58
Anthracene		M	2800	mg/kg	0.10	11	0.23	0.15	0.43	0.28	0.15	0.13	0.22
Fluoranthene		M	2800	mg/kg	0.10	16	1.3	1.0	3.5	1.5	1.1	0.70	1.3
Pyrene		M	2800	mg/kg	0.10	12	1.1	0.92	2.9	1.4	1.0	0.72	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	5.9	0.61	0.50	1.5	0.63	0.51	0.38	0.65
Chrysene		M	2800	mg/kg	0.10	7.2	0.61	0.53	1.6	0.74	0.37	0.38	0.59
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	6.5	1.1	0.96	2.4	1.3	0.80	0.62	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.3	0.39	0.30	0.78	0.41	0.30	0.13	0.19
Benzo[a]pyrene		M	2800	mg/kg	0.10	5.6	0.85	0.73	2.1	0.94	0.62	0.64	0.87
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	3.4	0.75	0.70	1.5	0.85	0.50	0.59	0.68
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.64	< 0.10	< 0.10	0.15	< 0.10	< 0.10	0.13	0.13
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	3.4	0.70	0.68	1.7	0.91	0.63	0.69	0.87
Total Of 16 PAH's		N	2800	mg/kg	2.0	88	8.1	7.0	21	9.8	6.3	5.4	8.5

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05324
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932920
Order No.: S3240		Client Sample Ref.:				TSP19
		Client Sample ID.:				TSP19-09D
		Sample Location:				TSP19
		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	14
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	55
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	85
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	260
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	260
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	7.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	30
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	27
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	91
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	350
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	380
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.:				25-05324
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932920
Order No.: S3240		Client Sample Ref.:				TSP19
		Client Sample ID.:				TSP19-09D
		Sample Location:				TSP19
		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	0.22
Anthracene		M	2800	mg/kg	0.10	0.13
Fluoranthene		M	2800	mg/kg	0.10	0.22
Pyrene		M	2800	mg/kg	0.10	0.18
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0

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_ASB

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.: 25-06185-1
Initial Date of Issue: 17-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: 9
Turnaround (Wkdays): 5
Date Approved: 17-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.:	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936930	1936931	1936932	1936933	1936934	1936935	1936936	1936937		
Order No.: S3240		Client Sample Ref.:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Client Sample ID.:	TSP19-01E	TSP19-02E	TSP19-03E	TSP19-04E	TSP19-05E	TSP19-06E	TSP19-07E	TSP19-08E		
		Sample Location:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Bottom Depth (m):	1.75	1.65	1.70	1.65	1.65	1.65	1.70	1.65		
		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							
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 and brick	Stones and brick	Stones and brick	Stones and brick	Stones	Stones and brick	Stones, brick and Wood
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	7.0	7.9	6.7	< 1.0	< 1.0	7.1	8.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	41	32	24	28	34	39	46
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40	28	11	16	21	16	43
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	88	68	41	43	55	63	97
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	88	68	41	43	55	63	97
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	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	28	27	19	24	22	25
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	41	15	29	13	28	15	37
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	32	1.3	15	2.5	15	2.3	29
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	70	44	57	32	53	38	65
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	100	45	72	35	67	40	94
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	110	98	75	110	100	160
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	190	110	110	78	120	100	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
Naphthalene		M	2800	mg/kg	0.10	0.16	0.19	0.17	0.20	0.16	0.24	0.20

