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CERTIFICATE OF ANALYSIS

Date of report Generation: 30 May 2021
Customer: Tetra Tech Europe
Sample Delivery Group (SDG): 210520-119
Your Reference: B025563
Location: Cambridge South East Transport - Phase 2
Report No: 600017

We received 8 samples on Thursday May 20, 2021 and 8 of these samples were scheduled for analysis which was completed on Sunday May 30, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

APPENDIX K2: ENVIRONMENTAL LABORATORY CERTIFICATES - WATER

Approved By:

Sonia McWhan
Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24309233	BH-OBC-06	EW03	7.00	18/05/2021
24309270	BH-OBC-12	EW05	18.50	18/05/2021
24309344	BH-OBC-15	EW08	27.00	18/05/2021
24309251	BH-OBC-04 (D)	EW04	16.00	18/05/2021
24309207	BH-OBC-07 (D)	EW02	24.50	18/05/2021
24309328	BH-OBC-11 (D)	EW07	15.50	18/05/2021
24309302	BH-OBC-07 (S)	EW06	6.50	18/05/2021
24309193	BH-TH-01	EW01	9.00	18/05/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type	24309233	24309270	24309344	24309251
						BH-OBC-06	BH-OBC-12	BH-OBC-15	BH-OBC-04 (D)
						EW03	EW05	EW08	EW04
						7.00	18.50	27.00	16.00
						500ml Plastic (ALE208)	500ml Plastic (ALE208)	500ml Plastic (ALE208)	500ml Plastic (ALE208)
						GW	GW	GW	GW
						H2SO4 (ALE244)	H2SO4 (ALE244)	H2SO4 (ALE244)	H2SO4 (ALE244)
						GW	GW	GW	GW
						HN03 Unfiltered (ALE204)	HN03 Unfiltered (ALE204)	HN03 Unfiltered (ALE204)	HN03 Unfiltered (ALE204)
						GW	GW	GW	GW
						NaOH (ALE245)	NaOH (ALE245)	NaOH (ALE245)	NaOH (ALE245)
						GW	GW	GW	GW
						Vial (ALE297)	Vial (ALE297)	Vial (ALE297)	Vial (ALE297)
						GW	GW	GW	GW
Alkalinity as CaCO3	All	NDPs: 0 Tests: 8				X			
Ammonium Low	All	NDPs: 0 Tests: 8					X		
Anions by Kone (w)	All	NDPs: 0 Tests: 8				X			
Chromium III	All	NDPs: 0 Tests: 8							
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 8							
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 8							
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 8							
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 8							
Fluoride	All	NDPs: 0 Tests: 8							
GRO by GC-FID (W)	All	NDPs: 0 Tests: 8							
Low Level Cyanide (W)	All	NDPs: 0 Tests: 8							
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 8							
Mercury Dissolved	All	NDPs: 0 Tests: 8							
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 8							
pH Value	All	NDPs: 0 Tests: 8							



Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend

X

Test

N

No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

Phenols by HPLC (W)

All

NDPs: 0
Tests: 8

Sulphur Dissolved by ICP-OES

All

NDPs: 0
Tests: 8

Total Dissolved Solids

All

NDPs: 0
Tests: 8

Total Metals by ICP-MS

All

NDPs: 0
Tests: 8

TPH CWG (W)

All

NDPs: 0
Tests: 8

VOC MS (W)

All

NDPs: 0
Tests: 8

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CERTIFICATE OF ANALYSIS

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend

	Test
	No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water Non-regulator
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

Alkalinity as CaCO3	All	NDPs: 0 Tests: 8	X						
Ammonium Low	All	NDPs: 0 Tests: 8		X					
Anions by Kone (w)	All	NDPs: 0 Tests: 8	X						
Chromium III	All	NDPs: 0 Tests: 8			X				
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 8			X				
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 8	X						
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 8	X						
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 8	X						
Fluoride	All	NDPs: 0 Tests: 8	X						
GRO by GC-FID (W)	All	NDPs: 0 Tests: 8	X						X
Low Level Cyanide (W)	All	NDPs: 0 Tests: 8						X	
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 8	X						
Mercury Dissolved	All	NDPs: 0 Tests: 8			X				
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 8	X						
pH Value	All	NDPs: 0 Tests: 8	X						

[illegible]

<div>Results Legend</div> <div><div>X</div>Test</div> <div><div>N</div>No Determination Possible</div> <div>Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other</div>	Lab Sample No(s)		24309302	24309193						
	Customer Sample Reference		BH-OBC-07 (S)	BH-TH-01						
	AGS Reference		EW06	EW01						
	Depth (m)		6.50	9.00						
	Container		Vial (ALE297)	Vial (ALE297)	NaOH (ALE245)	HNO3 Unfiltered (ALE204)	HNO3 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	
	Sample Type		GW	GW	GW	GW	GW	GW	GW	GW
Phenols by HPLC (W)	All	NDPs: 0 Tests: 8								
Sulphur Dissolved by ICP-OES	All	NDPs: 0 Tests: 8								
Total Dissolved Solids	All	NDPs: 0 Tests: 8								
Total Metals by ICP-MS	All	NDPs: 0 Tests: 8								
TPH CWG (W)	All	NDPs: 0 Tests: 8								
VOC MS (W)	All	NDPs: 0 Tests: 8								

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) Trigger breach confirmed Sample deviation (see appendix)	BH-OBC-06	BH-OBC-12	BH-OBC-15	BH-OBC-04 (D)	BH-OBC-07 (D)	BH-OBC-11 (D)
#	ISO17025 accredited.			7.00	18.50	27.00	16.00	24.50	15.50
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.			20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			210520-119	210520-119	210520-119	210520-119	210520-119	210520-119
(F)	Trigger breach confirmed			24309233	24309270	24309344	24309251	24309207	24309328
1-44@	Sample deviation (see appendix)			EW03	EW05	EW08	EW04	EW02	EW07
Component		LOD/Units	Method						
Alkalinity, Bicarbonate as CaCO3		<2 mg/l	TM043	485	260	275	251	255	265
Carbon, Organic (diss.filt)		<3 mg/l	TM090	<3	<3	<3	<3	<3	<3
Ammoniacal Nitrogen as N (low level)		<0.01 mg/l	TM099	0.031 #	0.023 #	0.012 #	0.019 #	0.012 #	0.012 #
Fluoride		<0.5 mg/l	TM104	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #
Dissolved solids, Total (meter)		<5 mg/l	TM123	637 #	626 #	588 #	619 #	606 #	618 #
Chromium, Trivalent (Low)		<0.003 mg/l	TM152	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Antimony (diss.filt)		<1 µg/l	TM152	<1 2 #	<1 #	<1 #	<1 #	<1 #	<1 #
Arsenic (diss.filt)		<0.5 µg/l	TM152	<0.5 2 #	<0.5 #	0.562 #	<0.5 #	<0.5 #	<0.5 #
Barium (diss.filt)		<0.2 µg/l	TM152	50.9 2 #	41.3 #	58.9 #	41.8 #	43.6 #	40.9 #
Beryllium (diss.filt)		<0.1 µg/l	TM152	<0.1 2 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #
Boron (diss.filt)		<10 µg/l	TM152	16.1 2 #	40.1 #	46.8 #	30.3 #	26.5 #	37.3 #
Cadmium (diss.filt)		<0.08 µg/l	TM152	<0.08 2 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #
Chromium (diss.filt)		<1 µg/l	TM152	<1 2 #	<1 #	<1 #	<1 #	<1 #	<1 #
Copper (diss.filt)		<0.3 µg/l	TM152	0.496 2 #	0.724 #	2.71 #	0.779 #	1.19 #	1.01 #
Lead (diss.filt)		<0.2 µg/l	TM152	<0.2 2 #	<0.2 #	2.13 #	<0.2 #	1.21 #	<0.2 #
Manganese (diss.filt)		<3 µg/l	TM152	44.9 2 #	<3 #	29.6 #	<3 #	25.8 #	<3 #
Molybdenum (diss.filt)		<3 µg/l	TM152	<3 2 #	<3 #	5.6 #	<3 #	<3 #	<3 #
Nickel (diss.filt)		<0.4 µg/l	TM152	1.65 2 #	0.495 #	2.52 #	<0.4 #	1.01 #	0.651 #
Selenium (diss.filt)		<1 µg/l	TM152	<1 2 #	<1 #	<1 #	1.38 #	<1 #	<1 #
Vanadium (diss.filt)		<1 µg/l	TM152	<1 2 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc (diss.filt)		<1 µg/l	TM152	1.75 2 #	2.95 #	12 #	2.16 #	17.8 #	1.83 #
Sodium (Dis.Filt)		<0.076 mg/l	TM152	19.5 2 #	27.9 #	23 #	20.3 #	18.1 #	25.4 #
Magnesium (Dis.Filt)		<0.036 mg/l	TM152	3.22 2 #	4.86 #	6.1 #	4.33 #	4.44 #	4.97 #
Calcium (Dis.Filt)		<0.2 mg/l	TM152	167 2 #	149 #	151 #	151 #	153 #	152 #
Iron (Dis.Filt)		<0.019 mg/l	TM152	<0.019 2 #	<0.019 #	0.221 #	<0.019 #	0.111 #	<0.019 #
Hardness, Total as CaCO3 unfiltered		<0.35 mg/l	TM152	1360	426	409	447	448	418
Mercury (diss.filt)		<0.01 µg/l	TM183	<0.01 2 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Sulphate		<2 mg/l	TM184	57 #	62.9 #	54 #	58.4 #	53.4 #	63.3 #
Chloride		<2 mg/l	TM184	56 #	61 #	50.8 #	45.6 #	53.1 #	52.3 #
Nitrate as NO3		<0.3 mg/l	TM184	117	57.1	51.3	107	82.9	56.7
Sulphur Dissolved		<1 mg/l	TM228	16	19	16	16.5	15.9	17.7
pH		<1 pH Units	TM256	7.36 #	7.38 #	7.41 #	7.3 #	7.4 #	7.26 #

CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

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CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH-OBC-07 (S)	BH-TH-01				
#	ISO17025 accredited.		6.50	9.00				
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
+	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-456	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	425	420				
Carbon, Organic (diss.filt)	<3 mg/l	TM090	<3	<3				
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.017 #	0.023 #				
Fluoride	<0.5 mg/l	TM104	<0.5 #	<0.5 #				
Dissolved solids, Total (meter)	<5 mg/l	TM123	697 #	814 #				
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003	<0.003				
Antimony (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #				
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5 #	<0.5 2 #				
Barium (diss.filt)	<0.2 µg/l	TM152	39.6 #	41.6 2 #				
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 #	<0.1 2 #				
Boron (diss.filt)	<10 µg/l	TM152	12.1 #	24 2 #				
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 2 #				
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #				
Copper (diss.filt)	<0.3 µg/l	TM152	0.655 #	1.53 2 #				
Lead (diss.filt)	<0.2 µg/l	TM152	0.345 #	<0.2 2 #				
Manganese (diss.filt)	<3 µg/l	TM152	9.41 #	4.98 2 #				
Molybdenum (diss.filt)	<3 µg/l	TM152	<3 #	<3 2 #				
Nickel (diss.filt)	<0.4 µg/l	TM152	<0.4 #	1.13 2 #				
Selenium (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #				
Vanadium (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #				
Zinc (diss.filt)	<1 µg/l	TM152	3.21 #	26.3 2 #				
Sodium (Dis.Filt)	<0.076 mg/l	TM152	22 #	27.7 2 #				
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	3.31 #	3.42 2 #				
Calcium (Dis.Filt)	<0.2 mg/l	TM152	178 #	201 2 #				
Iron (Dis.Filt)	<0.019 mg/l	TM152	0.0431 #	<0.019 2 #				
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	1110	971				
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 2 #				
Sulphate	<2 mg/l	TM184	67 #	63.1 #				
Chloride	<2 mg/l	TM184	69.4 #	85.1 #				
Nitrate as NO3	<0.3 mg/l	TM184	120	195				
Sulphur Dissolved	<1 mg/l	TM228	20	18.6				
pH	<1 pH Units	TM256	7.34 #	7.3 #				

		CERTIFICATE OF ANALYSIS						Validated	
SDG: 210520-119		Client Reference: B025563		Report Number: 600017					
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:					

		CERTIFICATE OF ANALYSIS										Validated		
SDG:		210520-119		Client Reference:		B025563		Report Number:		600017		Validated		
Location:		Cambridge South East Tra		Order Number:		7000964		Superseded Report:						
PAH Spec MS - Aqueous (W)														
Results Legend			Customer Sample Ref.		BH-OBC-07 (S)		BH-TH-01							
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-445@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		6.50 Ground Water (GW) 18/05/2021 . 20/05/2021 210520-119 24309302 EW06		9.00 Ground Water (GW) 18/05/2021 . 20/05/2021 210520-119 24309193 EW01							
Component		LOD/Units	Method											
Naphthalene (aq)		<0.01 µg/l	TM178		<0.01 #		<0.01 #							
Acenaphthene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Acenaphthylene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Fluoranthene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Anthracene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Phenanthrene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Fluorene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Chrysene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Pyrene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Benzo(a)anthracene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Benzo(b)fluoranthene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Benzo(k)fluoranthene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Benzo(a)pyrene (aq)		<0.002 µg/l	TM178		<0.002 #		<0.002 #							
Dibenzo(a,h)anthracene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Benzo(g,h,i)perylene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
Indeno(1,2,3-cd)pyrene (aq)		<0.005 µg/l	TM178		<0.005 #		<0.005 #							
PAH, Total Detected USEPA 16 (aq)		<0.082 µg/l	TM178		<0.082 #		<0.082 #							

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Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH-OBC-07 (S)	BH-TH-01			
# M aq diss.flit tot.unflit + ** (F) 1-4+5/6	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery Trigger breach confirmed Sample deviation (see appendix)	Customer Sample Ref.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	6.50 Ground Water (GW) 18/05/2021 . 20/05/2021 210520-119 24309302 EW06	9.00 Ground Water (GW) 18/05/2021 . 20/05/2021 210520-119 24309193 EW01			
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM245	106	100				
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #				
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #	<3 #				
Benzene	<7 µg/l	TM245	<7 #	<7 #				
Toluene	<4 µg/l	TM245	<4 #	<4 #				
Ethylbenzene	<5 µg/l	TM245	<5 #	<5 #				
m,p-Xylene	<8 µg/l	TM245	<8 #	<8 #				
o-Xylene	<3 µg/l	TM245	<3 #	<3 #				
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11				
Sum of detected BTEX	<28 µg/l	TM245	<28	<28				
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10				
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10				
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10				
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10				
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10				
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10				
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10				
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10				
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10				
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10				
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10				
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10				
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10				
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10				
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10				
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10				
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10				
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10				



CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-OBC-06	BH-OBC-12	BH-OBC-15	BH-OBC-04 (D)	BH-OBC-07 (D)	BH-OBC-11 (D)
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		7.00	18.50	27.00	16.00	24.50	15.50
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021
dis.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021
+	Subcontracted - refer to subcontractor report for accreditation status.			210520-119	210520-119	210520-119	210520-119	210520-119	210520-119
% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			24309233	24309270	24309344	24309251	24309207	24309328	
(F)	Trigger breach confirmed		EW03	EW05	EW08	EW04	EW02	EW07	
1-4	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	119	126	117	123	122	120	
Toluene-d8**	%	TM208	100	101	100	101	101	102	
4-Bromofluorobenzene**	%	TM208	103	104	105	103	104	105	
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Benzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Toluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	

CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-OBC-06	BH-OBC-12	BH-OBC-15	BH-OBC-04 (D)	BH-OBC-07 (D)	BH-OBC-11 (D)
#	ISO17025 accredited.	<div>Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No(s) AGS Reference</div>		7.00	18.50	27.00	16.00	24.50	15.50
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021	18/05/2021
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
-	Subcontracted - refer to subcontractor report for accreditation status.			20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021	20/05/2021
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			210520-119	210520-119	210520-119	210520-119	210520-119	210520-119
(F)	Trigger breach confirmed			24309233	24309270	24309344	24309251	24309207	24309328
1-4+5&6	Sample deviation (see appendix)	EW03	EW05	EW08	EW04	EW02	EW07		
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]

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CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600017

Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH-OBC-07 (S)	BH-TH-01				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-44@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM208	123	129				
Toluene-d8**	%	TM208	101	101				
4-Bromofluorobenzene**	%	TM208	104	106				
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #				
Chloromethane	<1 µg/l	TM208	<1 #	<1 #				
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #				
Bromomethane	<1 µg/l	TM208	<1 #	<1 #				
Chloroethane	<1 µg/l	TM208	<1 #	<1 #				
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #				
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #				
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #				
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #				
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #				
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #				
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #				
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #				
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #				
Chloroform	<1 µg/l	TM208	<1 #	<1 #				
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #				
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #				
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #				
Benzene	<1 µg/l	TM208	<1 #	<1 #				
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #				
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #				
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #				
Toluene	<1 µg/l	TM208	<1 #	<1 #				
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #				
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #				

SDG: 210520-119

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600017

Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH-OBC-07 (S)	BH-TH-01				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-44@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
Component	LOD/Units	Method						
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #				
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #				
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #				
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #				
o-Xylene	<1 µg/l	TM208	<1 #	<1 #				
Styrene	<1 µg/l	TM208	<1 #	<1 #				
Bromoform	<1 µg/l	TM208	<1 #	<1 #				
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #				
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #				
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #				
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #				
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #				
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #				
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #				
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #				
Naphthalene	<1 µg/l	TM208	<1 #	<1 #				

SDG: 210520-119

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600017

Superseded Report:



CERTIFICATE OF ANALYSIS

Validated

SDG:210520-119

Location:Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600017

Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH-OBC-07 (S)	BH-TH-01				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-44@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #				
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #				
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #				
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #				
o-Xylene	<1 µg/l	TM208	<1 #	<1 #				
Styrene	<1 µg/l	TM208	<1 #	<1 #				
Bromoform	<1 µg/l	TM208	<1 #	<1 #				
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #				
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #				
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #				
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #				
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #				
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #				
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #				
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #				
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #				
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #				
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #				
Naphthalene	<1 µg/l	TM208	<1 #	<1 #				

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Test Completion Dates

Lab Sample No(s)	24309233	24309270	24309344	24309251	24309207	24309328	24309302	24309193
Customer Sample Ref.	BH-OBC-06	BH-OBC-12	BH-OBC-15	BH-OBC-04 (D)	BH-OBC-07 (D)	BH-OBC-11 (D)	BH-OBC-07 (S)	BH-TH-01
AGS Ref.	EW03	EW05	EW08	EW04	EW02	EW07	EW06	EW01
Depth	7.00	18.50	27.00	16.00	24.50	15.50	6.50	9.00
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021
Ammonium Low	26-May-2021	26-May-2021	26-May-2021	26-May-2021	27-May-2021	26-May-2021	26-May-2021	27-May-2021
Anions by Kone (w)	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021
Chromium III	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021
Dissolved Metals by ICP-MS	22-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021
Dissolved Organic/Inorganic Carbon	30-May-2021	29-May-2021	29-May-2021	30-May-2021	29-May-2021	29-May-2021	29-May-2021	29-May-2021
EPH CWG (Aliphatic) Aqueous GC (W)	25-May-2021	25-May-2021	23-May-2021	23-May-2021	23-May-2021	25-May-2021	25-May-2021	25-May-2021
EPH CWG (Aromatic) Aqueous GC (W)	25-May-2021	25-May-2021	23-May-2021	23-May-2021	23-May-2021	25-May-2021	25-May-2021	25-May-2021
Fluoride	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021
GRO by GC-FID (W)	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021
Low Level Cyanide (W)	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021	26-May-2021
Low Level Hexavalent Chromium (w)	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021
Mercury Dissolved	22-May-2021	22-May-2021	24-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021	22-May-2021
Nitrite by Kone (w)	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021
PAH Spec MS - Aqueous (W)	25-May-2021	25-May-2021	24-May-2021	24-May-2021	24-May-2021	25-May-2021	25-May-2021	25-May-2021
pH Value	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021
Phenols by HPLC (W)	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021
Sulphur Dissolved by ICP-OES	20-May-2021	26-May-2021	26-May-2021	20-May-2021	26-May-2021	20-May-2021	26-May-2021	26-May-2021
Total Dissolved Solids	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021	21-May-2021
Total Metals by ICP-MS	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021	24-May-2021
TPH CWG (W)	26-May-2021	26-May-2021	25-May-2021	25-May-2021	25-May-2021	26-May-2021	26-May-2021	26-May-2021
VOC MS (W)	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021	25-May-2021

ASSOCIATED AQC DATA

Alkalinity as CaCO3				
Component	Method Code	QC 2468	QC 2491	
Total Alkalinity as CaCO3	TM043	101.52 94.47 : 104.41	101.01 96.40 : 105.98	

Ammonium Low				
Component	Method Code	QC 2447	QC 2488	
Ammoniacal Nitrogen as N	TM099	101.0 96.04 : 106.80	99.0 96.04 : 106.80	