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185	25-06185
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936930	1936931	1936932	1936933	1936934	1936935	1936936	1936937
Order No.: S3240		Client Sample Ref.:				TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Client Sample ID.:				TSP19-01E	TSP19-02E	TSP19-03E	TSP19-04E	TSP19-05E	TSP19-06E	TSP19-07E	TSP19-08E
		Sample Location:				TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.75	1.65	1.70	1.65	1.65	1.65	1.70	1.65
		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	0.13	0.15	0.16	< 0.10	< 0.10	0.14	0.22	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.17	0.31	0.26	< 0.10	< 0.10	0.17	0.21	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.13	0.23	0.18	< 0.10	< 0.10	0.17	0.22	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70	1.5	1.5	0.93	0.55	0.97	1.4	0.93
Anthracene		M	2800	mg/kg	0.10	0.28	0.83	0.50	0.44	0.22	0.45	0.42	0.34
Fluoranthene		M	2800	mg/kg	0.10	1.9	3.6	3.1	2.3	1.4	2.3	3.4	2.4
Pyrene		M	2800	mg/kg	0.10	1.6	3.1	2.8	2.1	1.3	2.2	2.8	2.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.98	1.5	1.5	1.2	0.71	1.2	1.5	1.1
Chrysene		M	2800	mg/kg	0.10	0.98	1.5	1.4	1.1	0.70	1.1	1.2	0.94
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.6	2.2	2.2	1.8	1.3	2.3	2.3	1.8
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.59	0.78	0.96	0.66	0.53	0.73	0.88	0.59
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	1.8	1.9	1.6	1.2	1.9	2.0	1.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	1.3	1.7	1.2	1.0	1.4	1.6	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.25	0.41	0.19	0.21	0.26	0.25	0.19
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.92	1.4	1.6	1.2	0.92	1.5	1.4	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	21	20	15	10	17	20	15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06185
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936938
Order No.: S3240		Client Sample Ref.:				TSP19
		Client Sample ID.:				TSP19-09E
		Sample Location:				TSP19
		Sample Type:				SOIL
		Bottom Depth (m):				1.65
		Date Sampled:				19-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 and brick
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	32
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	8.7
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	43
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	43
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	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	6.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	30
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	37
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	73
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	80
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.:				25-06185
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936938
Order No.: S3240		Client Sample Ref.:				TSP19
		Client Sample ID.:				TSP19-09E
		Sample Location:				TSP19
		Sample Type:				SOIL
		Bottom Depth (m):				1.65
		Date Sampled:				19-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	0.84
Anthracene		M	2800	mg/kg	0.10	0.28
Fluoranthene		M	2800	mg/kg	0.10	2.3
Pyrene		M	2800	mg/kg	0.10	2.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2
Chrysene		M	2800	mg/kg	0.10	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.60
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5
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	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	14

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_ASB

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.: 25-08205-1

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: 9

Turnaround (Wkdays): 5

Results Due: 17-Mar-2025

Date Approved: 26-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.:	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944802	1944803	1944804	1944805	1944806	1944807	1944808		
Order No.: S3240		Client Sample Ref.:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19
		Client Sample ID.:	TSP19-01F	TSP19-02F	TSP19-03F	TSP19-04F	TSP19-05F	TSP19-06F	TSP19-07F		
		Sample Location:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	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):	1.75	1.65	1.70	1.65	1.65	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	16	16	16	16	19
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	5.8	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.8	18	< 1.0	8.2	< 1.0	26
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	34	95	11	18	13	25
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	19	59	5.2	9.5	< 3.0	9.8
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	59	170	17	28	29	35
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	59	170	17	28	29	35
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	< 1.0	6.1	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	47	4.2	10	5.2	120
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21	62	< 2.0	4.0	4.5	94
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	36	< 1.0	< 1.0	2.0	1.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	47	120	6.0	14	9.7	210
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	47	150	< 10	14	12	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
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	110	290	23	42	39	240
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	110	320	23	42	41	250
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.:	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205	25-08205
Quotation No.: Q25-37100		Chemtest Sample ID.:	1944802	1944803	1944804	1944805	1944806	1944807	1944808	
Order No.: S3240		Client Sample Ref.:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	
		Client Sample ID.:	TSP19-01F	TSP19-02F	TSP19-03F	TSP19-04F	TSP19-05F	TSP19-06F	TSP19-07F	
		Sample Location:	TSP19	TSP19	TSP19	TSP19	TSP19	TSP19	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):	1.75	1.65	1.70	1.65	1.65	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	0.22	< 0.10	0.20	0.28	0.24
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.38
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.33
Phenanthrene		M	2800	mg/kg	0.10	1.0	3.1	0.49	2.9	1.3
Anthracene		M	2800	mg/kg	0.10	0.40	1.2	0.17	1.0	0.57
Fluoranthene		M	2800	mg/kg	0.10	2.3	5.8	1.2	6.0	3.1
Pyrene		M	2800	mg/kg	0.10	2.1	4.5	1.2	4.8	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	2.2	0.80	2.3	1.4
Chrysene		M	2800	mg/kg	0.10	0.94	1.9	0.73	2.1	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	3.1	< 0.10	3.0	1.8
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.67	1.2	< 0.10	1.0	0.63
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	2.9	< 0.10	2.8	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.99	2.5	< 0.10	1.7	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.45	0.27
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.88	1.6	< 0.10	1.7	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	30	4.8	30	18