Anions by Kone (w)				
Component	Method Code	QC 2493	QC 2410	QC 2489
Chloride	TM184	103.0 92.93 : 115.43	103.0 92.93 : 115.43	103.0 91.40 : 109.10
Sulphate (soluble)	TM184	101.2 90.53 : 113.03	100.4 90.53 : 113.03	99.6 91.99 : 109.30
TON as NO3	TM184	107.0 99.60 : 111.90	107.5 99.60 : 111.90	97.5 90.35 : 108.35

Dissolved Metals by ICP-MS				
Component	Method Code	QC 2476	QC 2492	
Aluminium	TM152	101.0 94.21 : 111.52	101.67 94.21 : 111.52	
Antimony	TM152	102.33 88.37 : 130.57	104.17 88.37 : 130.57	
Arsenic	TM152	102.83 92.62 : 113.52	103.33 92.62 : 113.52	
Barium	TM152	100.67 88.62 : 113.14	101.5 88.62 : 113.14	
Beryllium	TM152	103.67 87.08 : 111.38	103.0 87.08 : 111.38	
Bismuth	TM152	102.83 92.62 : 115.02	101.0 92.62 : 115.02	
Boron	TM152	103.0 86.31 : 120.88	101.67 86.31 : 120.88	
Cadmium	TM152	100.67 93.85 : 111.65	100.0 93.85 : 111.65	
Calcium	TM152	100.67 89.20 : 126.91	100.0 89.20 : 126.91	
Chromium	TM152	100.0 92.50 : 113.03	99.67 92.50 : 113.03	
Cobalt	TM152	103.33 85.01 : 114.87	102.5 85.01 : 114.87	
Copper	TM152	103.33 89.87 : 119.73	103.17 89.87 : 119.73	

Dissolved Metals by ICP-MS

		QC 2476	QC 2492
Iron	TM152	103.33 93.02 : 113.86	102.0 93.02 : 113.86
Lead	TM152	100.33 91.11 : 116.98	99.5 91.11 : 116.98
Lithium	TM152	100.33 87.70 : 115.90	99.17 87.70 : 115.90
Magnesium	TM152	98.0 89.60 : 116.61	95.33 89.60 : 116.61
Manganese	TM152	103.0 93.97 : 112.46	99.67 93.97 : 112.46
Molybdenum	TM152	96.67 89.07 : 110.96	98.5 89.07 : 110.96
Nickel	TM152	102.5 93.70 : 112.15	102.67 93.70 : 112.15
Phosphorus	TM152	98.0 89.24 : 114.18	96.83 89.24 : 114.18
Potassium	TM152	98.67 93.20 : 115.55	98.67 93.20 : 115.55
Selenium	TM152	99.0 91.69 : 117.12	99.33 91.69 : 117.12
Silver	TM152	103.83 90.93 : 121.73	104.0 90.93 : 121.73
Sodium	TM152	98.67 92.42 : 113.24	96.0 92.42 : 113.24
Strontium	TM152	98.67 92.14 : 116.24	100.67 92.14 : 116.24
Tellurium	TM152	99.33 89.88 : 111.78	100.0 89.88 : 111.78
Thallium	TM152	97.33 82.43 : 113.83	96.83 82.43 : 113.83
Tin	TM152	101.83 94.62 : 107.79	103.17 94.62 : 107.79
Titanium	TM152	104.33 90.29 : 115.23	103.0 90.29 : 115.23
Tungsten	TM152	96.5 77.61 : 132.31	95.67 77.61 : 132.31
Uranium	TM152	98.5 86.97 : 115.76	97.33 86.97 : 115.76
Vanadium	TM152	103.83 89.61 : 115.48	104.33 89.61 : 115.48
Zinc	TM152	101.67 87.51 : 116.26	100.0 87.51 : 116.26

Dissolved Organic/Inorganic Carbon

Component	Method Code	QC 2484	QC 2486
Dissolved Inorganic Carbon	TM090	101.17 93.58 : 112.28	101.83 93.58 : 112.28
Dissolved Organic Carbon	TM090	105.0 96.13 : 109.53	105.67 96.13 : 109.53

EPH CWG (Aliphatic) Aqueous GC (W)

EPH CWG (Aliphatic) Aqueous GC (W)

Component	Method Code	QC 2452	QC 2461
Total Aliphatics >C10-C40	TM174	100.0 69.79 : 134.39	103.47 69.79 : 134.39

EPH CWG (Aromatic) Aqueous GC (W)

Component	Method Code	QC 2478
Total Aromatics >EC10-EC40	TM174	97.56 59.92 : 128.54

Fluoride

Component	Method Code	QC 2478	QC 2447
Fluoride	TM104	102.67 96.67 : 108.67	102.67 96.67 : 108.67

GRO by GC-FID (W)

Component	Method Code	QC 2460
Benzene by GC	TM245	107.5 81.54 : 119.70
Ethylbenzene by GC	TM245	107.5 80.99 : 121.09
m & p Xylene by GC	TM245	108.0 82.77 : 123.19
MTBE GC-FID	TM245	103.0 80.06 : 123.27
o Xylene by GC	TM245	108.5 84.26 : 121.50
QC	TM245	101.34 67.65 : 138.14
Toluene by GC	TM245	108.5 82.78 : 121.99

Low Level Cyanide (W)

Component	Method Code	QC 2420
Free Cyanide - Low Level	TM279	79.5 88.27 : 122.21
Total Cyanide - Low Level	TM279	101.5 76.58 : 119.24

Mercury Dissolved

	CERTIFICATE OF ANALYSIS				Validated	
	SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
	Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Mercury Dissolved						

Component	Method Code	QC 2415	QC 2438
Mercury Dissolved (CVAF)	TM183	104.0 74.00 : 116.00	98.5 69.30 : 128.70

PAH Spec MS - Aqueous (W)

Component	Method Code	QC 2471	QC 2490
Acenaphthene by GCMS	TM178	104.4 90.45 : 118.63	105.6 97.60 : 116.80
Acenaphthylene by GCMS	TM178	103.2 90.13 : 116.27	98.0 89.20 : 113.20
Anthracene by GCMS	TM178	100.8 92.40 : 114.00	104.4 92.40 : 116.40
Benz(a)anthracene by GCMS	TM178	101.6 89.51 : 117.69	104.0 84.40 : 110.80
Benzo(a)pyrene by GCMS	TM178	100.4 89.43 : 118.57	104.0 88.40 : 110.00
Benzo(b)fluoranthene by GCMS	TM178	98.4 87.80 : 121.80	105.6 81.20 : 114.80
Benzo(ghi)perylene by GCMS	TM178	103.6 87.10 : 119.30	102.8 93.60 : 112.80
Benzo(k)fluoranthene by GCMS	TM178	105.2 93.23 : 123.57	106.0 90.40 : 119.20
Chrysene by GCMS	TM178	105.6 88.68 : 116.92	104.0 96.80 : 113.60
Dibenzo(ah)anthracene by GCMS	TM178	96.0 86.24 : 118.56	107.6 88.00 : 112.00
Fluoranthene by GCMS	TM178	98.4 86.04 : 121.96	106.4 93.49 : 118.20
Fluorene by GCMS	TM178	103.6 90.76 : 121.24	106.4 94.39 : 118.66
Indeno(123cd)pyrene by GCMS	TM178	96.4 88.39 : 119.61	104.0 90.40 : 114.40
Naphthalene by GCMS	TM178	106.4 89.40 : 121.80	107.6 94.00 : 115.60
Phenanthrene by GCMS	TM178	103.2 90.41 : 119.19	104.4 94.80 : 114.00
Pyrene by GCMS	TM178	97.6 91.00 : 120.20	109.6 96.40 : 115.60

pH Value

Component	Method Code	QC 2434	QC 2436	QC 2438	QC 2440
pH	TM256	100.4 99.33 : 102.54	100.4 99.33 : 102.54	100.53 99.33 : 102.54	100.67 99.33 : 102.54

Phenols by HPLC (W)

	CERTIFICATE OF ANALYSIS				Validated	
	SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
	Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Phenols by HPLC (W)						

Component	Method Code	QC 2492	QC 2405
2,3,5 Trimethyl-Phenol by HPLC (W)	TM259	93.75 76.00 : 124.00	99.61 77.41 : 127.55
2-Isopropyl Phenol by HPLC (W)	TM259	87.95 76.00 : 124.00	91.78 82.77 : 126.51
Cresols by HPLC (W)	TM259	91.45 76.00 : 124.00	100.0 76.60 : 126.28
Napthol by HPLC (W)	TM259	97.66 76.00 : 124.00	101.56 75.40 : 129.40
Phenol by HPLC (W)	TM259	90.74 76.00 : 124.00	96.41 85.77 : 125.91
Xylenols by HPLC (W)	TM259	94.3 76.00 : 124.00	97.47 79.09 : 131.82

Sulphur Dissolved by ICP-OES

Component	Method Code	QC 2472	QC 2425
Sulphur Dissolved	TM228	89.9 83.39 : 110.45	97.2 83.39 : 110.45

Total Dissolved Solids

Component	Method Code	QC 2461
Total Dissolved Solids	TM123	98.8 97.30 : 100.92

Total Metals by ICP-MS

Component	Method Code	QC 2401	QC 2427	QC 2436
Aluminium	TM152	103.0 89.83 : 113.55	104.67 89.83 : 113.55	104.67 89.83 : 113.55
Antimony	TM152	106.5 80.45 : 122.65	109.5 80.45 : 122.65	110.0 80.45 : 122.65
Arsenic	TM152	102.33 85.20 : 116.13	105.17 85.20 : 116.13	104.83 85.20 : 116.13
Barium	TM152	102.5 83.71 : 114.51	103.5 83.71 : 114.51	103.83 83.71 : 114.51
Beryllium	TM152	108.83 86.15 : 118.35	107.17 86.15 : 118.35	108.33 86.15 : 118.35
Bismuth	TM152	111.0 93.28 : 110.08	107.33 93.28 : 110.08	107.5 93.28 : 110.08
Boron	TM152	108.67 93.80 : 119.51	107.67 93.80 : 119.51	107.33 93.80 : 119.51
Cadmium	TM152	103.33 89.88 : 115.18	104.83 89.88 : 115.18	104.83 89.88 : 115.18
Calcium	TM152	101.33 86.60 : 124.32	102.67 86.60 : 124.32	103.33 86.60 : 124.32
Chromium	TM152	100.0 92.14 : 112.07	102.67 92.14 : 112.07	102.67 92.14 : 112.07

Total Metals by ICP-MS

		QC 2401	QC 2427	QC 2436
Cobalt	TM152	103.0 84.39 : 114.26	106.33 84.39 : 114.26	106.5 84.39 : 114.26
Copper	TM152	104.17 84.61 : 114.08	106.17 84.61 : 114.08	108.17 84.61 : 114.08
Iron	TM152	103.33 93.62 : 111.65	104.67 93.62 : 111.65	105.33 93.62 : 111.65
Lead	TM152	104.0 85.65 : 113.58	103.5 85.65 : 113.58	103.17 85.65 : 113.58
Lithium	TM152	105.33 89.26 : 119.04	103.17 89.26 : 119.04	102.5 89.26 : 119.04
Magnesium	TM152	100.67 90.21 : 113.53	99.33 90.21 : 113.53	98.67 90.21 : 113.53
Manganese	TM152	104.83 92.63 : 111.13	106.33 92.63 : 111.13	106.33 92.63 : 111.13
Molybdenum	TM152	99.67 87.00 : 108.89	101.0 87.00 : 108.89	101.67 87.00 : 108.89
Nickel	TM152	103.0 92.80 : 112.94	105.67 92.80 : 112.94	106.17 92.80 : 112.94
Phosphorus	TM152	99.33 89.80 : 113.16	99.67 89.80 : 113.16	98.5 89.80 : 113.16
Potassium	TM152	100.67 91.26 : 116.75	102.0 91.26 : 116.75	102.0 91.26 : 116.75
Selenium	TM152	101.67 88.44 : 113.86	102.33 88.44 : 113.86	101.5 88.44 : 113.86
Silver	TM152	110.33 88.22 : 124.02	105.17 88.22 : 124.02	105.0 88.22 : 124.02
Sodium	TM152	100.0 88.41 : 117.39	100.0 88.41 : 117.39	98.67 88.41 : 117.39
Strontium	TM152	102.67 90.72 : 114.82	103.67 90.72 : 114.82	104.67 90.72 : 114.82
Tellurium	TM152	103.33 91.91 : 111.61	106.5 91.91 : 111.61	106.0 91.91 : 111.61
Thallium	TM152	106.0 84.25 : 117.85	100.5 84.25 : 117.85	100.17 84.25 : 117.85
Tin	TM152	105.83 93.65 : 112.33	107.33 93.65 : 112.33	108.0 93.65 : 112.33
Titanium	TM152	106.5 93.82 : 116.72	108.83 93.82 : 116.72	109.33 93.82 : 116.72
Uranium	TM152	104.0 90.58 : 113.28	103.83 90.58 : 113.28	102.83 90.58 : 113.28
Vanadium	TM152	101.33 88.43 : 114.30	103.33 88.43 : 114.30	107.5 88.43 : 114.30
Zinc	TM152	103.0 86.52 : 115.27	103.67 86.52 : 115.27	104.33 86.52 : 115.27

VOC MS (W)

Component	Method Code	QC 2487
1,1,1,2-Tetrachloroethane	TM208	101.5 78.82 : 115.90
1,1,1-Trichloroethane	TM208	104.0 86.83 : 113.41
1,1-Dichloroethane	TM208	111.0 79.99 : 118.57

VOC MS (W)

		QC 2487
1,2-Dichloroethane	TM208	113.5 79.35 : 124.02
2-Chlorotoluene	TM208	99.5 79.67 : 114.74
4-Chlorotoluene	TM208	101.0 80.15 : 113.42
Benzene	TM208	111.0 82.57 : 114.10
Bromomethane	TM208	109.0 78.77 : 123.20
Carbontetrachloride	TM208	106.0 79.73 : 118.91
Chlorobenzene	TM208	103.0 88.28 : 110.81
Chloroform	TM208	112.0 82.31 : 120.71
Chloromethane	TM208	111.5 62.46 : 124.98
Cis-1,2-Dichloroethene	TM208	110.0 83.75 : 118.91
Dichloromethane	TM208	113.0 81.20 : 120.83
Ethylbenzene	TM208	101.5 80.54 : 112.31
Hexachlorobutadiene	TM208	86.0 73.65 : 117.84
o-Xylene	TM208	102.5 86.17 : 109.69
p/m-Xylene	TM208	100.25 83.09 : 113.86
Tert-butyl methyl ether	TM208	101.5 70.94 : 119.66
Tetrachloroethene	TM208	99.0 84.41 : 112.73
Toluene	TM208	103.0 81.59 : 111.56
Trichloroethene	TM208	102.5 79.53 : 112.32
Vinyl Chloride	TM208	110.5 71.92 : 126.73

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis .
The figure detailed is the percentage recovery result for the AQC .
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control .



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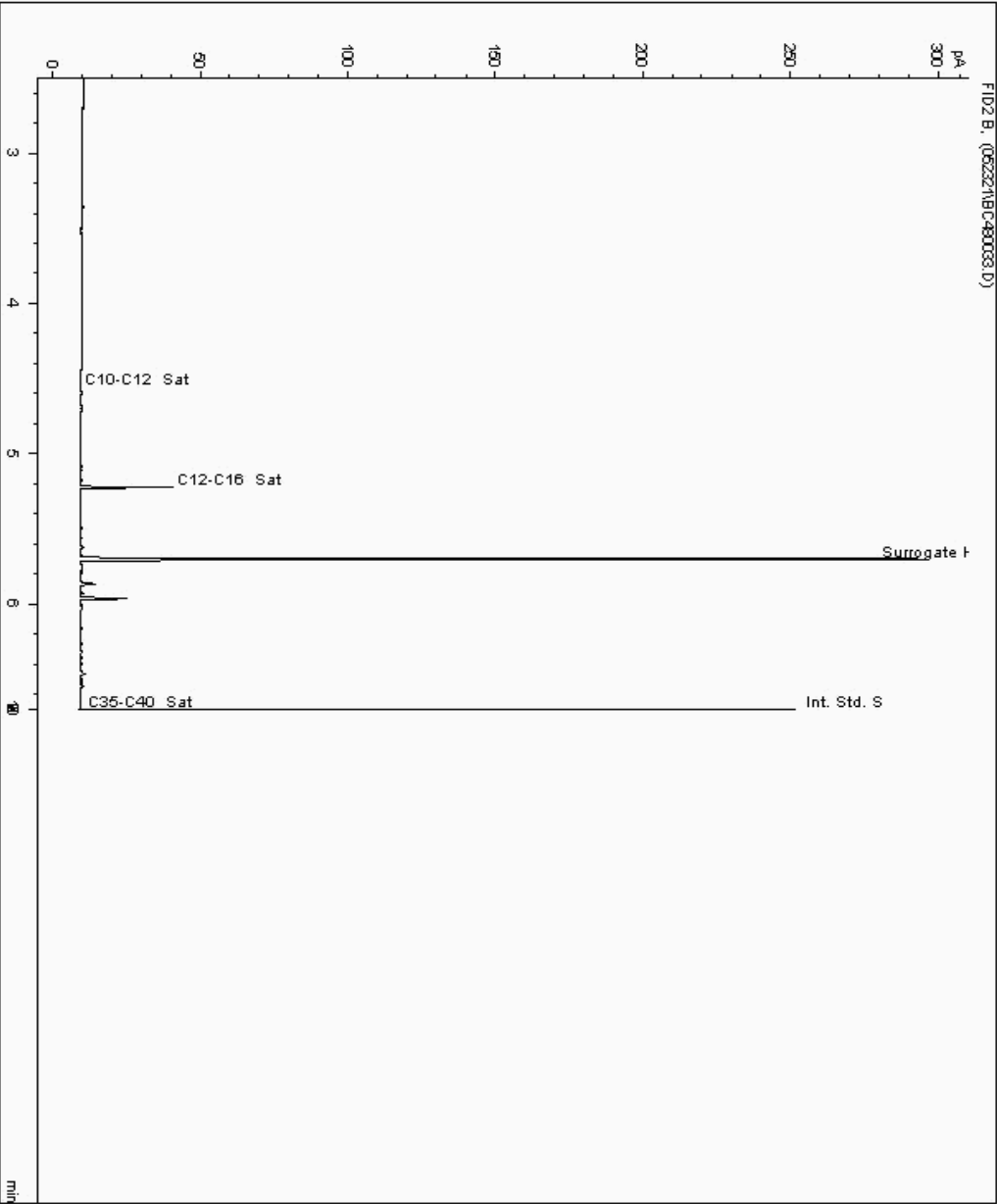
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311123 Depth : 15.50
Sample ID : BH-OBC-11 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768859-
Date Acquired : 25/05/2021 15:53:58 PM
Units : ppb
Dilution : SE BH-OBC-11D[15.50] ->
CF : 1
Multiplier : 0.025



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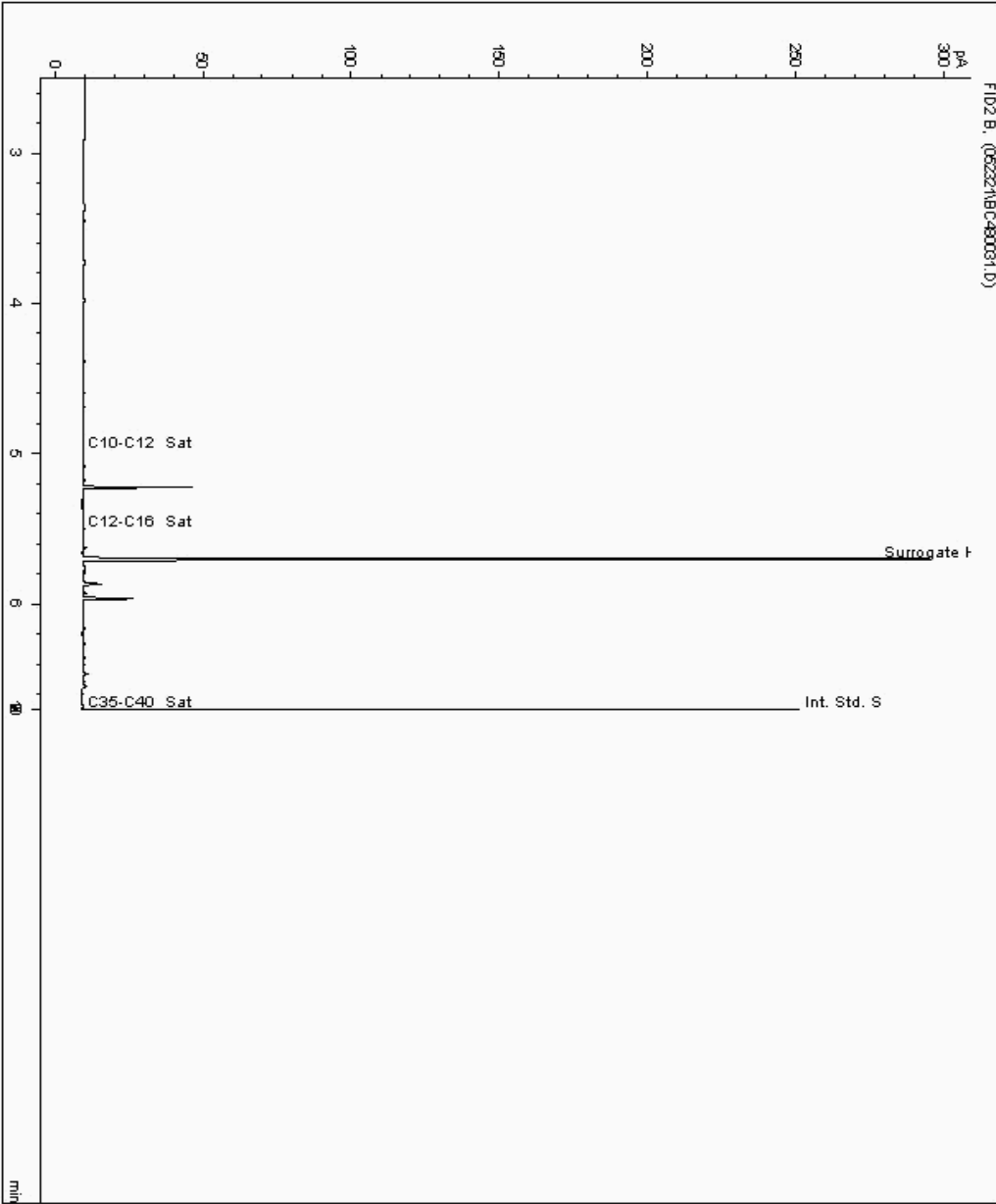
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311159 Depth : 7.00
Sample ID : BH-OBC-06