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08205	25-08205
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944809	1944810
Order No.: S3240		Client Sample Ref.:				TSP19	TSP19
		Client Sample ID.:				TSP19-08F	TSP19-09F
		Sample Location:				TSP19	TSP19
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.65	1.65
		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	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	2.3	7.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	32	42
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	25	22
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	59	71
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	59	71
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	1.2	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	12	31
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	4.3	6.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	37	75
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	42	82
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	96	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	100	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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-08205	25-08205
Quotation No.: Q25-37100		Chemtest Sample ID.:				1944809	1944810
Order No.: S3240		Client Sample Ref.:				TSP19	TSP19
		Client Sample ID.:				TSP19-08F	TSP19-09F
		Sample Location:				TSP19	TSP19
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.65	1.65
		Date Sampled:				06-Mar-2025	06-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.18	0.57
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	0.47	0.95
Anthracene		M	2800	mg/kg	0.10	0.23	0.37
Fluoranthene		M	2800	mg/kg	0.10	1.6	1.9
Pyrene		M	2800	mg/kg	0.10	1.4	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.77	0.95
Chrysene		M	2800	mg/kg	0.10	0.74	0.71
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.47	0.58
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.86	1.0
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	0.81	1.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	13

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_ASB

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 018 – TSP20

Stockpile ID

Stockpile ID: TSP20

Material Volume:

2,000 m³

Validation Samples Included per Round

20 No.

Tested Location: Treatment Area 02

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: 25-05321 – 05/03/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06186 – 7/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 06/03/2025	Report Number & Date: 25-08206 – 26/03/2025	Lab: Eurofins

Sampling Data

Passing Round 1

Report Date: 05/03/2025

Report Number: 25-05321

Sample ID (Sample Names): TSP20-01E → TSP20-20E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / ~~FAIL~~

Average total TPH = 400 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: 17/03/2025

Report Number: 25-06186

Sample ID (Sample Names): TSP20-01F → TSP20-20F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / ~~FAIL~~

Average total TPH = 239 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: 25-08206

Report Date: 26/03/2025

Sample ID (Sample Names): TSP20-01G → TSP20-20G

Report ID (Lab): Eurofins

Comments:

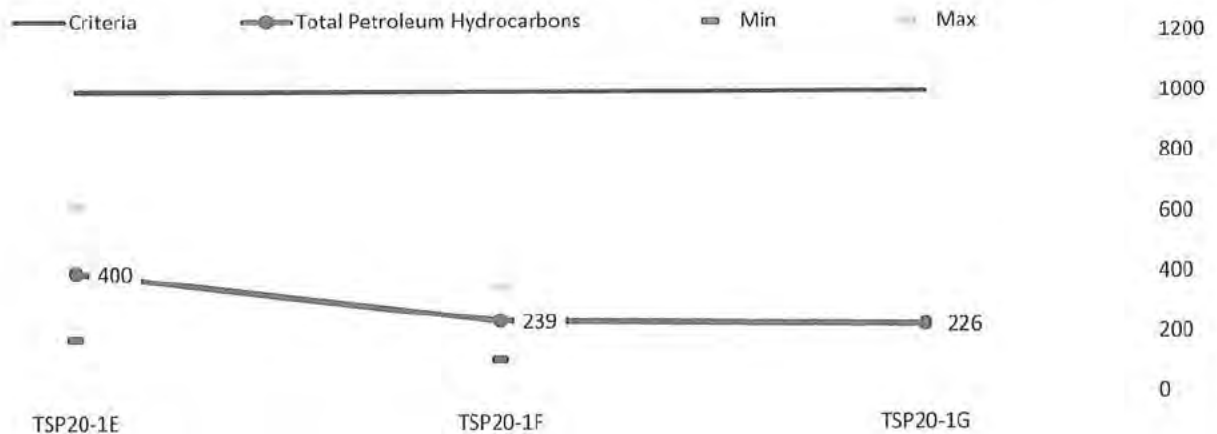
Test Results: PASS / ~~FAIL~~

Average total TPH = 226 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

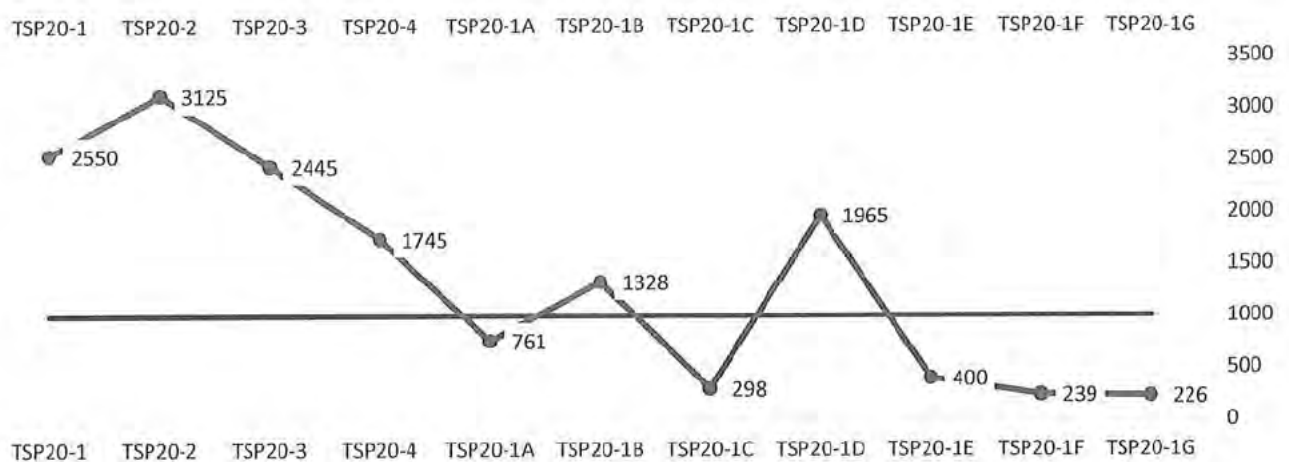
Data Trend for Total TPH levels:

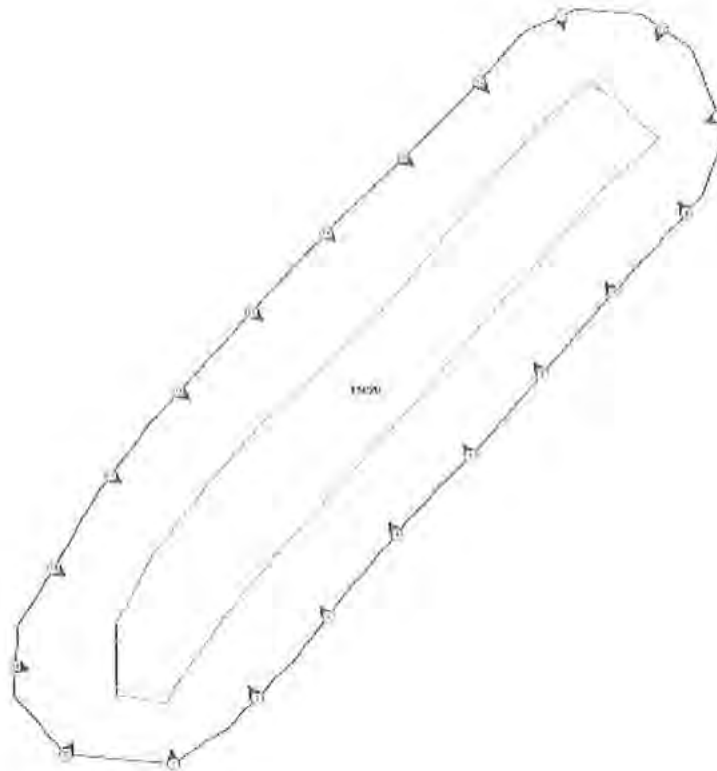
Min & Max Soil Values for Total Petroleum Hydrocarbons

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 91.14% when compared to the material's initial total TPH level (2,550 mg/kg (26th September 2024), compared to the final round's average of 226 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 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.

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

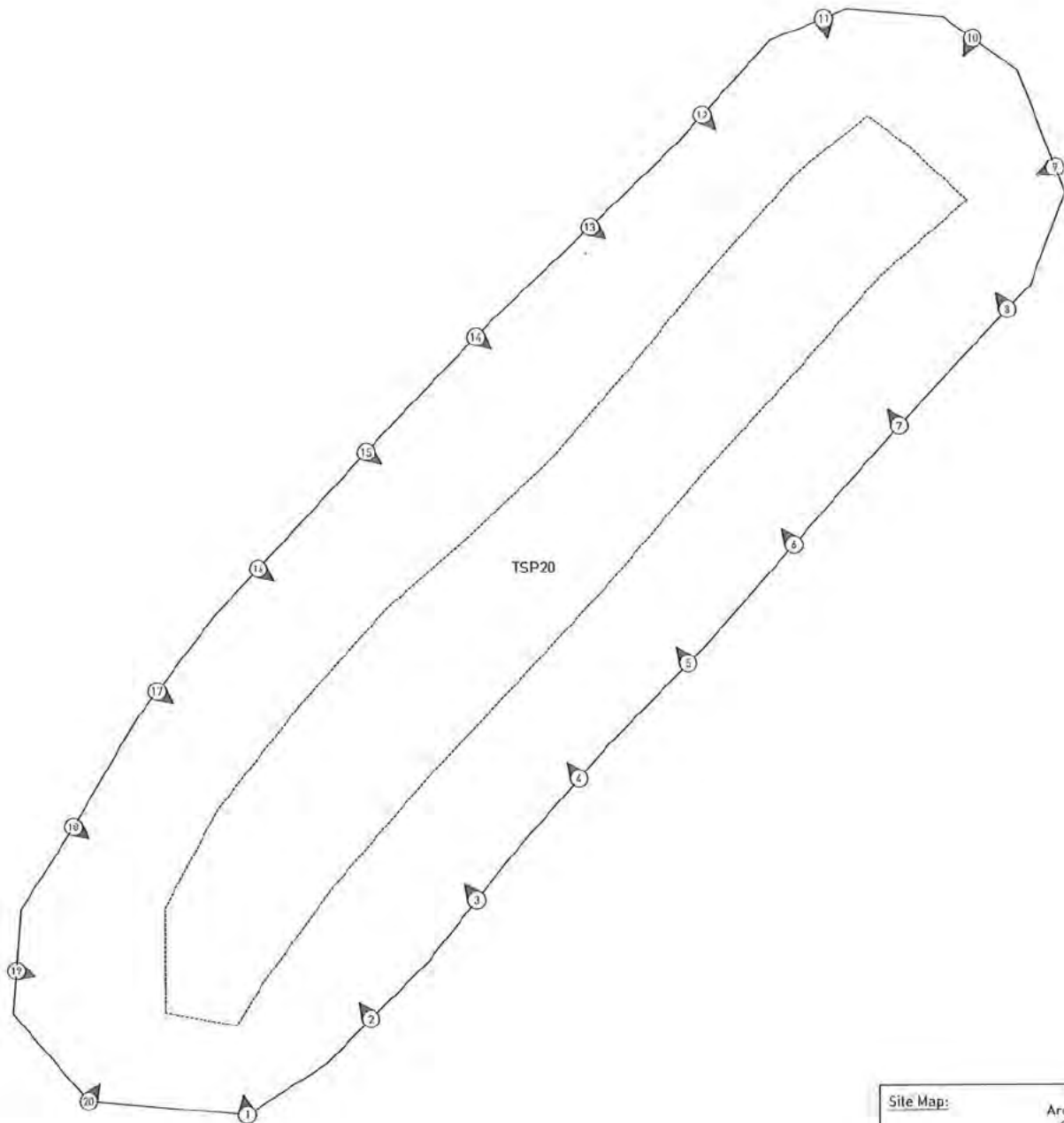
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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



0m 2m 4m 8m

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 20 Sample Location Plan

Contract No:
53240

Drawing No:
D3240/116

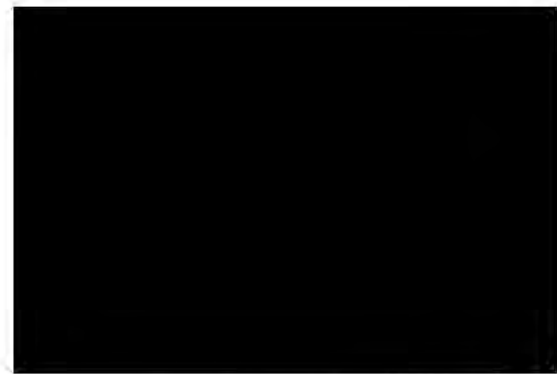
Scale & A3:
1:200 / See Inset

Drawn By:
JH

QC Check By:
ARW

Approved By:
ARW

1 of 1



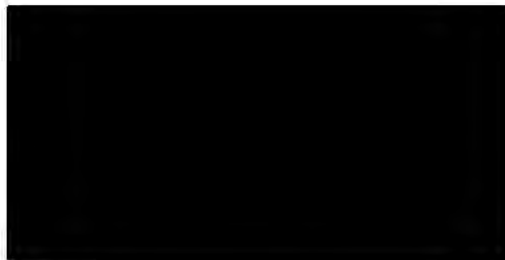
Final Report

Report No.: 25-05321-1
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: 14-Feb-2025