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768731-
Date Acquired : 25/05/2021 15:07:31 PM
Units : ppb
Dilution : SE BH-OBC-06[7.00] ->
CF : 1
Multiplier : 0.026





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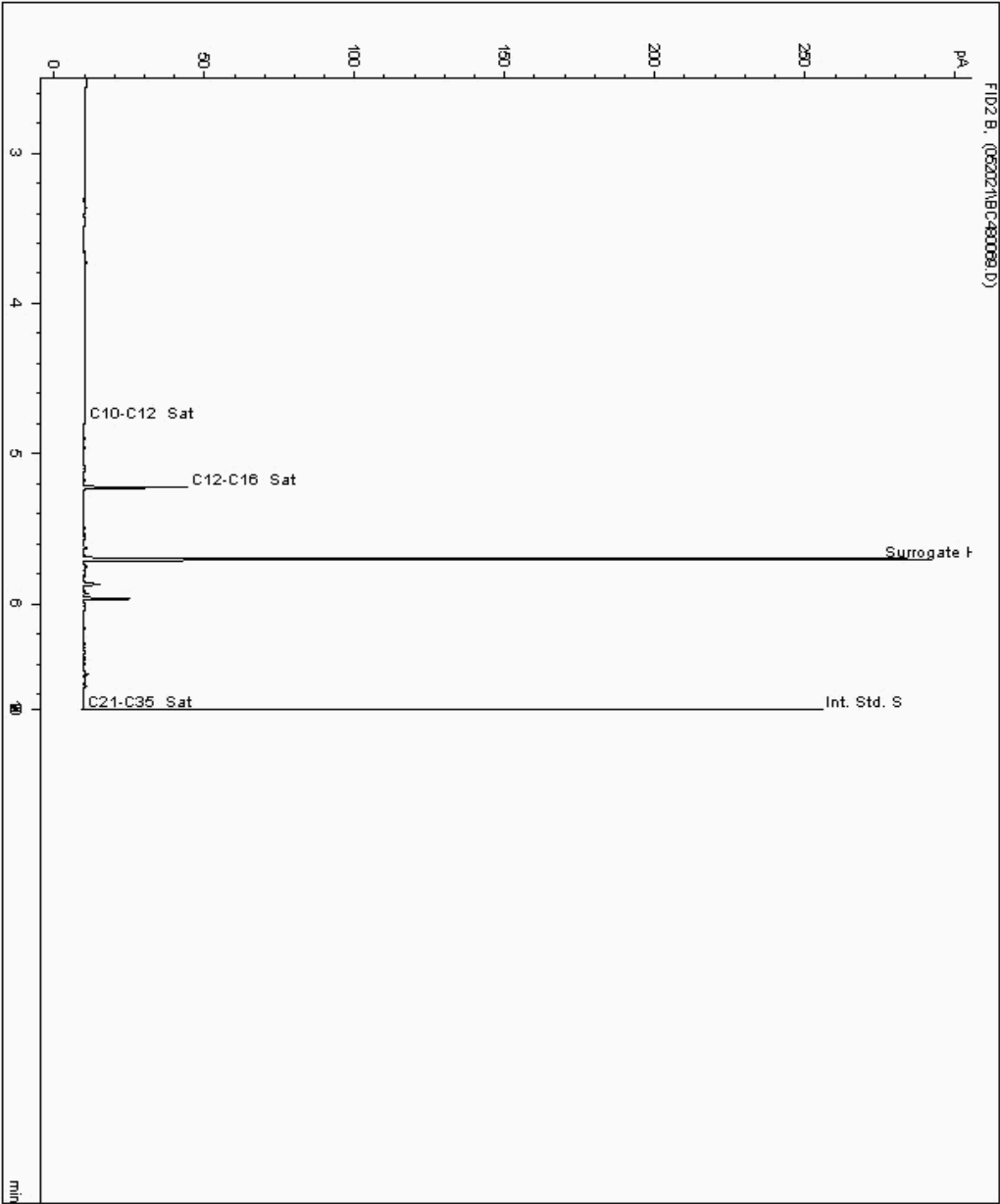
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311244 Depth : 16.00
Sample ID : BH-OBC-04 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768754-
Date Acquired : 22/05/2021 16:47:48 PM
Units : ppb
Dilution : SE BH-OBC-04D[16.00] ->
CF : 1
Multiplier : 0.025



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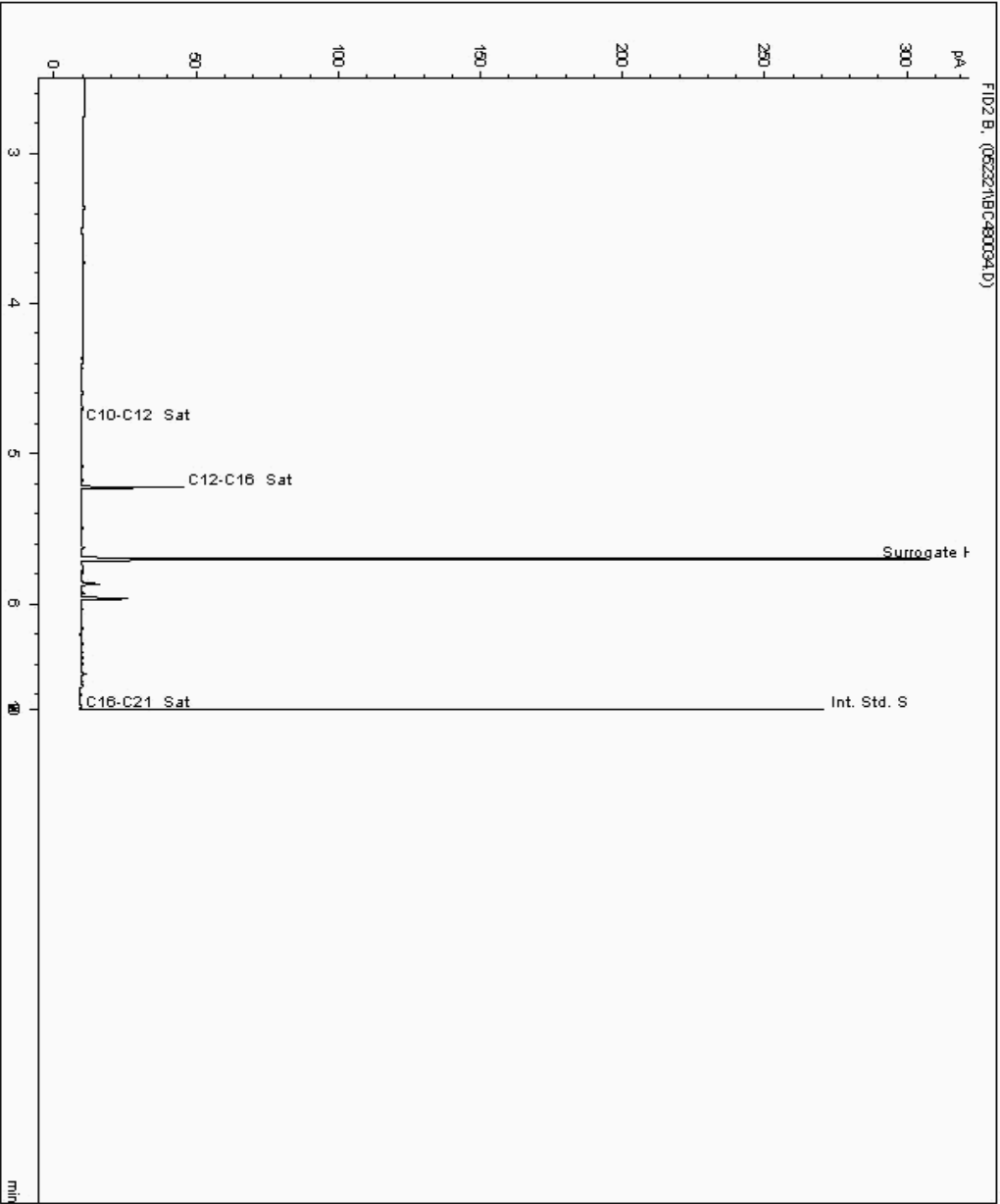
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311301 Depth : 9.00
Sample ID : BH-TH-01

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768684-
Date Acquired : 25/05/2021 16:16:33 PM
Units : ppb
Dilution : SE BH-TH-01[9.00] ->
CF : 1
Multiplier : 0.025





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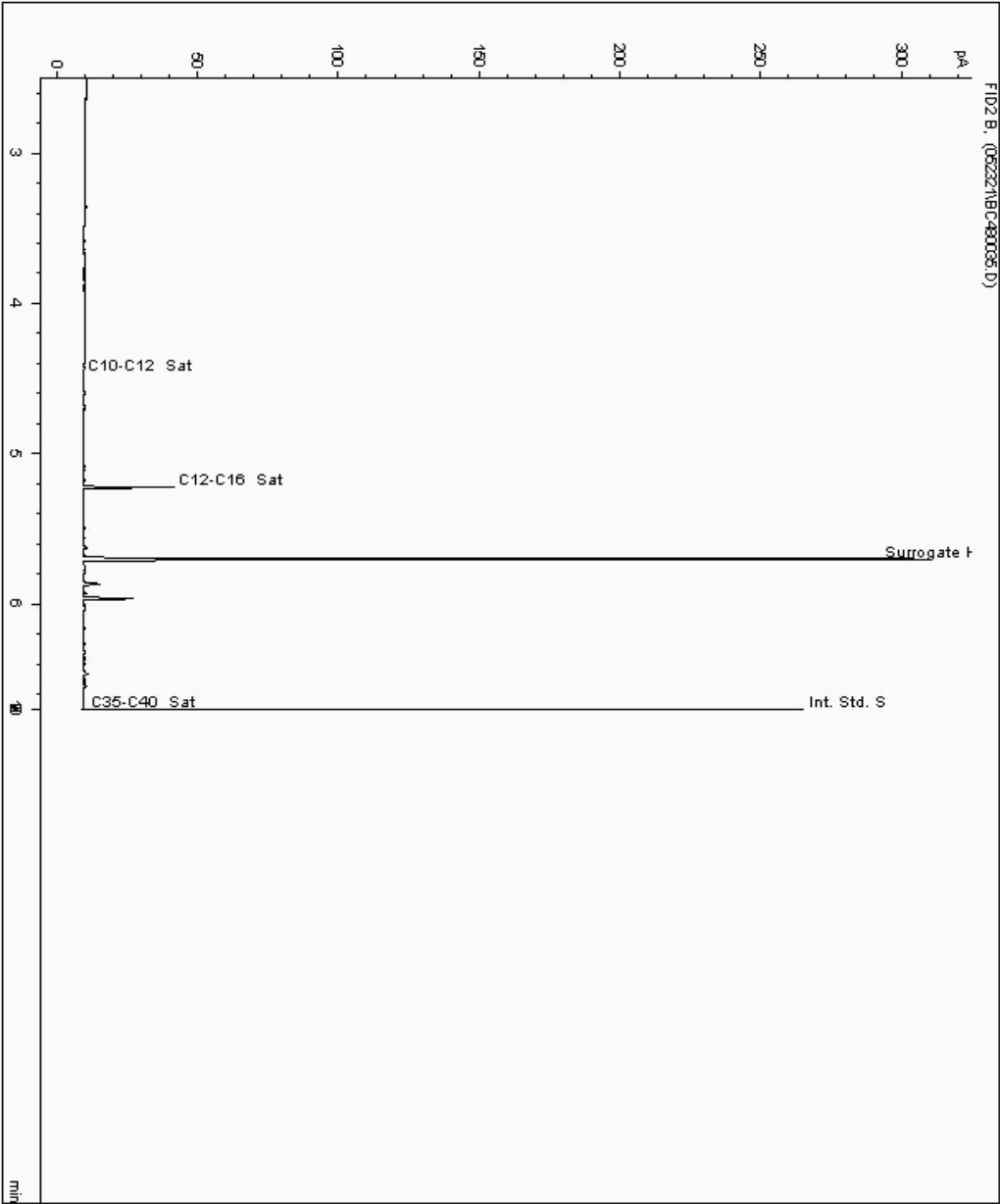
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311354 Depth : 18.50
Sample ID : BH-OBC-12

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768784-
Date Acquired : 25/05/2021 16:39:59 PM
Units : ppb
Dilution : SE BH-OBC-12[18.50] ->
CF : 1
Multiplier : 0.027



CERTIFICATE OF ANALYSIS

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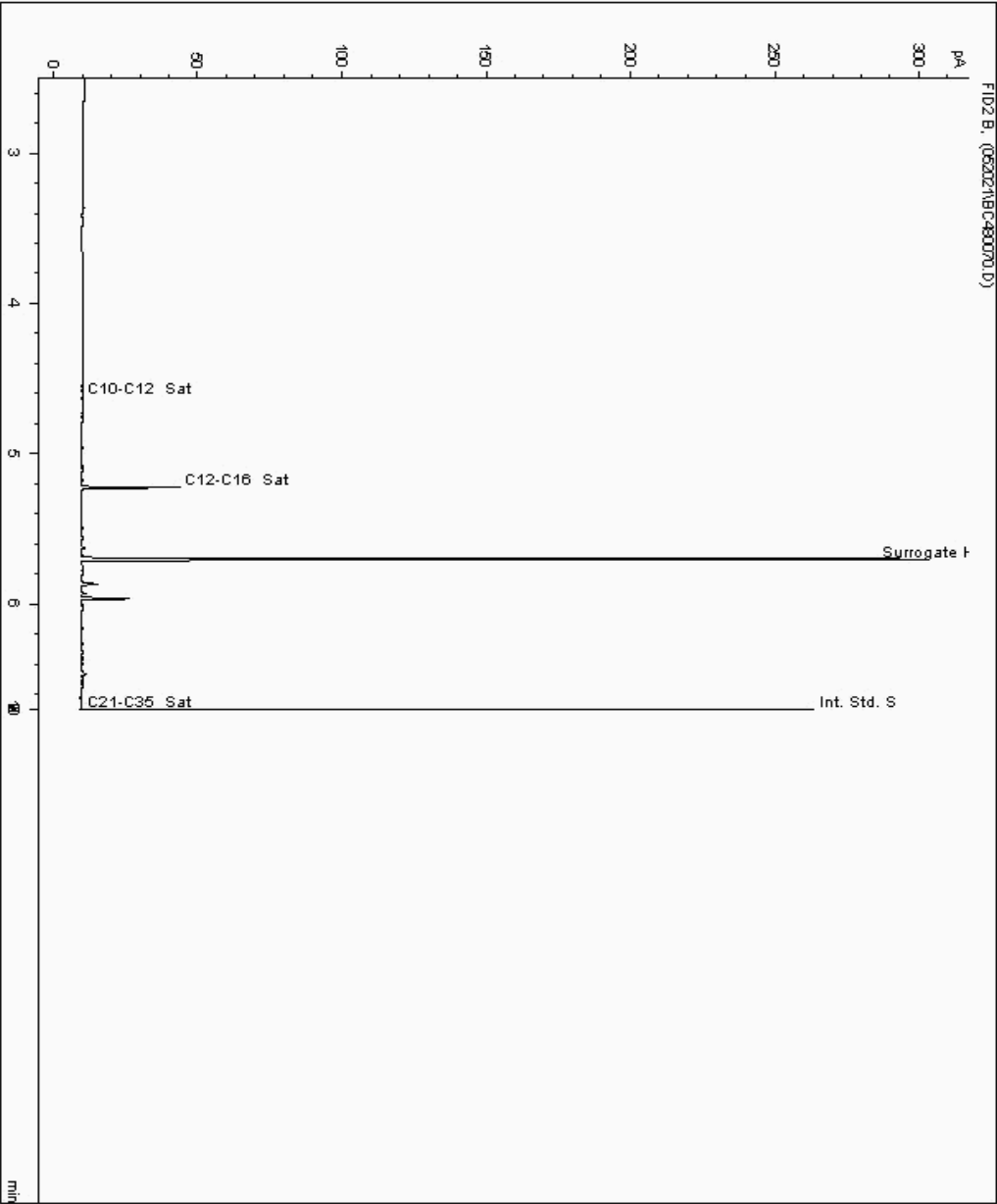
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311404 Depth : 27.00
Sample ID : BH-OBC-15

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768882-
Date Acquired : 22/05/2021 17:11:00 PM
Units : ppb
Dilution : SE BH-OBC-15[27.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

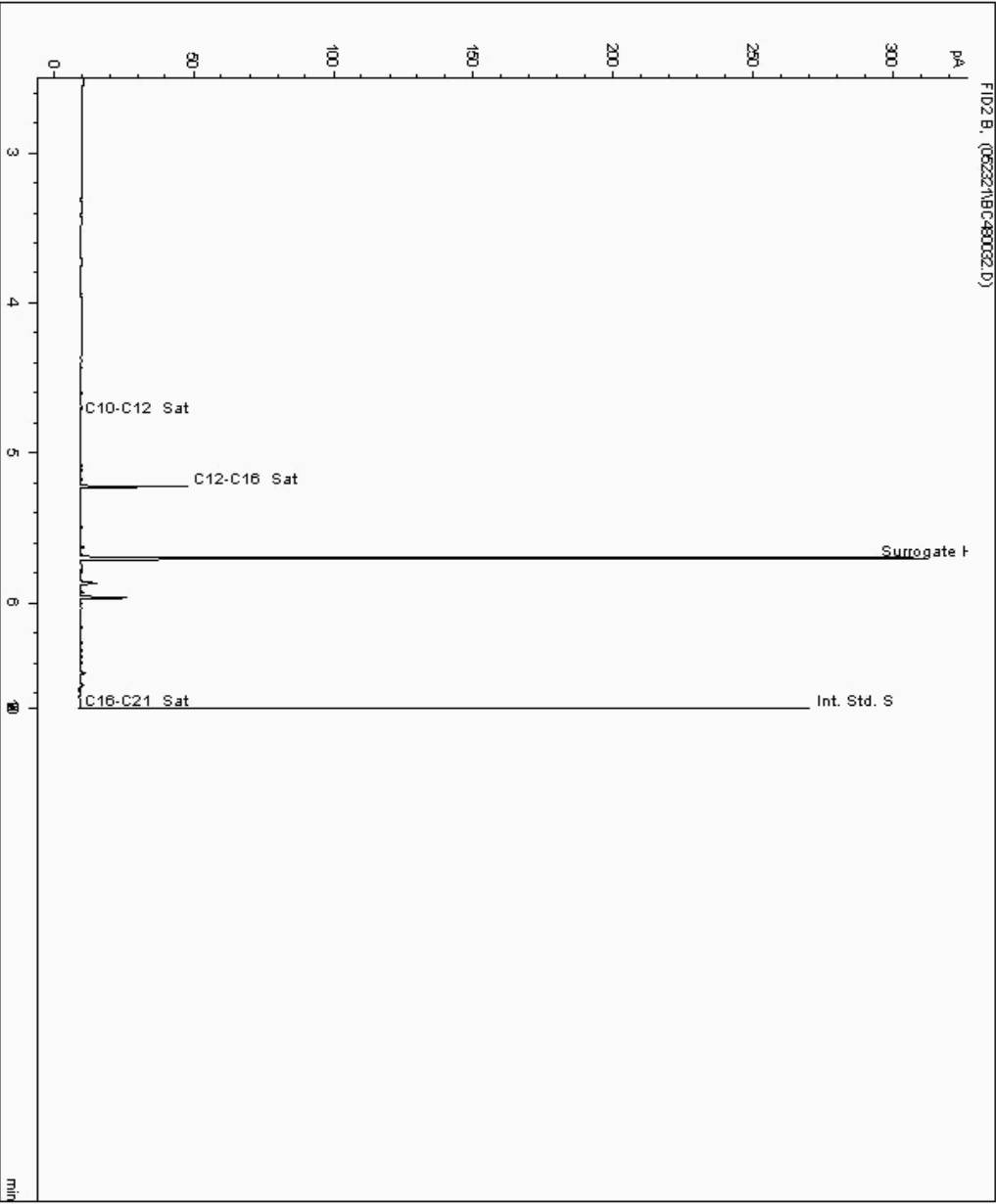
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311441 Depth : 6.50
Sample ID : BH-OBC-07 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768814-
Date Acquired : 25/05/2021 15:30:49 PM
Units : ppb
Dilution : SE BH-OBC-07S[6.50] ->
CF : 1
Multiplier : 0.026