Order No.: S3240

Date Instructed: 14-Feb-2025

No. of Samples: 20

Turnaround (Wkdays): 5

Results Due: 20-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.:	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932921	1932922	1932923	1932924	1932925	1932926	1932927	1932928		
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-01E	TSP20-02E	TSP20-03E	TSP20-04E	TSP20-05E	TSP20-06E	TSP20-07E	TSP20-08E		
		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):	1.00	1.65	1.75	1.90	1.75	1.65	1.70	1.90		
		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	13	14	14	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	None	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	57	54	48	58	54	79	34
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	150	120	87	160	100	130	100
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	93	97	100	92	92	85	150
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	12	15	< 10	14	< 10	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	300	280	240	310	250	270	420
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	300	290	250	310	260	270	430
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	9.4	5.6	8.8	8.3	6.9	11	7.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	30	51	42	56	41	58	50
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	63	90	45	110	60	130	83
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	24	28	39	56	22	82	47
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100	150	96	170	110	200	140
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	130	180	130	230	130	280	190
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	410	420	330	480	360	470	560
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	430	460	390	540	390	550	620
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	< 0.10	0.20	< 0.10	< 0.10	0.17	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932921	1932922	1932923	1932924	1932925	1932926	1932927	1932928
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-01E	TSP20-02E	TSP20-03E	TSP20-04E	TSP20-05E	TSP20-06E	TSP20-07E	TSP20-08E
		Sample Location:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		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):				1.00	1.65	1.75	1.90	1.75	1.65	1.70	1.90
		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	0.23	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.47	0.35	0.46	1.1	0.30	3.9	0.29	0.61
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.21	0.16	0.57	< 0.10	1.4	< 0.10	0.54
Fluoranthene		M	2800	mg/kg	0.10	1.6	1.1	1.5	4.1	0.81	10	0.97	8.9
Pyrene		M	2800	mg/kg	0.10	1.5	0.97	1.3	3.8	0.75	8.0	0.92	8.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.63	0.55	0.64	3.5	< 0.10	4.2	0.49	5.1
Chrysene		M	2800	mg/kg	0.10	0.80	0.52	0.71	3.1	< 0.10	4.2	0.63	5.4
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.1	1.1	4.4	< 0.10	5.2	0.84	7.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.35	0.42	0.31	2.9	< 0.10	2.0	0.29	3.0
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.88	1.0	3.5	< 0.10	4.4	< 0.10	6.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.80	0.67	0.76	3.7	< 0.10	3.1	< 0.10	3.7
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.4	< 0.10	0.51	< 0.10	0.72
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.76	0.75	0.73	2.9	< 0.10	2.8	< 0.10	3.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.1	7.5	8.9	36	< 2.0	50	4.4	54

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932929	1932930	1932931	1932932	1932933	1932934	1932935	1932936	1932937	1932938
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-09E	TSP20-10E	TSP20-11E	TSP20-12E	TSP20-13E	TSP20-14E	TSP20-15E	TSP20-16E	TSP20-17E	TSP20-18E
		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	1.80	1.70	1.75	1.85	1.70	1.80	1.75	1.80	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	14	15	14	14	13	13	12
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	43	34	29	49	55	72	48
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	110	110	92	150	120	180	120
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	87	90	71	70	89	140	80
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	10	< 10	< 10	12	11	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	240	230	190	270	270	390	250
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	250	230	190	280	280	390	250
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	5.0	4.7	11	8.2	8.7	7.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	23	28	62	34	40	38
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	59	54	59	110	61	84	60
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	27	27	22	38	29	55	34
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	93	82	91	180	100	130	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	110	110	220	130	190	140
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	330	310	280	450	370	520	360
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	370	340	310	500	410	580	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
Naphthalene		M	2800	mg/kg	0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	0.17	0.19

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932929	1932930	1932931	1932932	1932933	1932934	1932935	1932936			
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-09E	TSP20-10E	TSP20-11E	TSP20-12E	TSP20-13E	TSP20-14E	TSP20-15E	TSP20-16E			
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	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	0.00
		Bottom Depth (m):	1.80	1.80	1.70	1.75	1.85	1.70	1.80	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	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	0.30	< 0.10	0.11
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	0.42	0.33	1.2	0.46	0.39	4.8	0.61	1.8
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.52	0.54	< 0.10	1.8	0.21	0.61
Fluoranthene		M	2800	mg/kg	0.10	1.0	1.2	5.2	1.5	1.0	12	1.5	3.7
Pyrene		M	2800	mg/kg	0.10	1.0	1.1	4.8	1.3	0.98	10	1.5	3.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.53	2.7	0.63	0.57	5.9	0.83	1.6
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.58	2.9	0.65	0.70	5.9	0.88	1.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.89	4.6	1.3	0.99	8.6	1.3	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.24	1.7	0.42	0.34	3.1	0.52	0.82
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	0.70	3.6	1.0	0.82	7.5	1.0	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	0.58	2.4	0.82	0.74	5.1	0.82	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.44	< 0.10	< 0.10	0.83	< 0.10	0.26
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	0.61	2.1	0.72	0.83	4.1	0.78	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.6	6.8	32	9.3	7.4	70	10	20

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932937	1932938	1932939	1932940
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-17E	TSP20-18E	TSP20-19E	TSP20-20E
		Sample Location:				TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.75	1.85	1.80	1.70
		Date Sampled:				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	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
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	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	41	50	18	19
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	120	120	50	53
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100	100	42	45
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	18	15	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	270	280	110	120
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	280	290	130	130
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	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	11	3.6	1.6	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	35	20	12
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	49	23	26
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	20	20	9.8	9.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	76	87	45	39
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	97	110	54	48
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	340	360	150	160
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	380	400	180	180
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
Naphthalene		M	2800	mg/kg	0.10	0.40	0.23	0.13	0.33