CERTIFICATE OF ANALYSIS

Validated

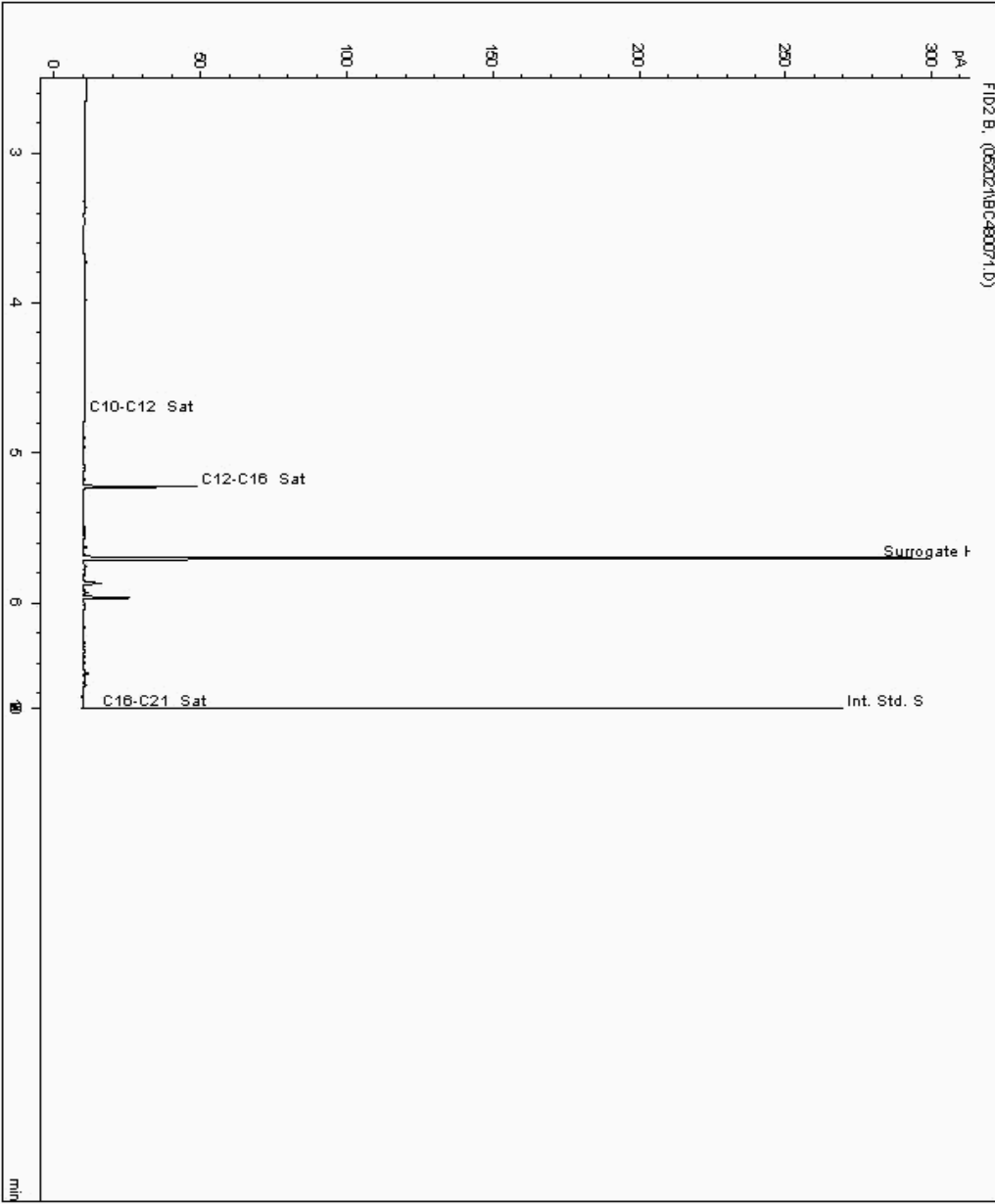
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24311464 Depth : 24.50
Sample ID : BH-OBC-07 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22768707-
Date Acquired : 22/05/2021 17:34:24 PM
Units : ppb
Dilution : SE BH-OBC-07D[24.50] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

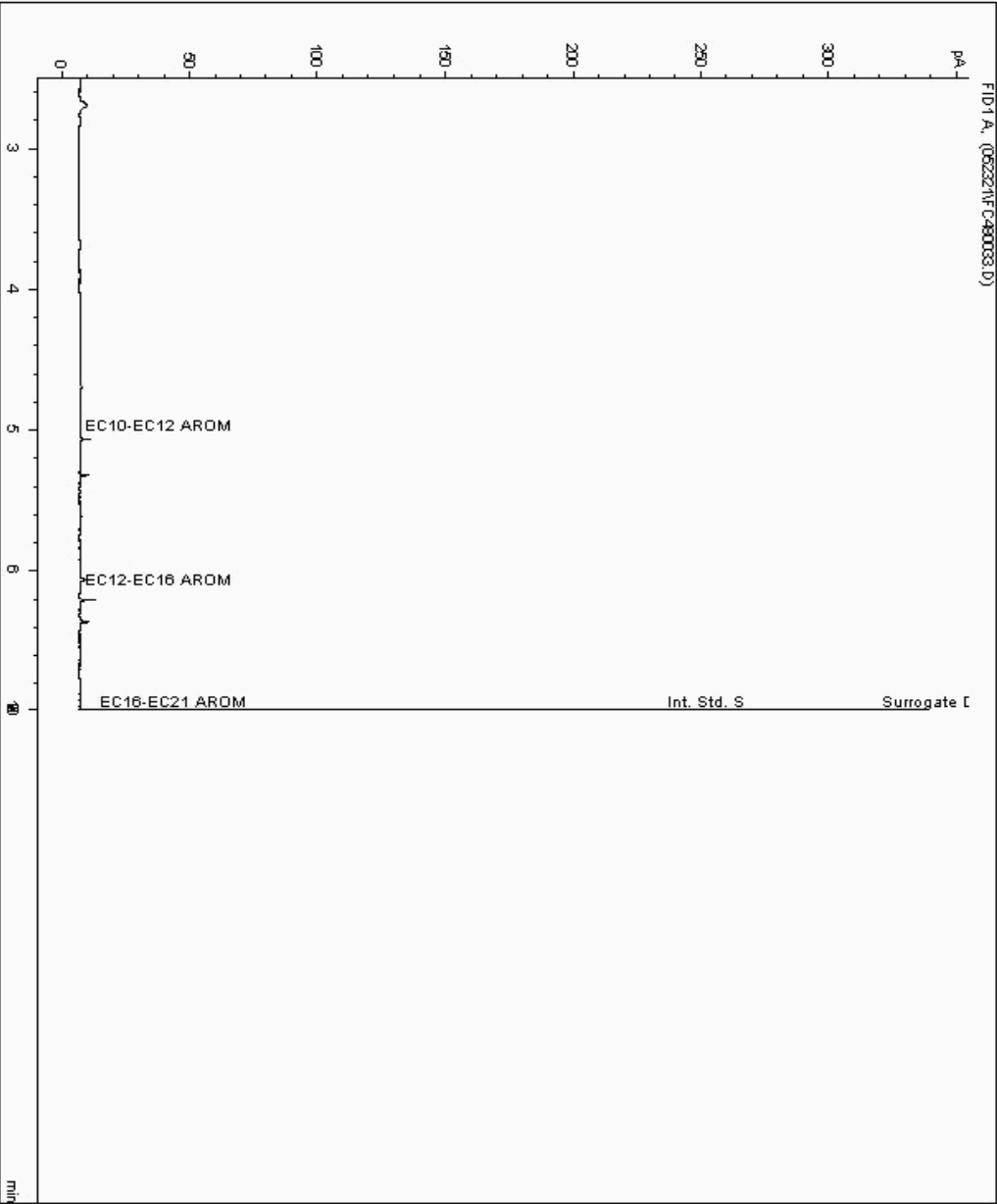
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311123 Depth : 15.50
Sample ID : BH-OBC-11 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768860-
Date Acquired : 25/05/2021 15:53:58 PM
Units : ppb
Dilution : SE BH-OBC-11D[15.50] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

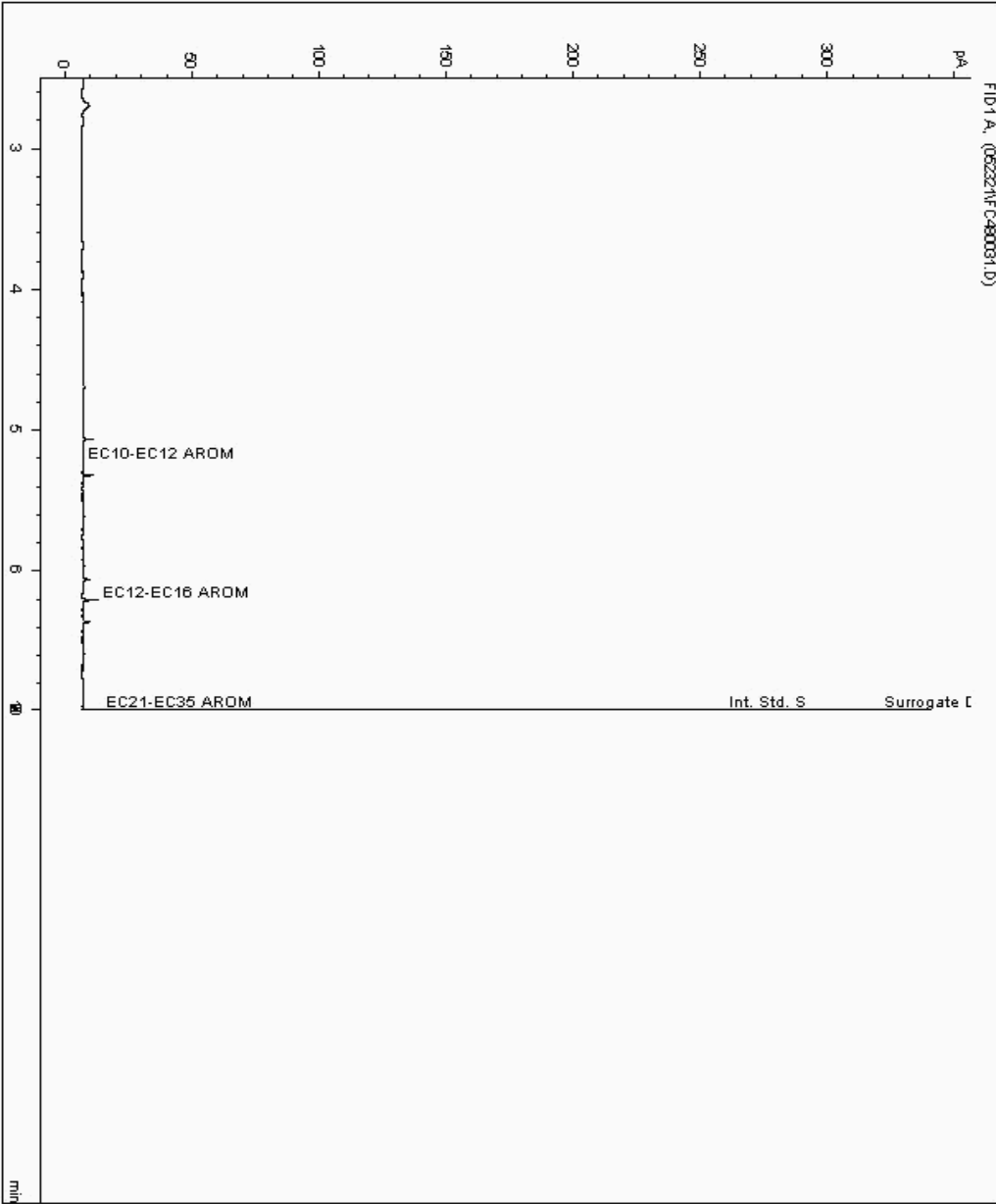
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311159 Depth : 7.00
Sample ID : BH-OBC-06

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768732-
Date Acquired : 25/05/2021 15:07:31 PM
Units : ppb
Dilution : SE BH-OBC-06[7.00] ->
CF : 1
Multiplier : 0.026





CERTIFICATE OF ANALYSIS

Validated

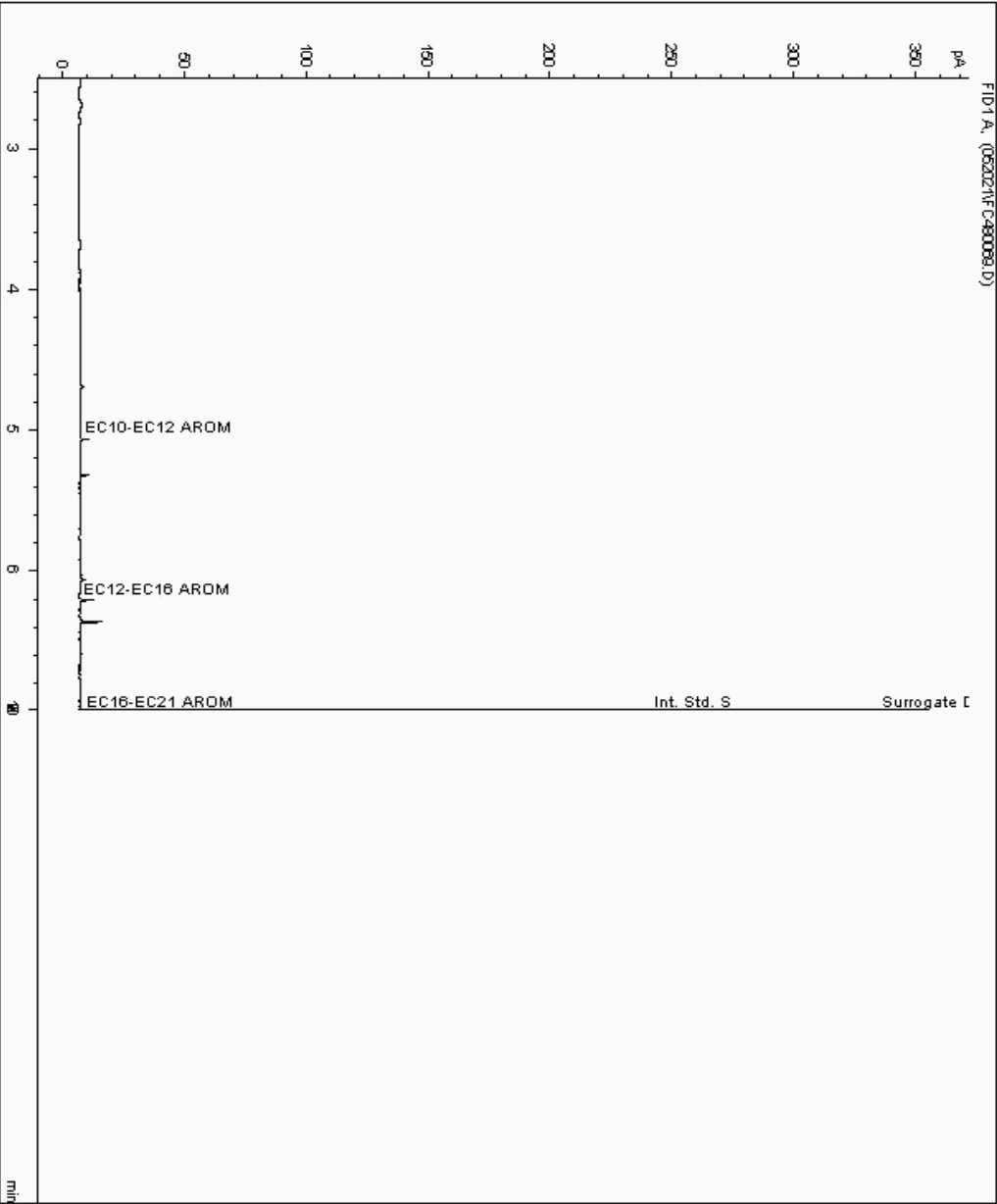
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311244 Depth : 16.00
Sample ID : BH-OBC-04 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768755-
Date Acquired : 22/05/2021 16:47:48 PM
Units : ppb
Dilution : SE BH-OBC-04D[16.00] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

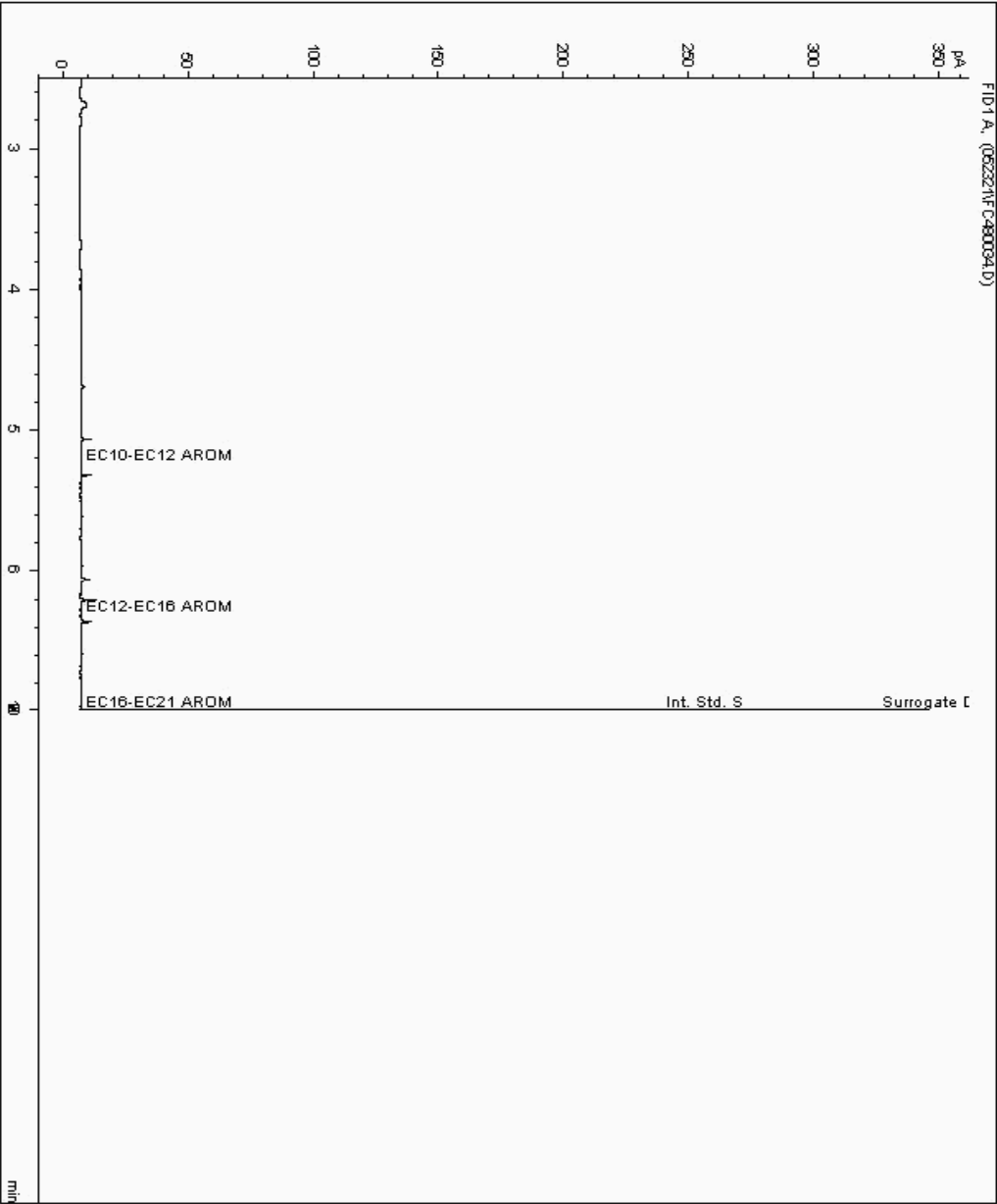
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311301 Depth : 9.00
Sample ID : BH-TH-01

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768685-
Date Acquired : 25/05/2021 16:16:33 PM
Units : ppb
Dilution : SE BH-TH-01[9.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

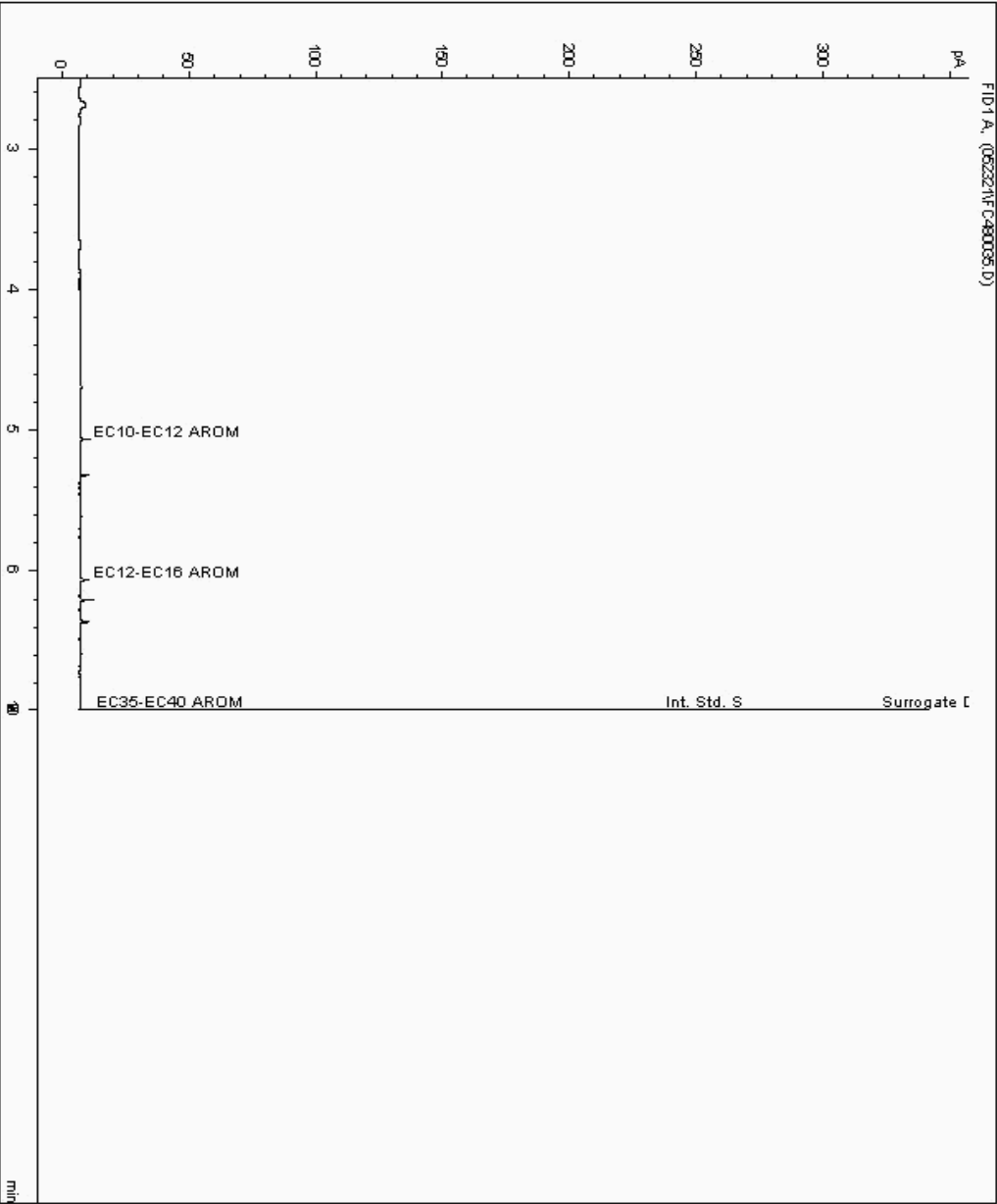
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No: 24311354 Depth: 18.50
Sample ID: BH-OBC-12

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768785-
Date Acquired : 25/05/2021 16:39:59 PM
Units : ppb
Dilution : SE BH-OBC-12[18.50] ->
CF : 1
Multiplier : 0.027



CERTIFICATE OF ANALYSIS

Validated

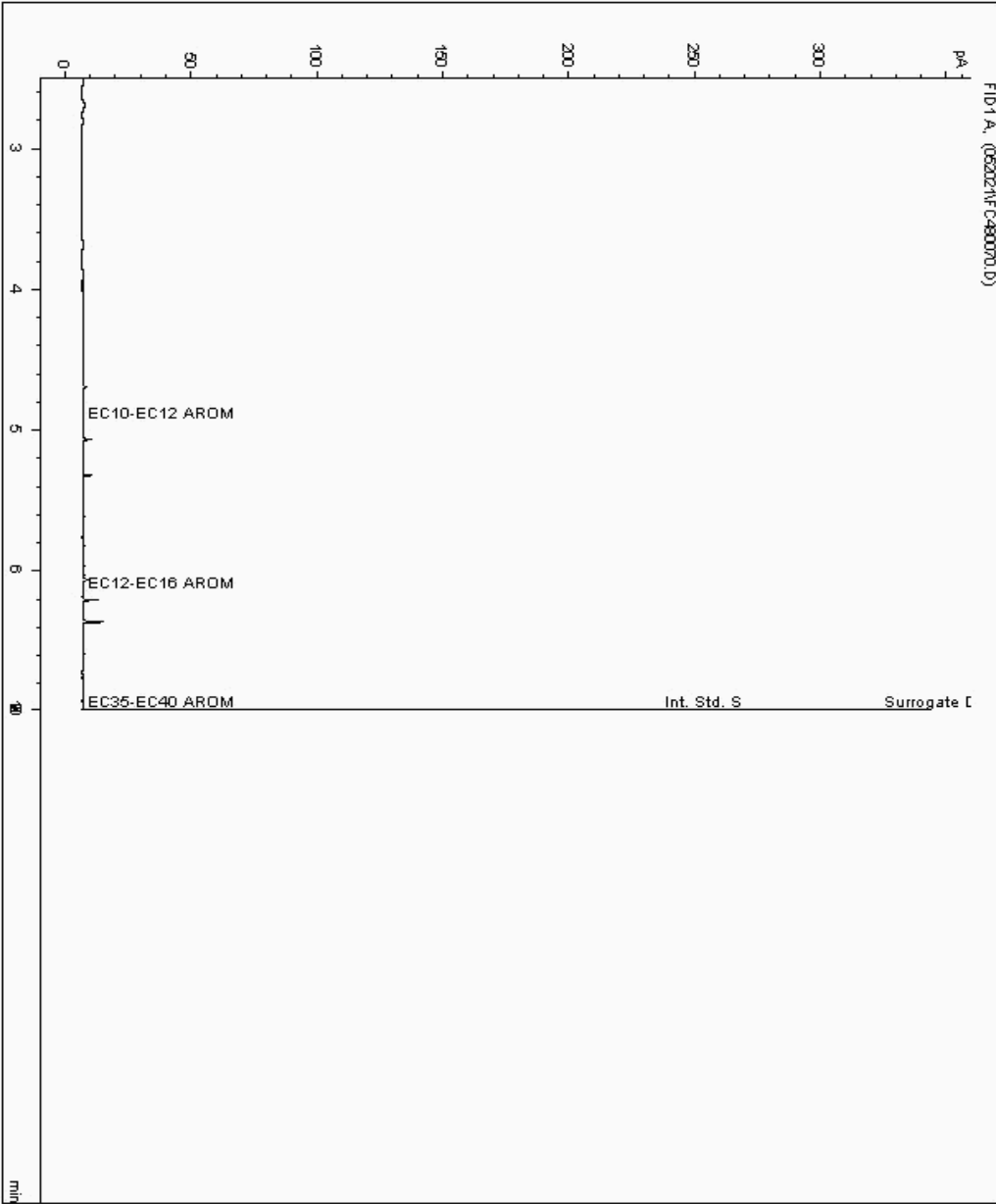
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No: 24311404 Depth: 27.00
Sample ID: BH-OBC-15

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768883-
Date Acquired : 22/05/2021 17:10:59 PM
Units : ppb
Dilution : SE BH-OBC-15[27.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

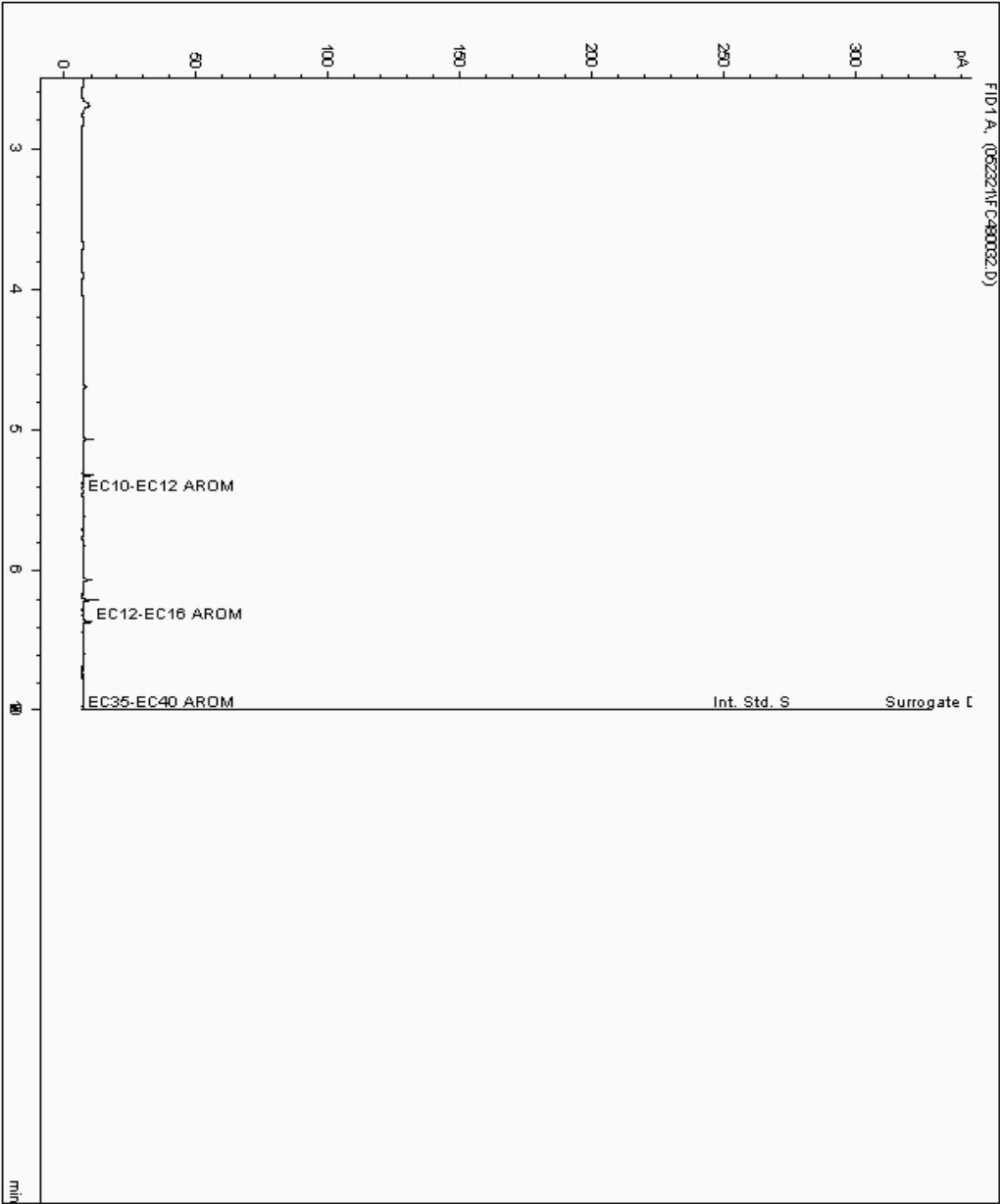
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311441 Depth : 6.50
Sample ID : BH-OBC-07 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768815-
Date Acquired : 25/05/2021 15:30:49 PM
Units : ppb
Dilution : SE BH-OBC-07S[6.50] ->
CF : 1
Multiplier : 0.026



CERTIFICATE OF ANALYSIS

Validated

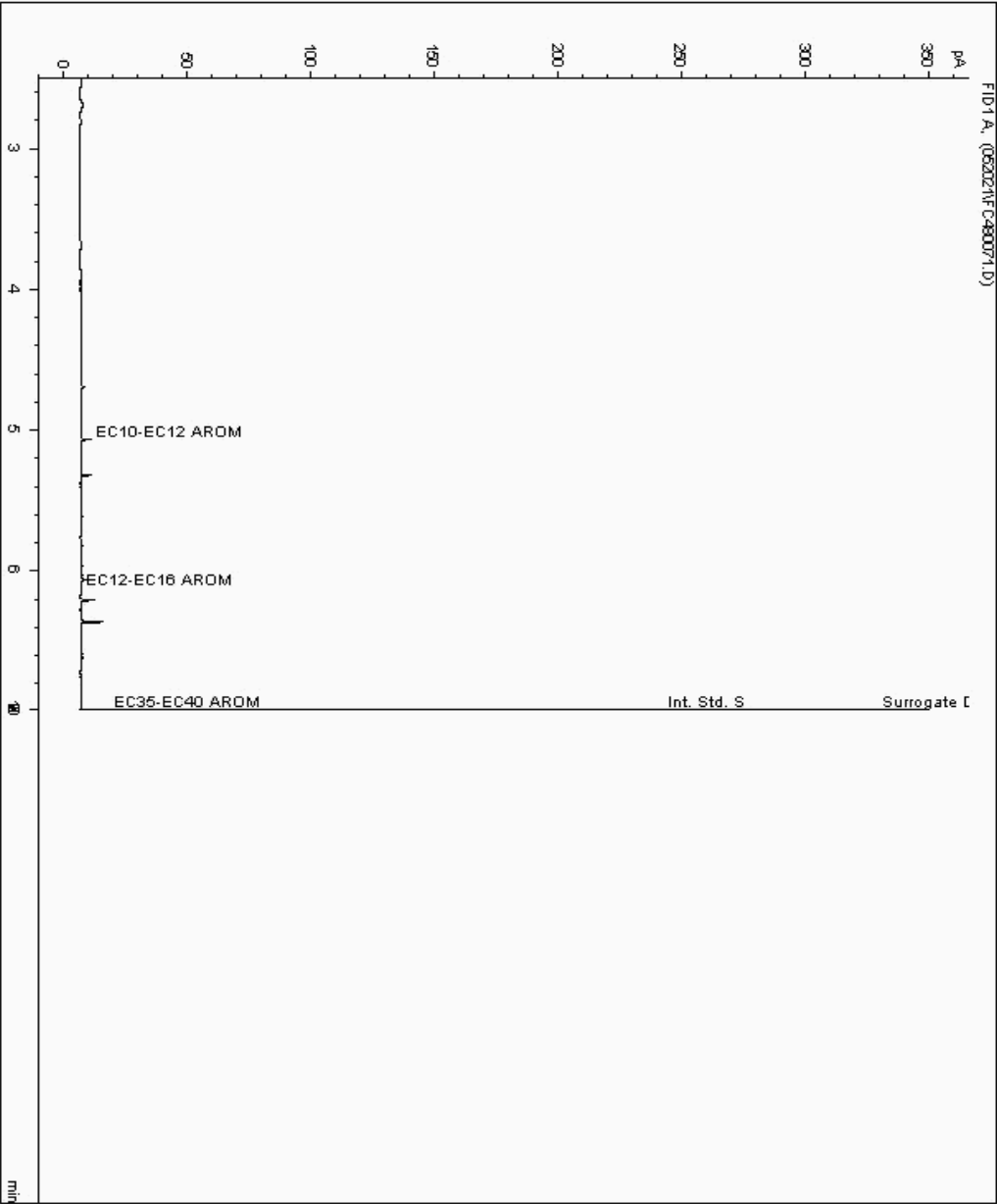
SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24311464 Depth : 24.50
Sample ID : BH-OBC-07 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22768708-
Date Acquired : 22/05/2021 17:34:24 PM
Units : ppb
Dilution : SE BH-OBC-07D[24.50] ->
CF : 1
Multiplier : 0.025





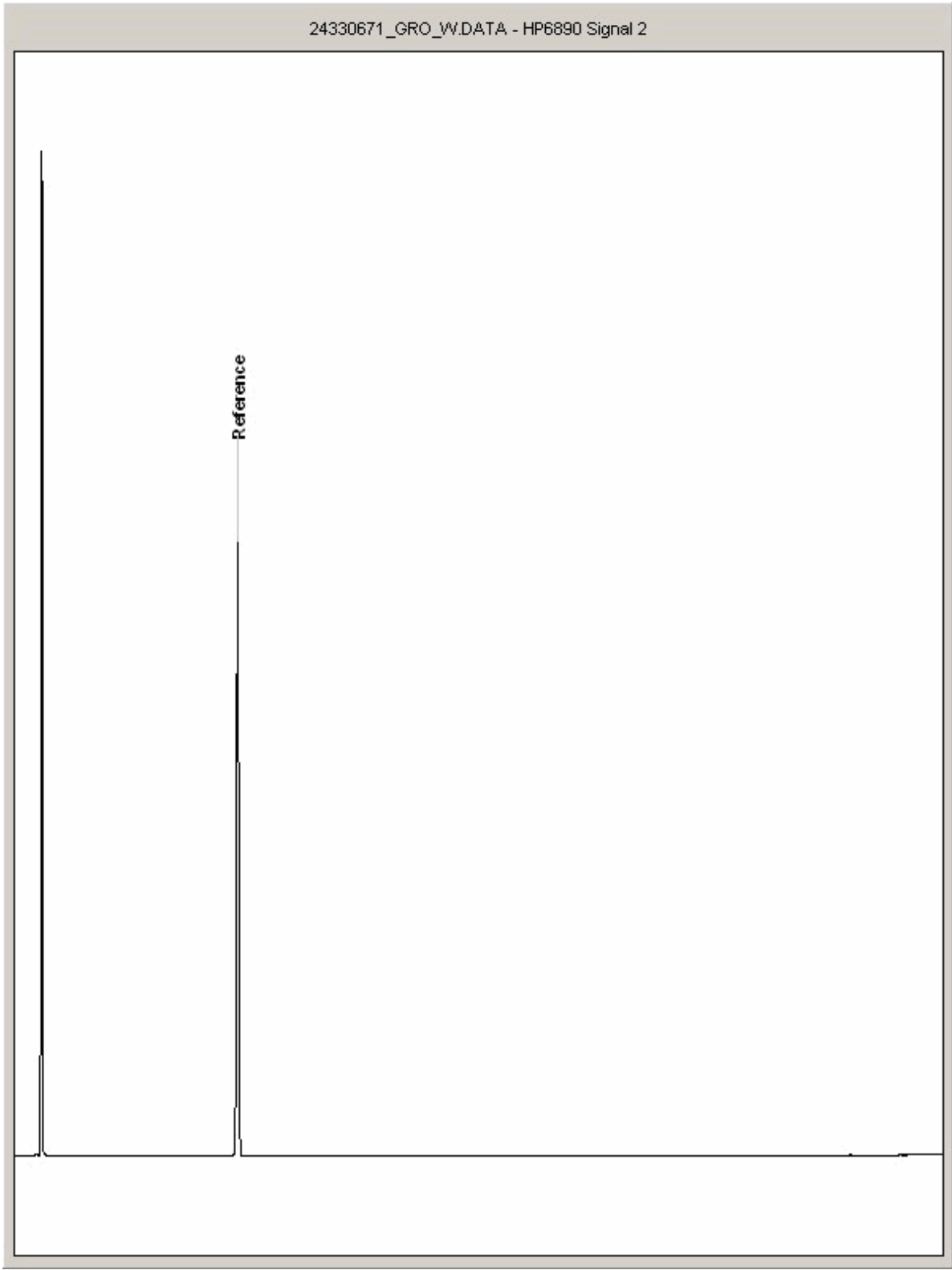
CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis:	GRO by GC-FID (W)	Sample No :	24330671	Depth :	18.50
		Sample ID :	BH-OBC-12		