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05321	25-05321	25-05321	25-05321
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932937	1932938	1932939	1932940
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-17E	TSP20-18E	TSP20-19E	TSP20-20E
		Sample Location:	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.85	1.80	1.70
		Date Sampled:	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	0.13
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	0.49
Anthracene		M	2800	mg/kg	0.10	0.26
Fluoranthene		M	2800	mg/kg	0.10	1.1
Pyrene		M	2800	mg/kg	0.10	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.56
Chrysene		M	2800	mg/kg	0.10	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	4.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.94
Benzo[a]pyrene		M	2800	mg/kg	0.10	4.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	4.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.74
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	5.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	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*; Dibenzo[a,h]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_ASB

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

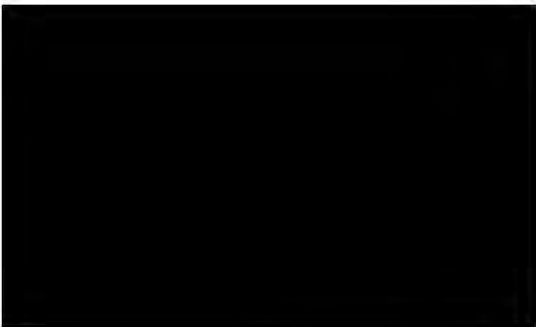
HWOL Acronym System

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.: 25-06186-1
Initial Date of Issue: 17-Mar-2025

Re-Issue Details:

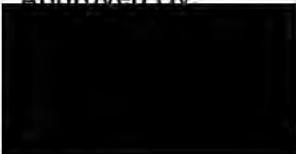
Client

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:	20		
Turnaround (Wkdays):	5	Results Due:	27-Feb-2025
Date Approved:	17-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.:	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936939	1936940	1936941	1936942	1936943	1936944	1936945	1936946	1936946	1936946
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-01F	TSP20-02F	TSP20-03F	TSP20-04F	TSP20-05F	TSP20-06F	TSP20-07F	TSP20-08F	TSP20-08F	TSP20-08F
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.80	1.85	1.75	1.80	1.75	1.65	1.70	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	13	14	14	15	15	14	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	3.1	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.0	15	4.5	13	10	28	17
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	41	56	43	43	35	67	32
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	24	59	20	49	36	57	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	11	11	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	65	130	68	110	81	160	80
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	65	130	68	120	92	160	80
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	< 1.0	3.3	< 1.0	3.1	4.0	9.6	5.4
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	42	22	59	58	71	68
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	32	44	19	39	40	73	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	10	2.2	17	16	44	18
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	56	89	41	100	100	150	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	70	99	44	120	120	200	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	120	220	110	210	180	310	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	230	110	240	210	350	210
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	0.20	0.19	0.18	0.14	0.17	0.15	0.21
Acenaphthylene		N	2800	mg/kg	0.10	0.11	0.16	0.14	< 0.10	0.12	< 0.10	0.15