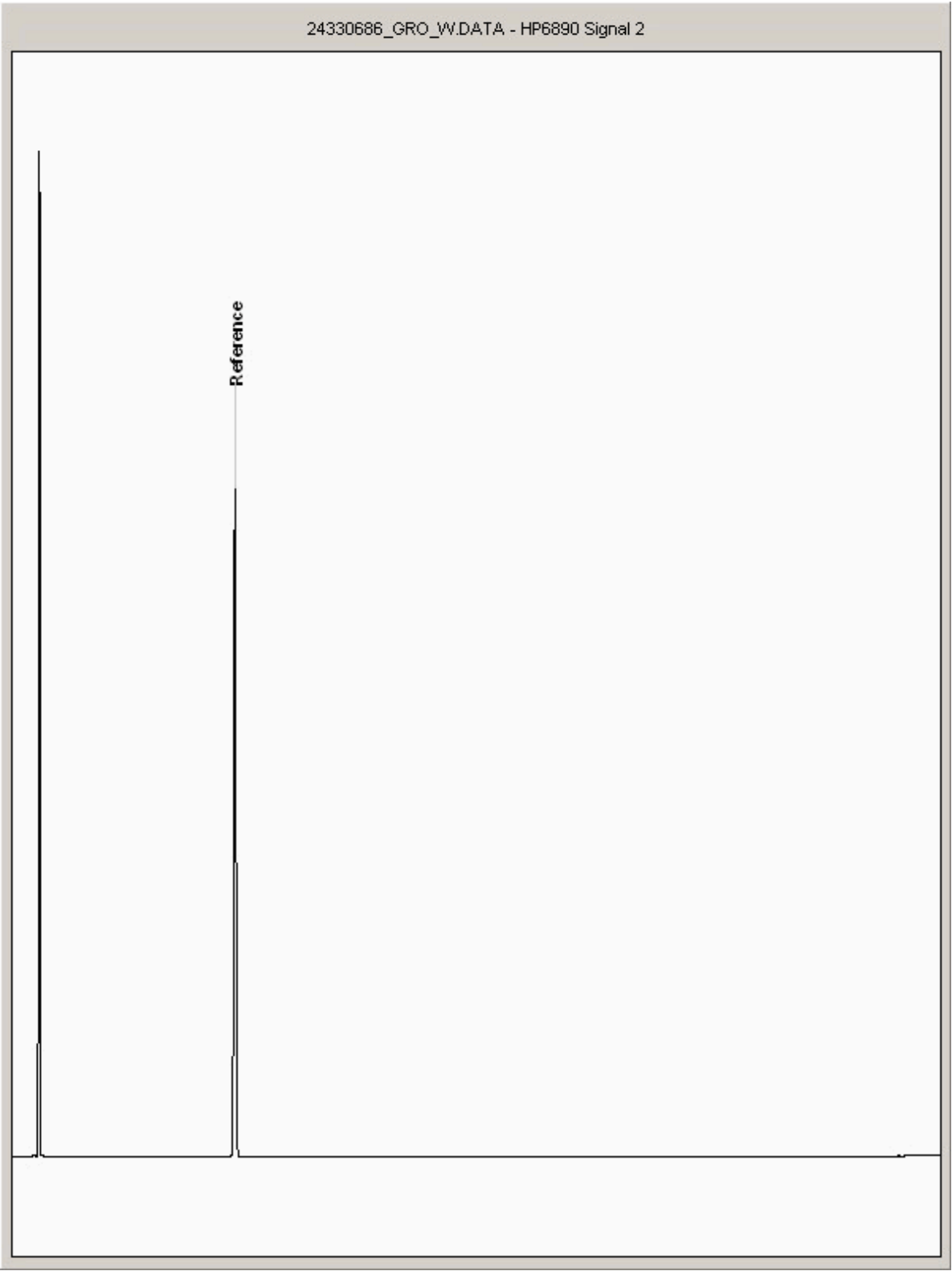
CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis:	GRO by GC-FID (W)	Sample No :	24330686	Depth :	15.50
		Sample ID :	BH-OBC-11 (D)		





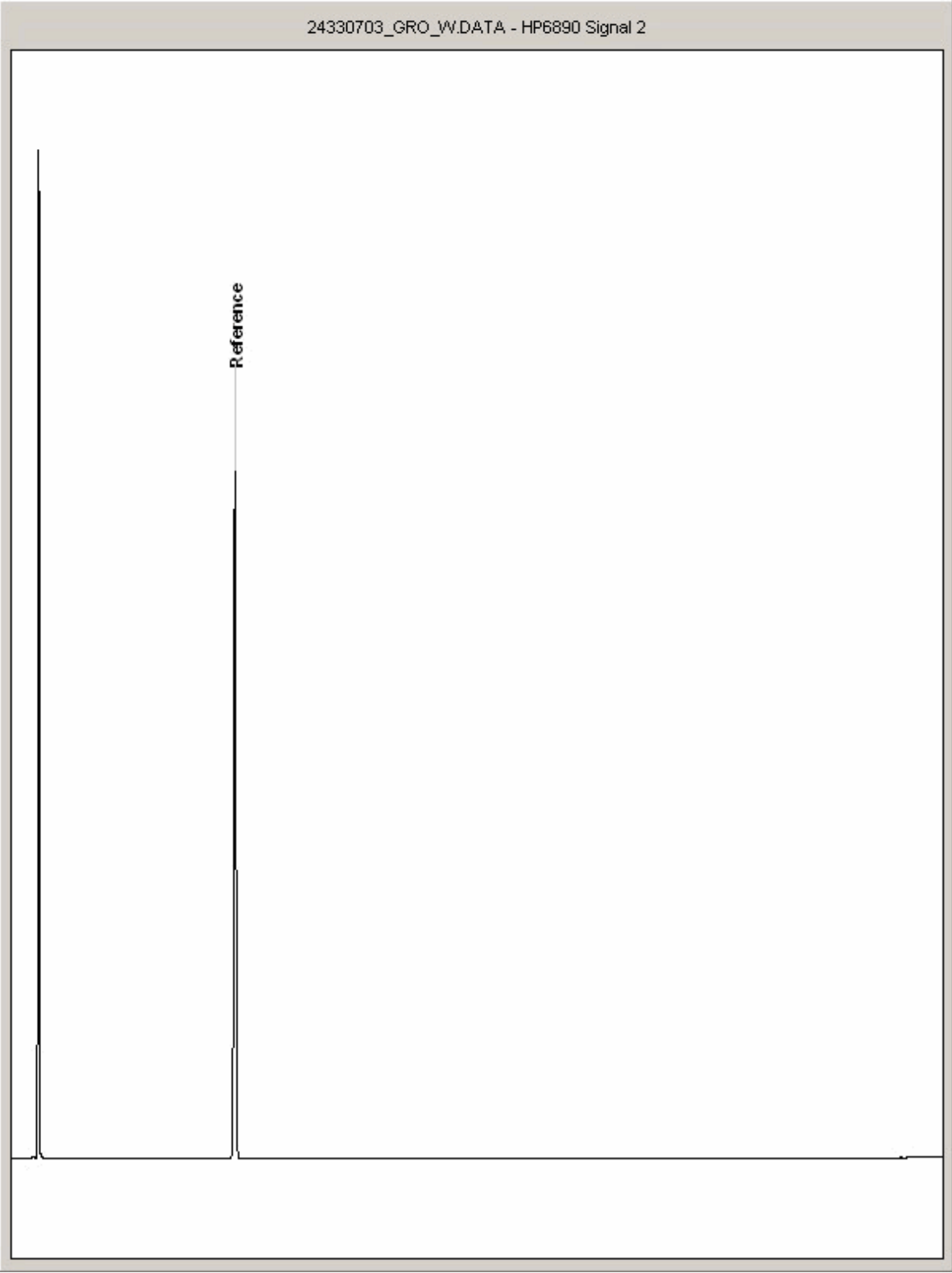
CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330703 Depth : 7.00
Sample ID : BH-OBC-06



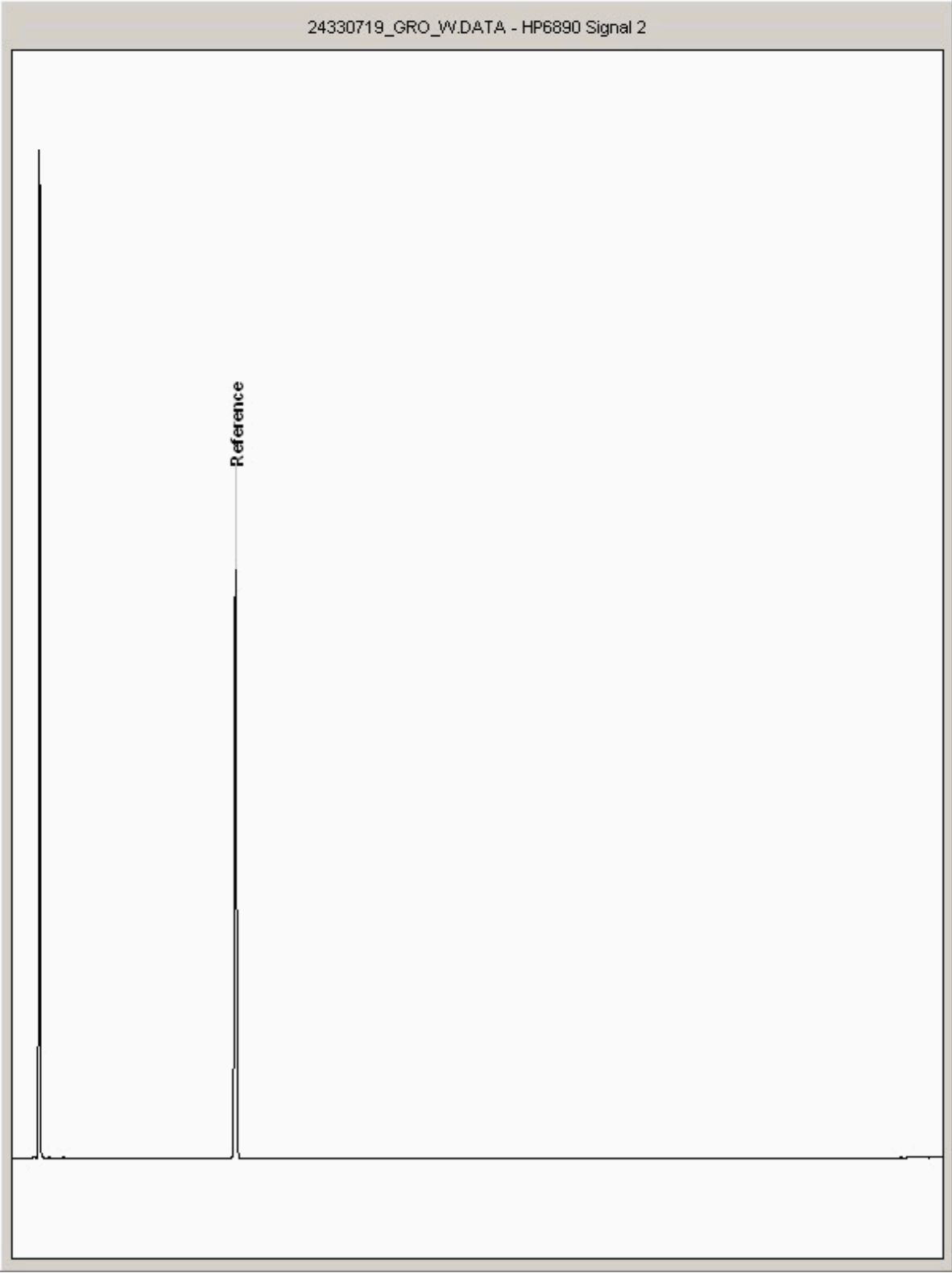
CERTIFICATE OF ANALYSIS

Validated

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330719 Depth : 27.00
Sample ID : BH-OBC-15





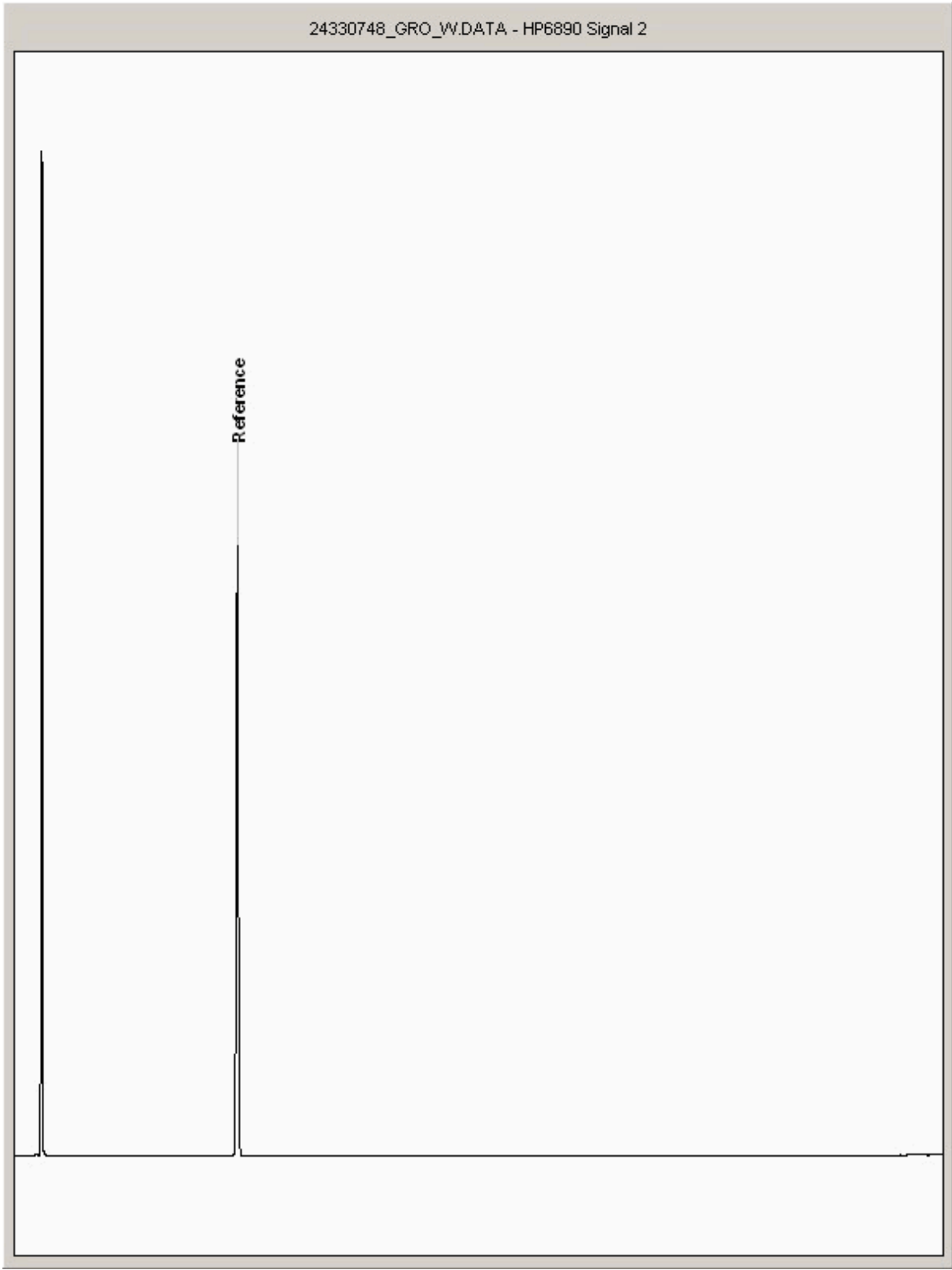
CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330748 Depth : 9.00
Sample ID : BH-TH-01



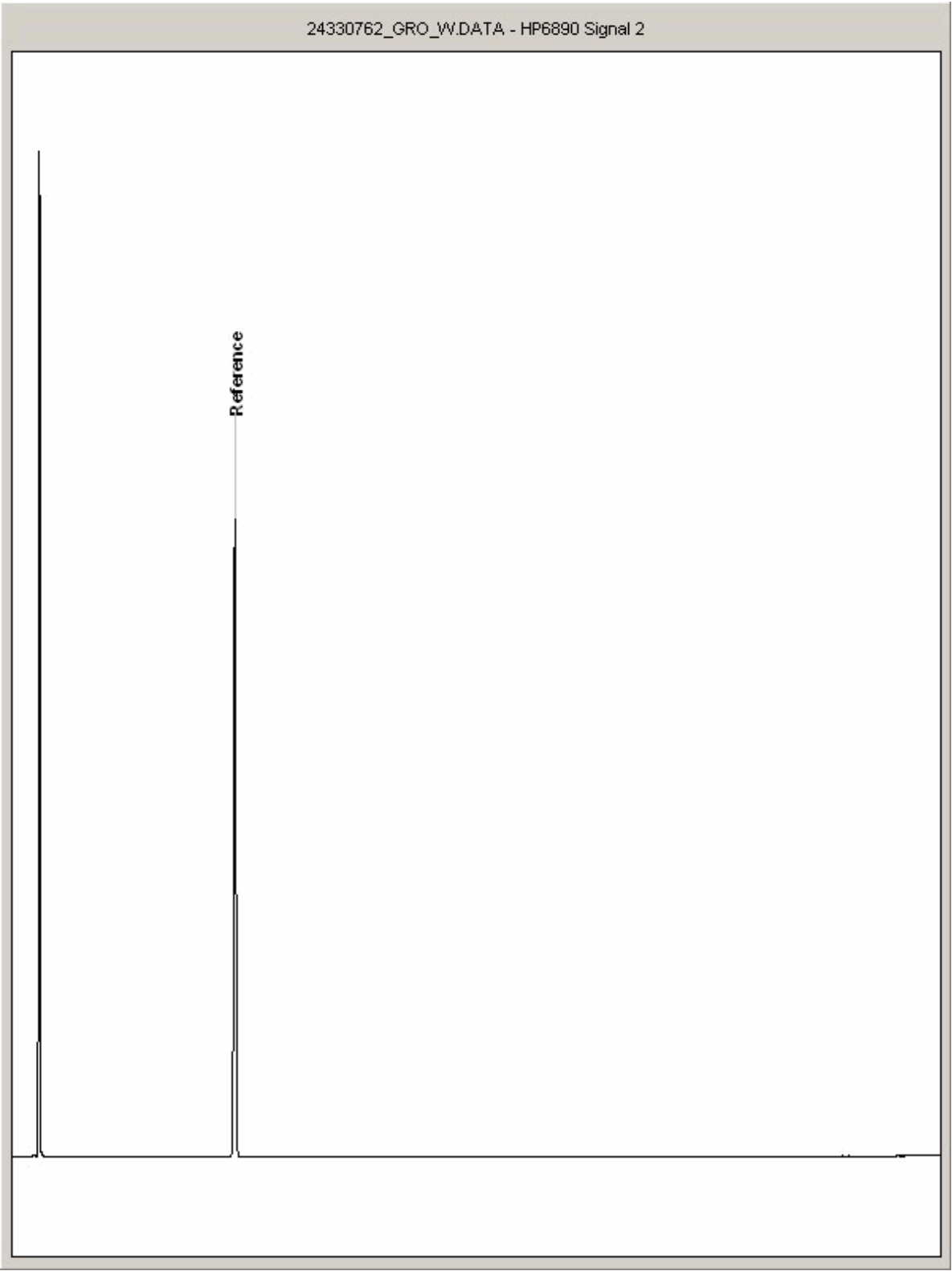
CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330762 Depth : 6.50
Sample ID : BH-OBC-07 (S)





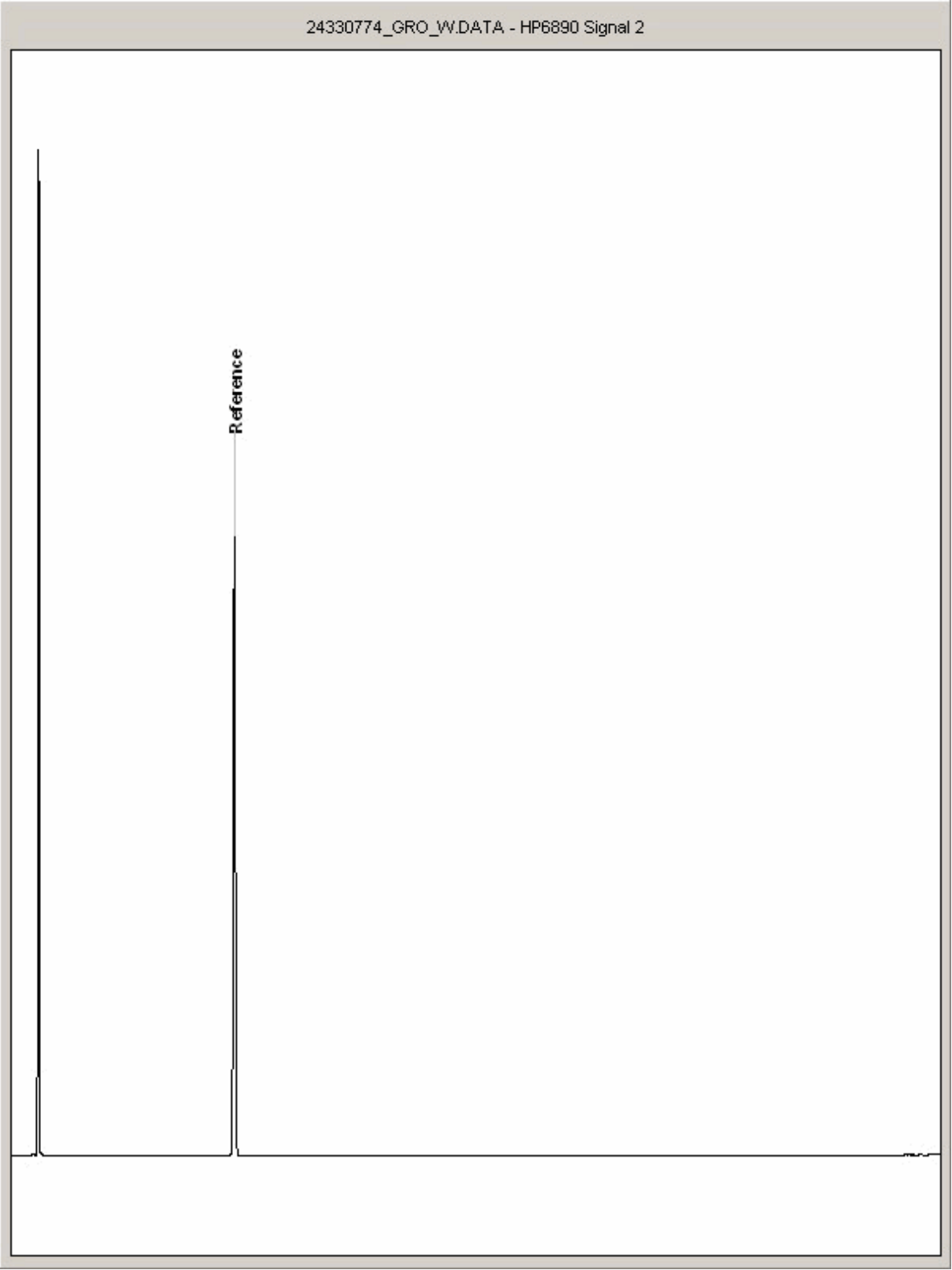
CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330774 Depth : 16.00
Sample ID : BH-OBC-04 (D)



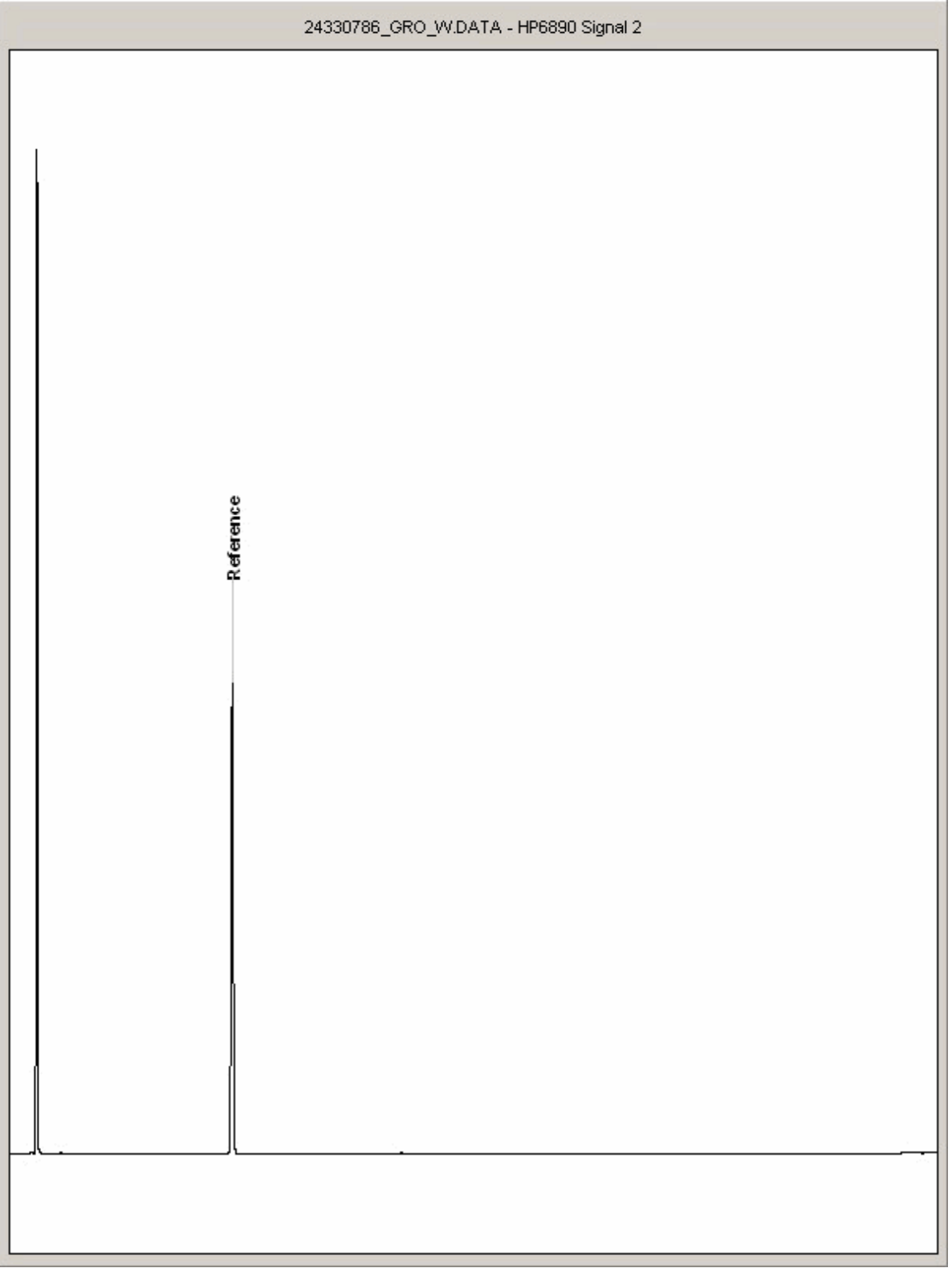
CERTIFICATE OF ANALYSIS

Validated

SDG: 210520-119 Client Reference: B025563 Report Number: 600017
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24330786 Depth : 24.50
Sample ID : BH-OBC-07 (D)





CERTIFICATE OF ANALYSIS

SDG:	210520-119	Client Reference:	B025563	Report Number:	600017
Location:	bridge South East Transport - Ph	Order Number:	7000964	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

General

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2007).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Tetra Tech Europe
3 Sovereign Square
Leeds
West Yorkshire
LS1 4ER

Attention: Richard Tonge

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)

Hawarden

Deeside

CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

CERTIFICATE OF ANALYSIS

Date of report Generation:

06 June 2021

Customer:

Tetra Tech Europe

Sample Delivery Group (SDG):

210525-13

Your Reference:

B025563

Location:

Cambridge South East Transport - Phase 2

Report No:

600807

We received 12 samples on Monday May 24, 2021 and 11 of these samples were scheduled for analysis which was completed on Sunday June 06, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager



1291

ALS Life Sciences Limited. ALS Life Sciences Limited registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

Version: 2.8

Version Issued: 06/06/2021



CERTIFICATE OF ANALYSIS

Validated

SDG: 210525-13 Client Reference: B025563 Report Number: 600807
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24334066	BH-PTR-04	EW08	2.50	19/05/2021
24334067	BH-PTR-04	EW	7.00	19/05/2021
24334056	BH-PTR-07	EW01	7.00	19/05/2021
24334058	BH-PTR-10	EW03	3.00	19/05/2021
24334061	BH-PTR-12	EW02	8.50	19/05/2021
24334057	BH-PTR-13	EW04	4.00	19/05/2021
24334804	BH-PTR-14	EW05	7.50	19/05/2021
24334063	BH-PTR-03 (A)	EW11	4.90	19/05/2021
24334065	BH-PTR-02 (D)	EW09	5.30	19/05/2021
24334060	BH-PTR-08 (D)	EW06	11.50	19/05/2021
24334064	BH-PTR-02 (S)	EW10	1.70	19/05/2021
24334062	BH-PTR-08 (S)	EW07	1.30	19/05/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 210525-13 Client Reference: B025563 Report Number: 600807
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Results Legend			24334061														
<div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div>			24334066														
Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other			24334056														
Lab Sample No(s)			24334066														
Customer Sample Reference			BH-PTR-04														
AGS Reference			EW08														
Depth (m)			2.50														
Container			0.5l glass bottle (ALE227)	500ml Plastic (ALE208)	H2SO4 (ALE244)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	500ml Plastic (ALE208)	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	HNO3 Unfiltered (ALE204)	NaOH (ALE245)	Vial (ALE297)	0.5l glass bottle (ALE227)	500ml Plastic (ALE208)
Sample Type			GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
Alkalinity as CaCO3	All	NDPs: 0 Tests: 11		X						X						X	
Ammonium Low	All	NDPs: 0 Tests: 11			X						X					X	
Anions by Kone (w)	All	NDPs: 0 Tests: 11		X						X						X	
Chromium III	All	NDPs: 0 Tests: 11		X								X				X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 11		X							X					X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 11	X						X						X		X
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 11	X						X						X		X
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 11	X						X						X		X
Fluoride	All	NDPs: 0 Tests: 11		X						X						X	
GRO by GC-FID (W)	All	NDPs: 0 Tests: 11						X							X		X
Low Level Cyanide (W)	All	NDPs: 0 Tests: 11				X								X		X	
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 11		X						X					X		
Mercury Dissolved	All	NDPs: 0 Tests: 11		X								X			X		
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 11	X						X						X		X
pH Value	All	NDPs: 0 Tests: 11		X						X					X		



CERTIFICATE OF ANALYSIS

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Sample Types -														
X	Test																
N	No Determination Possible																
Lab Sample No(s)			Customer Sample Reference			AGS Reference			Depth (m)			Container			Sample Type		
24334061			BH-PTR-12			EWM2			8.50			0.5l glass bottle (ALE227)			GW		
24334058			BH-PTR-10			EWM3			3.00			Vial (ALE297)			GW		
24334056			BH-PTR-07			EWM1			7.00			Vial (ALE297)			GW		
24334066			BH-PTR-04			EWM8			2.50			Vial (ALE297)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE208)			GW		
												0.5l glass bottle (ALE227)			GW		
												Vial (ALE297)			GW		
												NaOH (ALE245)			GW		
												HNO3 Unfiltered (ALE204)			GW		
												HNO3 Filtered (ALE204)			GW		
												H2SO4 (ALE244)			GW		
												500ml Plastic (ALE20					

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CERTIFICATE OF ANALYSIS

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend

X Test

N No Determination Possible

Sample Types -
 S - Soil/Solid
 UNS - Unspecified Solid
 GW - Ground Water
 SW - Surface Water
 LE - Land Leachate
 PL - Prepared Leachate
 PR - Process Water
 SA - Saline Water
 TE - Trade Effluent
 TS - Treated Sewage
 US - Untreated Sewage
 RE - Recreational Water
 DW - Drinking Water Non-regulatory
 UNL - Unspecified Liquid
 SL - Sludge
 G - Gas
 OTH - Other

Parameter	Matrix	NDPs: 0 Tests: 11	1	2	3	4	5	6	7	8	9	10	11
Alkalinity as CaCO3	All	NDPs: 0 Tests: 11	X				X				X		
Ammonium Low	All	NDPs: 0 Tests: 11		X			X				X		
Anions by Kone (w)	All	NDPs: 0 Tests: 11	X				X				X		
Chromium III	All	NDPs: 0 Tests: 11	X					X				X	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 11	X					X				X	
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 11	X				X				X		X
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 11	X				X				X		X
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 11	X				X				X		X
Fluoride	All	NDPs: 0 Tests: 11	X				X				X		
GRO by GC-FID (W)	All	NDPs: 0 Tests: 11				X				X			X
Low Level Cyanide (W)	All	NDPs: 0 Tests: 11				X				X			X
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 11	X				X				X		
Mercury Dissolved	All	NDPs: 0 Tests: 11	X				X				X		
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 11	X				X				X		X
pH Value	All	NDPs: 0 Tests: 11	X				X				X		

24334804	BH-PTR-14	EW05	7.50	Vial (ALE297)	GW						X
				NaOH (ALE245)	GW						
				HNO3 Unfiltered (ALE204)	GW						
				HNO3 Filtered (ALE204)	GW					X	
				H2SO4 (ALE244)	GW	X					
				500ml Plastic (ALE208)	GW			X			
				0.5l glass bottle (ALE227)	GW					X	
24334057	BH-PTR-13	EW04	4.00	Vial (ALE297)	GW						X
				NaOH (ALE245)	GW						
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW	X					
				500ml Plastic (ALE208)	GW		X				
				0.5l glass bottle (ALE227)	GW			X			
24334061	BH-PTR-12	EW02	8.50	Vial (ALE297)	GW					X	
				NaOH (ALE245)	GW						X
				HNO3 Unfiltered (ALE204)	GW				X		
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW	X					
				500ml Plastic (ALE208)	GW						



Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

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Results Legend			Customer Sample Ref.		BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12	BH-PTR-13	BH-PTR-14			
# M aq diss.filt tot.unfilt *	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) 1-4456	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334066 EW08	7.00 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334066 EW01	3.00 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334068 EW03	8.50 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334061 EW02	4.00 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334057 EW04	7.50 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334804 EW05					
Component	LOD/Units	Method											
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	3250		10700		3400		550		900		1520
Carbon, Organic (diss.filt)	<3 mg/l	TM090	10.4		<3		3.16		3.37		3.2		<3
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.097 #		0.069 #		0.036 #		0.015 #		0.04 #		0.019 #
Fluoride	<0.5 mg/l	TM104	<0.5 #		<0.5 #		<0.5 #		<0.5 #		<0.5 #		<0.5 #
Dissolved solids, Total (meter)	<5 mg/l	TM123	462 #		350 #		628 #		755 #		662 #		579 #
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003		<0.003		<0.003		<0.003		<0.003		<0.003
Antimony (diss.filt)	<1 µg/l	TM152	<1 2 #		<1 #		<1 #		<1 #		<1 #		<1 #
Arsenic (diss.filt)	<0.5 µg/l	TM152	2.26 2 #		2.14 #		<0.5 #		<0.5 #		<0.5 #		<0.5 #
Barium (diss.filt)	<0.2 µg/l	TM152	28 2 #		75.5 #		69.1 #		65.5 #		68.1 #		70.9 #
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 2 #		<0.1 #		<0.1 #		<0.1 #		<0.1 #		<0.1 #
Boron (diss.filt)	<10 µg/l	TM152	17.2 2 #		18.5 #		43.2 #		12.8 #		12.5 #		18.8 #
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 2 #		<0.08 #		<0.08 #		<0.08 #		<0.08 #		<0.08 #
Chromium (diss.filt)	<1 µg/l	TM152	<1 2 #		2.45 #		1.17 #		<1 #		<1 #		1.58 #
Copper (diss.filt)	<0.3 µg/l	TM152	14.2 2 #		5.54 #		4.58 #		1.21 #		0.971 #		1.87 #
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 2 #		4.39 #		1.53 #		0.437 #		<0.2 #		1.81 #
Manganese (diss.filt)	<3 µg/l	TM152	3.75 2 #		404 #		103 #		10.9 #		6.47 #		136 #
Molybdenum (diss.filt)	<3 µg/l	TM152	<3 2 #		<3 #		<3 #		<3 #		<3 #		<3 #
Nickel (diss.filt)	<0.4 µg/l	TM152	2.41 2 #		7.52 #		4.57 #		1.97 #		1.5 #		2.6 #
Selenium (diss.filt)	<1 µg/l	TM152	6.49 2 #		<1 #		3.27 #		1.94 #		2.62 #		<1 #
Vanadium (diss.filt)	<1 µg/l	TM152	2 2 #		1.52 #		<1 #		<1 #		<1 #		<1 #
Zinc (diss.filt)	<1 µg/l	TM152	1.48 2 #		15.4 #		18.3 #		11.6 #		12.2 #		18.7 #
Sodium (Dis.Filt)	<0.076 mg/l	TM152	117 2 #		14.8 #		20 #		26 #		32.5 #		18 #
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	3.56 2 #		9.39 #		4.89 #		5.05 #		5.32 #		5.8 #
Calcium (Dis.Filt)	<0.2 mg/l	TM152	22.4 2 #		233 #		209 #		180 #		154 #		210 #
Iron (Dis.Filt)	<0.019 mg/l	TM152	0.0538 2 #		1.42 #		0.343 #		0.0388 #		<0.019 #		0.346 #
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	1990		8450		4880		769		1150 2		1460
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 2 #		<0.01 #		<0.01 #		<0.01 #		<0.01 #		<0.01 #
Sulphate	<2 mg/l	TM184	82.4 #		38.1 #		94.3 #		133 #		76.1 #		71.9 #
Chloride	<2 mg/l	TM184	19.6 #		17 #		54.8 #		84.8 #		64.4 #		46 #
Nitrate as NO3	<0.3 mg/l	TM184	0.309		<0.3		57.6		76.6		87.6		73.5
Sulphur Dissolved	<1 mg/l	TM228	23.8		11.4		27.2		37		21.8		21
pH	<1 pH Units	TM256	8.13 #		7.8 #		7.46 #		7.74 #		7.65 #		7.51 #

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

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CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Customer Sample Ref.		BH-PTR-03 (A)		BH-PTR-02 (D)		BH-PTR-08 (D)		BH-PTR-02 (S)		BH-PTR-08 (S)	
# M aq diss.filt tot.unfilt + * ** (F) 1-4#&@	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery Trigger breach confirmed Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time SDG Ref Lab Sample No.(s) AGS Reference	4.90 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334063 EW11	5.30 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334065 EW09	11.50 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334060 EW06	1.70 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334064 EW10	1.30 Ground Water (GW) 19/05/2021 24/05/2021 210525-13 24334062 EW07							
Component	LOD/Units	Method												
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	2000		1050		5000		650		700			
Carbon, Organic (diss.filt)	<3 mg/l	TM090	4.09		6.86		3.08		7.71		4.93			
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.029	#	0.036	#	0.153	#	0.075	#	0.135	#		
Fluoride	<0.5 mg/l	TM104	<0.5	#	<0.5	#	<0.5	#	<0.5	#	<0.5	#		
Dissolved solids, Total (meter)	<5 mg/l	TM123	753	#	721	#	431	#	777	#	571	#		
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003		<0.003		<0.003		<0.003		<0.003			
Antimony (diss.filt)	<1 µg/l	TM152	<1	2 #	<1	#	<1	#	<1	#	<1	#		
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5	2 #	<0.5	#	1.22	#	0.686	#	0.674	#		
Barium (diss.filt)	<0.2 µg/l	TM152	75	2 #	95.7	#	68.7	#	73.1	#	62.2	#		
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1	2 #	<0.1	#	<0.1	#	<0.1	#	<0.1	#		
Boron (diss.filt)	<10 µg/l	TM152	20.8	2 #	113	#	27.5	#	157	#	54.6	#		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08	2 #	<0.08	#	<0.08	#	<0.08	#	<0.08	#		
Chromium (diss.filt)	<1 µg/l	TM152	<1	2 #	<1	#	<1	#	<1	#	1.39	#		
Copper (diss.filt)	<0.3 µg/l	TM152	0.462	2 #	2.31	#	0.861	#	7.8	#	12.3	#		
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2	2 #	<0.2	#	0.629	#	2.73	#	0.729	#		
Manganese (diss.filt)	<3 µg/l	TM152	3.34	2 #	30.2	#	63.5	#	265	#	22.6	#		
Molybdenum (diss.filt)	<3 µg/l	TM152	<3	2 #	<3	#	<3	#	<3	#	<3	#		
Nickel (diss.filt)	<0.4 µg/l	TM152	1.74	2 #	5.36	#	2.22	#	5.52	#	4.61	#		
Selenium (diss.filt)	<1 µg/l	TM152	1.67	2 #	1.98	#	<1	#	2.1	#	18.7	#		
Vanadium (diss.filt)	<1 µg/l	TM152	<1	2 #	<1	#	<1	#	1.15	#	<1	#		
Zinc (diss.filt)	<1 µg/l	TM152	1.38	2 #	27	#	13	#	59.7	#	27.1	#		
Sodium (Dis.Filt)	<0.076 mg/l	TM152	41.8	2 #	31.8	#	17.9	#	35.6	#	69	#		
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	10.9	2 #	12.7	#	8.95	#	12	#	5.9	#		
Calcium (Dis.Filt)	<0.2 mg/l	TM152	175	2 #	183	#	107	#	238	#	108	#		
Iron (Dis.Filt)	<0.019 mg/l	TM152	<0.019	2 #	0.0222	#	0.206	#	0.58	#	0.0805	#		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	2190		2470		9820		1090		5300			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	2 #	<0.01	#	<0.01	#	<0.01	#	<0.01	#		
Sulphate	<2 mg/l	TM184	264	#	168	#	43.2	#	143	#	86	#		
Chloride	<2 mg/l	TM184	46.9	#	44.6	#	27.3	#	42.9	#	34.5	#		
Nitrate as NO3	<0.3 mg/l	TM184	15.3		5.32		0.667		1.37		22.5			
Sulphur Dissolved	<1 mg/l	TM228	79.5		50.1		13		44		25.3			
pH	<1 pH Units	TM256	7.62	#	7.37	#	7.7	#	7.38	#	7.68	#		