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936939	1936940	1936941	1936942	1936943	1936944	1936945	1936946
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-01F	TSP20-02F	TSP20-03F	TSP20-04F	TSP20-05F	TSP20-06F	TSP20-07F	TSP20-08F
		Sample Location:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.80	1.85	1.75	1.80	1.75	1.65	1.70	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
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthene		M	2800	mg/kg	0.10	0.13	< 0.10	0.23	0.14	0.18	0.19	0.18	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	0.12	< 0.10	0.13	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.64	1.3	1.0	0.61	0.76	1.1	0.91	0.78
Anthracene		M	2800	mg/kg	0.10	0.26	0.43	0.36	0.21	0.33	0.31	0.35	0.29
Fluoranthene		M	2800	mg/kg	0.10	2.0	3.0	2.6	1.7	2.3	2.3	2.5	2.5
Pyrene		M	2800	mg/kg	0.10	1.8	2.4	2.2	1.6	1.9	2.1	2.2	2.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0	1.3	1.3	0.85	1.1	1.0	1.3	1.2
Chrysene		M	2800	mg/kg	0.10	0.86	1.2	1.3	0.69	1.2	1.0	1.2	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	2.1	2.1	1.5	2.0	1.6	2.4	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.59	0.75	0.73	0.46	0.66	0.63	0.80	0.76
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	1.5	1.9	1.1	1.7	1.2	2.0	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	1.1	1.4	0.95	1.4	0.90	1.5	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.19	0.22	0.26	0.16	0.21	0.16	0.28	0.18
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	1.1	1.3	0.99	1.5	0.98	1.4	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	17	17	11	16	14	18	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936947	1936948	1936949	1936950	1936951	1936952	1936953	1936954		
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-09F	TSP20-10F	TSP20-11F	TSP20-12F	TSP20-13F	TSP20-14F	TSP20-15F	TSP20-16F		
		Sample Location:	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.80	1.80	1.70	1.75	1.85	1.70	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	14	14	14	14	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	4.1	< 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	21	33	11	13	11	8.8	10
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	59	76	34	32	26	25	29
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	71	55	32	34	35	38	34
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	11	< 10	< 10	< 10	14	11	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	150	170	78	80	73	72	75
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	170	78	80	86	83	75
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	7.5	12	2.7	4.3	1.7	1.5	1.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	62	57	53	65	43	110	43
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	59	59	35	57	26	110	24
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	18	19	14	16	14	15	15
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	130	91	130	71	220	69
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	150	150	110	140	85	240	84
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	280	300	170	210	140	300	140
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	310	310	180	220	170	320	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	0.17	< 0.10	0.14	< 0.10	0.15	0.24	0.17
Acenaphthylene		N	2800	mg/kg	0.10	0.14	0.13	0.12	< 0.10	0.11	0.13	0.13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936947	1936948	1936949	1936950	1936951	1936952	1936953	1936954
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-09F	TSP20-10F	TSP20-11F	TSP20-12F	TSP20-13F	TSP20-14F	TSP20-15F	TSP20-16F
		Sample Location:				TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.80	1.80	1.70	1.75	1.85	1.70	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
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthene		M	2800	mg/kg	0.10	0.16	< 0.10	0.16	< 0.10	0.12	0.26	0.16	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.14	< 0.10	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.79	0.63	1.3	0.70	0.55	1.4	0.91	0.69
Anthracene		M	2800	mg/kg	0.10	0.33	0.30	0.45	0.26	0.21	0.40	0.32	0.26
Fluoranthene		M	2800	mg/kg	0.10	2.1	2.1	3.7	1.9	1.7	2.7	2.6	2.2
Pyrene		M	2800	mg/kg	0.10	1.9	2.0	3.1	1.7	1.5	2.3	2.3	1.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0	1.0	1.8	1.0	0.94	1.2	1.2	0.98
Chrysene		M	2800	mg/kg	0.10	0.89	0.79	1.7	0.84	0.77	0.97	1.3	0.90
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0	1.9	2.7	1.7	1.7	1.9	2.1	1.8
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.78	0.57	0.81	0.61	0.57	0.62	0.68	0.58
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.4	2.0	1.4	1.4	1.4	1.6	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5	1.2	1.6	1.1	1.0	1.1	1.3	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.37	0.15	0.22	0.17	0.16	0.17	0.21	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.6	1.1	1.5	1.1	1.1	1.2	1.4	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	13	21	13	12	16	16	14

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936955	1936956	1936957	1936958
Order No.: S3240		Client Sample Ref.:				TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:				TSP20-17F	TSP20-18F	TSP20-19F	TSP20-20F
		Sample Location:				TSP20	TSP20	TSP20	TSP20
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):				1.75	1.85	1.80	1.70
		Date Sampled:				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	28	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
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	3.4	3.2	< 2.0	2.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	23	15	40	20
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	52	36	74	44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	47	42	56	44
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	10	11	18	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	130	96	170	110
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	110	190	120
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	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	9.0	1.9	13	6.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	51	50	68	50
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	43	40	46	38
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	17	20	19	15
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100	92	130	94
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	110	150	110
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	190	300	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	260	220	330	230
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
Naphthalene		M	2800	mg/kg	0.10	0.17	< 0.10	0.13	0.17
Acenaphthylene		N	2800	mg/kg	0.10	0.13	< 0.10	0.12	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06186	25-06186	25-06186	25-06186
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936955	1936956	1936957	1936958
Order No.: S3240		Client Sample Ref.:	TSP20	TSP20	TSP20	TSP20
		Client Sample ID.:	TSP20-17F	TSP20-18F	TSP20-19F	TSP20-20F
		Sample Location:	TSP20	TSP20	TSP20	TSP20
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Bottom Depth (m):	1.75	1.85	1.80	1.70
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
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	1.0
Anthracene		M	2800	mg/kg	0.10	0.36
Fluoranthene		M	2800	mg/kg	0.10	2.8
Pyrene		M	2800	mg/kg	0.10	2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.4
Chrysene		M	2800	mg/kg	0.10	1.5
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.83
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.25
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	18

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_ASB

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