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12	BH-PTR-13	BH-PTR-14
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.50	7.00	3.00	8.50	4.00	7.50
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021
dis.filt	Dissolved / filtered sample.			-	-	00:00:00	-	-	-
tot.unfilt	Total / unfiltered sample.			24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021
+	Subcontracted - refer to subcontractor report for accreditation status.			210525-13	210525-13	210525-13	210525-13	210525-13	210525-13
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			24334066	24334056	24334058	24334061	24334057	24334804
(F)	Trigger breach confirmed			EW08	EW01	EW03	EW02	EW04	EW05
1-4+5+6	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	112	117	111	116	115	117	
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #	<50 #	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Benzene	<7 µg/l	TM245	<7 #	<7 #	<7 #	<7 #	<7 #	<7 #	
Toluene	<4 µg/l	TM245	<4 #	<4 #	<4 #	<4 #	<4 #	<4 #	
Ethylbenzene	<5 µg/l	TM245	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	
m,p-Xylene	<8 µg/l	TM245	<8 #	<8 #	<8 #	<8 #	<8 #	<8 #	
o-Xylene	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	<11	
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	<28	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	49	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	43	<10	<10	<10	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	974	42	<10	13	<10	<10	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	1070	42	<10	13	<10	<10	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	98	<10	<10	<10	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	98	<10	<10	<10	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	1160	42	<10	13	<10	<10	
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	1020	42	<10	13	<10	<10	



CERTIFICATE OF ANALYSIS

SDG: 210525-13

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600807

Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample Ref.	BH-PTR-03 (A)	BH-PTR-02 (D)	BH-PTR-08 (D)	BH-PTR-02 (S)	BH-PTR-08 (S)	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.90	5.30	11.50	1.70	1.30	
M	mCERTS accredited.		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	
aq	Aqueous / settled sample.		19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021	
dis.filt	Dissolved / filtered sample.		24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021	
tot.unfilt	Total / unfiltered sample.		210525-13	210525-13	210525-13	210525-13	210525-13	
*	Subcontracted - refer to subcontractor report for accreditation status.		24334063	24334065	24334060	24334064	24334062	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		EW11	EW09	EW06	EW10	EW07	
(F)	Trigger breach confirmed							
1-445@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM245	114	112	118	109	111	
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	<50	<50	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	<4	
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	<5	
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	<8	
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	<3	
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	15	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	64	14	77	<10	27	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	64	14	92	<10	27	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	36	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	36	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	64	14	128	<10	27	
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	64	14	92	<10	27	



CERTIFICATE OF ANALYSIS

SDG: 210525-13

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600807

Superseded Report:

VOC MS (W)

Results Legend		Customer Sample Ref.	BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12	BH-PTR-13	BH-PTR-14
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50	7.00	3.00	8.50	4.00	7.50
M	mCERTS accredited.		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.		19/05/2021	19/05/2021	19/05/2021 00:00:00	19/05/2021	19/05/2021	19/05/2021
dis.filt	Dissolved / filtered sample.		24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021
tot.unfilt	Total / unfiltered sample.		210525-13	210525-13	210525-13	210525-13	210525-13	210525-13
*	Subcontracted - refer to subcontractor report for accreditation status.		24334066	24334056	24334058	24334061	24334057	24334804
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		EW08	EW01	EW03	EW02	EW04	EW05
(F)	Trigger breach confirmed							
1-445@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM208	119	112	115	119	117	118
Toluene-d8**	%	TM208	101	101	99.9	101	101	101
4-Bromofluorobenzene**	%	TM208	96.3	96.7	97.1	98.4	96	96.9
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1

CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

# M aq diss.filt tot.unfilt + " (F) 1-4+5@	Results Legend		Customer Sample Ref.	BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12	BH-PTR-13	BH-PTR-14
	ISO17025 accredited. mCERTS accredited.			2.50	7.00	3.00	8.50	4.00	7.50
	Aqueous / settled sample.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
	Dissolved / filtered sample.			19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021
	Total / unfiltered sample.			.	.	00:00:00	.	.	.
	Subcontracted - refer to subcontractor report for accreditation status.			24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021	24/05/2021
% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		210525-13	210525-13	210525-13	210525-13	210525-13	210525-13	210525-13	
Trigger breach confirmed		24334066	24334056	24334058	24334061	24334057	24334804	24334804	
Sample deviation (see appendix)		EW08	EW01	EW03	EW02	EW04	EW05		
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]

		Validated												Validated												
SDG:		210525-13		Client Reference:		B025563		Report Number:		600807		SDG:		210525-13		Client Reference:		B025563		Report Number:		600807				
Location:		Cambridge South East Tra		Order Number:		7000964		Superseded Report:				Location:		Cambridge South East Tra		Order Number:		7000964		Superseded Report:						
VOC MS (W)																										
Results Legend			Customer Sample Ref.	BH-PTR-03 (A)	BH-PTR-02 (D)	BH-PTR-08 (D)	BH-PTR-02 (S)	BH-PTR-08 (S)																		
#	ISO17025 accredited.																									
M	mCERTS accredited.																									
aq	Aqueous / settled sample.																									
diss.filt	Dissolved / filtered sample.																									
tot.unfilt	Total / unfiltered sample.																									
*	Subcontracted - refer to subcontractor report for accreditation status.																									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery																									
(F)	Trigger breach confirmed																									
1.44@	Sample deviation (see appendix)																									
Depth (m)			Sample Type			Date Sampled			Sampled Time			Date Received			SDG Ref			Lab Sample No.(s)			AGS Reference					
4.90			Ground Water (GW)			19/05/2021			4.90			Ground Water (GW)			19/05/2021			4.90			Ground Water (GW)			19/05/2021		
5.30			Ground Water (GW)			19/05/2021			5.30			Ground Water (GW)			19/05/2021			5.30			Ground Water (GW)			19/05/2021		
11.50			Ground Water (GW)			19/05/2021			11.50			Ground Water (GW)			19/05/2021			11.50			Ground Water (GW)			19/05/2021		
1.70			Ground Water (GW)			19/05/2021			1.70			Ground Water (GW)			19/05/2021			1.70			Ground Water (GW)			19/05/2021		
1.30			Ground Water (GW)			19/05/2021			1.30			Ground Water (GW)			19/05/2021			1.30			Ground Water (GW)			19/05/2021		
24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021		
210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13		
24334063			24334063			24334063			24334063			24334063			24334063			24334063			24334063			24334063		
EW11			EW09			EW06			EW10			EW07			EW06			EW10			EW07			EW07		
Component			LOD/Units			Method																				
Dibromofluoromethane**			%			TM208			119			121			116			119			118					
Toluene-d8**			%			TM208			101			101			100			101			100					
4-Bromofluorobenzene**			%			TM208			96.5			96.1			95.9			97.1			97.3					
Dichlorodifluoromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Chloromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Vinyl chloride			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Bromomethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Chloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Trichlorofluoromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1-Dichloroethene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Carbon disulphide			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Dichloromethane			<3 µg/l			TM208			<3 #			<3 #			<3 #			<3 #			<3 #					
Methyl tertiary butyl ether (MTBE)			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
trans-1,2-Dichloroethene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1-Dichloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
cis-1,2-Dichloroethene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
2,2-Dichloropropane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Bromochloromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Chloroform			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1,1-Trichloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1-Dichloropropene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Carbontetrachloride			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,2-Dichloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Benzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Trichloroethene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,2-Dichloropropane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Dibromomethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Bromodichloromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
cis-1,3-Dichloropropene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Toluene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
trans-1,3-Dichloropropene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1,2-Trichloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
VOC MS (W)																										
Results Legend			Customer Sample Ref.	BH-PTR-03 (A)	BH-PTR-02 (D)	BH-PTR-08 (D)	BH-PTR-02 (S)	BH-PTR-08 (S)																		
#	ISO17025 accredited.																									
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aq	Aqueous / settled sample.																									
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*	Subcontracted - refer to subcontractor report for accreditation status.																									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery																									
(F)	Trigger breach confirmed																									
1.44@	Sample deviation (see appendix)																									
Depth (m)			Sample Type			Date Sampled			Sampled Time			Date Received			SDG Ref			Lab Sample No.(s)			AGS Reference					
4.90			Ground Water (GW)			19/05/2021			4.90			Ground Water (GW)			19/05/2021			4.90			Ground Water (GW)			19/05/2021		
5.30			Ground Water (GW)			19/05/2021			5.30			Ground Water (GW)			19/05/2021			5.30			Ground Water (GW)			19/05/2021		
11.50			Ground Water (GW)			19/05/2021			11.50			Ground Water (GW)			19/05/2021			11.50			Ground Water (GW)			19/05/2021		
1.70			Ground Water (GW)			19/05/2021			1.70			Ground Water (GW)			19/05/2021			1.70			Ground Water (GW)			19/05/2021		
1.30			Ground Water (GW)			19/05/2021			1.30			Ground Water (GW)			19/05/2021			1.30			Ground Water (GW)			19/05/2021		
24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021			24/05/2021		
210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13			210525-13		
24334063			24334063			24334063			24334063			24334063			24334063			24334063			24334063			24334063		
EW11			EW09			EW06			EW10			EW07			EW06			EW10			EW07			EW07		
Component			LOD/Units			Method																				
1,3-Dichloropropane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Tetrachloroethene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Dibromochloromethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,2-Dibromoethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Chlorobenzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1,1,2-Tetrachloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Ethylbenzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
m,p-Xylene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
o-Xylene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Styrene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Bromoform			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Isopropylbenzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,1,2,2-Tetrachloroethane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,2,3-Trichloropropane			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Bromobenzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
Propylbenzene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
2-Chlorotoluene			<1 µg/l			TM208			<1 #			<1 #			<1 #			<1 #			<1 #					
1,3,5-Trimethylbenzene			<1 µg/l			TM208			<1 #			<1 #														

ALS

CERTIFICATE OF ANALYSIS

Validated

SDG: 210525-13

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600807

Superseded Report:

Test Completion Dates

Lab Sample No(s)

Customer Sample Ref.

AGS Ref.

Depth

Type

24334066

BH-PTR-04

EW08

2.50

Ground Water

24334056

BH-PTR-07

EW01

7.00

Ground Water

24334058

BH-PTR-10

EW03

3.00

Ground Water

24334061

BH-PTR-12

EW02

8.50

Ground Water

24334057

BH-PTR-13

EW04

4.00

Ground Water

24334804

BH-PTR-14

EW05

7.50

Ground Water

24334063

BH-PTR-03 (A)

EW11

4.90

Ground Water

24334065

BH-PTR-02 (D)

EW09

5.30

Ground Water

24334060

BH-PTR-08 (D)

EW06

11.50

Ground Water

24334064

BH-PTR-02 (S)

EW10

1.70

Ground Water

Alkalinity as CaCO3

Ammonium Low

Anions by Kone (w)

Chromium III

Dissolved Metals by ICP-MS

Dissolved Organic/Inorganic Carbon

EPH CWG (Aliphatic) Aqueous GC (W)

EPH CWG (Aromatic) Aqueous GC (W)

Fluoride

GRO by GC-FID (W)

Low Level Cyanide (W)

Low Level Hexavalent Chromium (w)

Mercury Dissolved

Nitrite by Kone (w)

PAH Spec MS - Aqueous (W)

pH Value

Phenols by HPLC (W)

Sulphur Dissolved by ICP-OES

Total Dissolved Solids

Total Metals by ICP-MS

TPH CWG (W)

VOC MS (W)

24334058

BH-PTR-10.

EW03

3.00

Ground Water

27-May-2021

27-May-2021

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ASSOCIATED AQC DATA

Alkalinity as CaCO3

Component	Method Code	QC 2482	QC 2476	QC 2409	QC 2447
Total Alkalinity as CaCO3	TM043	103.54 96.40 : 105.98	98.48 96.40 : 105.98	101.01 96.40 : 105.98	101.01 96.40 : 105.98

Ammonium Low

Component	Method Code	QC 2462	QC 2423
Ammoniacal Nitrogen as N	TM099	97.2 96.04 : 106.80	98.2 94.00 : 106.00

Anions by Kone (w)

Component	Method Code	QC 2488	QC 2447
Chloride	TM184	106.0 92.93 : 115.43	95.1 91.40 : 109.10
Sulphate (soluble)	TM184	104.8 90.53 : 113.03	101.2 91.99 : 109.30
TON as NO3	TM184	106.5 99.60 : 111.90	101.5 90.35 : 108.35

Dissolved Metals by ICP-MS

Component	Method Code	QC 2442	QC 2450	QC 2436
Aluminium	TM152	100.67 94.21 : 111.52	98.33 94.21 : 111.52	103.0 94.21 : 111.52
Antimony	TM152	106.83 88.37 : 130.57	106.83 88.37 : 130.57	107.0 88.37 : 130.57
Arsenic	TM152	102.83 92.62 : 113.52	103.5 92.62 : 113.52	102.5 92.62 : 113.52
Barium	TM152	101.33 88.62 : 113.14	100.83 88.62 : 113.14	100.17 88.62 : 113.14
Beryllium	TM152	102.17 87.08 : 111.38	101.33 87.08 : 111.38	105.0 87.08 : 111.38
Bismuth	TM152	103.0 92.62 : 115.02	102.67 92.62 : 115.02	104.5 92.62 : 115.02
Boron	TM152	102.33 86.31 : 120.88	99.67 86.31 : 120.88	109.0 86.31 : 120.88
Cadmium	TM152	98.0 93.85 : 111.65	96.83 93.85 : 111.65	97.83 93.85 : 111.65
Calcium	TM152	100.67 89.20 : 126.91	100.67 89.20 : 126.91	100.0 89.20 : 126.91
Chromium	TM152	100.33 92.50 : 113.03	100.17 92.50 : 113.03	99.5 92.50 : 113.03
Cobalt	TM152	103.83 85.01 : 114.87	103.83 85.01 : 114.87	102.5 85.01 : 114.87
Copper	TM152	103.5 89.87 : 119.73	103.67 89.87 : 119.73	102.17 89.87 : 119.73

Dissolved Metals by ICP-MS

		QC 2442	QC 2450	QC 2436
Iron	TM152	102.67 93.02 : 113.86	102.67 93.02 : 113.86	102.0 93.02 : 113.86
Lead	TM152	97.17 91.11 : 116.98	97.0 91.11 : 116.98	98.5 91.11 : 116.98
Lithium	TM152	99.5 87.70 : 115.90	96.17 87.70 : 115.90	101.17 87.70 : 115.90
Magnesium	TM152	97.33 89.60 : 116.61	96.0 89.60 : 116.61	96.67 89.60 : 116.61
Manganese	TM152	105.33 93.97 : 112.46	102.67 93.97 : 112.46	104.0 93.97 : 112.46
Molybdenum	TM152	97.67 89.07 : 110.96	97.33 89.07 : 110.96	97.83 89.07 : 110.96
Nickel	TM152	102.17 93.70 : 112.15	102.0 93.70 : 112.15	101.33 93.70 : 112.15
Phosphorus	TM152	97.33 89.24 : 114.18	97.5 89.24 : 114.18	95.83 89.24 : 114.18
Potassium	TM152	100.67 93.20 : 115.55	101.33 93.20 : 115.55	99.33 93.20 : 115.55
Selenium	TM152	98.83 91.69 : 117.12	96.0 91.69 : 117.12	97.17 91.69 : 117.12
Silver	TM152	103.0 90.93 : 121.73	102.67 90.93 : 121.73	103.33 90.93 : 121.73
Sodium	TM152	98.67 92.42 : 113.24	96.0 92.42 : 113.24	96.67 92.42 : 113.24
Strontium	TM152	103.0 92.14 : 116.24	103.67 92.14 : 116.24	105.0 92.14 : 116.24
Tellurium	TM152	99.33 89.88 : 111.78	98.67 89.88 : 111.78	100.17 89.88 : 111.78
Thallium	TM152	87.5 82.43 : 113.83	86.5 82.43 : 113.83	89.33 82.43 : 113.83
Tin	TM152	103.0 94.62 : 107.79	103.17 94.62 : 107.79	103.0 94.62 : 107.79
Titanium	TM152	105.33 90.29 : 115.23	102.5 90.29 : 115.23	107.17 90.29 : 115.23
Tungsten	TM152	99.67 77.61 : 132.31	98.33 77.61 : 132.31	101.0 77.61 : 132.31
Uranium	TM152	97.67 86.97 : 115.76	96.17 86.97 : 115.76	99.17 86.97 : 115.76
Vanadium	TM152	103.5 89.61 : 115.48	102.0 89.61 : 115.48	101.17 89.61 : 115.48
Zinc	TM152	101.0 87.51 : 116.26	101.0 87.51 : 116.26	100.67 87.51 : 116.26

Dissolved Organic/Inorganic Carbon

Component	Method Code	QC 2435	QC 2455	QC 2434	QC 2450
Dissolved Inorganic Carbon	TM090	106.17 93.58 : 112.28	98.83 93.58 : 112.28	107.83 93.58 : 112.28	122.5 93.58 : 112.28
Dissolved Organic Carbon	TM090	102.17 96.13 : 109.53	101.83 96.13 : 109.53	102.17 96.13 : 109.53	102.67 96.13 : 109.53

EPH CWG (Aliphatic) Aqueous GC (W)

EPH CWG (Aliphatic) Aqueous GC (W)				
Component	Method Code	QC 2484	QC 2482	QC 2467
Total Aliphatics >C10-C40	TM174	94.55 65.58 : 141.57	99.67 68.59 : 134.82	106.27 69.79 : 134.39

EPH CWG (Aromatic) Aqueous GC (W)				
Component	Method Code	QC 2487	QC 2489	QC 2479
Total Aromatics >EC10-EC40	TM174	86.34 60.75 : 129.09	89.02 60.75 : 129.09	91.46 59.92 : 128.54

Fluoride				
Component	Method Code	QC 2439	QC 2451	QC 2457
Fluoride	TM104	104.0 96.67 : 108.67	100.67 96.67 : 108.67	101.33 96.67 : 108.67

GRO by GC-FID (W)		
Component	Method Code	QC 2422
Benzene by GC	TM245	102.5 81.54 : 119.70
Ethylbenzene by GC	TM245	103.5 80.99 : 121.09
m & p Xylene by GC	TM245	104.5 82.77 : 123.19
MTBE GC-FID	TM245	98.0 80.06 : 123.27
o Xylene by GC	TM245	104.5 84.26 : 121.50
QC	TM245	97.18 67.65 : 138.14
Toluene by GC	TM245	104.5 82.78 : 121.99

Low Level Cyanide (W)				
Component	Method Code	QC 2498	QC 2487	QC 2403
Free Cyanide - Low Level	TM279	80.75 88.27 : 122.21	79.5 88.27 : 122.21	78.75 88.27 : 122.21
Total Cyanide - Low Level	TM279	101.25 76.58 : 119.24	100.25 76.58 : 119.24	101.5 76.58 : 119.24

Mercury Dissolved

Mercury Dissolved			
Component	Method Code	QC 2486	QC 2426
Mercury Dissolved (CVAF)	TM183	90.6 69.30 : 128.70	97.5 69.30 : 128.70

PAH Spec MS - Aqueous (W)				
Component	Method Code	QC 2489	QC 2494	QC 2487
Acenaphthene by GCMS	TM178	102.4 97.60 : 116.80	107.2 90.45 : 118.63	108.0 90.45 : 118.63
Acenaphthylene by GCMS	TM178	93.2 89.20 : 113.20	110.4 90.13 : 116.27	111.2 90.13 : 116.27
Anthracene by GCMS	TM178	101.2 92.40 : 116.40	104.8 92.40 : 114.00	104.0 92.40 : 114.00
Benz(a)anthracene by GCMS	TM178	90.4 84.40 : 110.80	108.0 89.51 : 117.69	107.6 89.51 : 117.69
Benzo(a)pyrene by GCMS	TM178	95.6 88.40 : 110.00	103.6 89.43 : 118.57	104.4 89.43 : 118.57
Benzo(b)fluoranthene by GCMS	TM178	90.8 81.20 : 114.80	106.0 87.80 : 121.80	106.4 87.80 : 121.80
Benzo(ghi)perylene by GCMS	TM178	102.8 93.60 : 112.80	103.6 87.10 : 119.30	98.0 87.10 : 119.30
Benzo(k)fluoranthene by GCMS	TM178	100.0 90.40 : 119.20	102.0 93.23 : 123.57	104.8 93.23 : 123.57
Chrysene by GCMS	TM178	108.4 96.80 : 113.60	109.6 88.68 : 116.92	109.2 88.68 : 116.92
Dibenzo(ah)anthracene by GCMS	TM178	96.0 88.00 : 112.00	100.8 86.24 : 118.56	103.6 86.24 : 118.56
Fluoranthene by GCMS	TM178	96.4 93.49 : 118.20	109.6 86.04 : 121.96	101.6 86.04 : 121.96
Fluorene by GCMS	TM178	97.6 94.39 : 118.66	107.6 90.76 : 121.24	107.6 90.76 : 121.24
Indeno(123cd)pyrene by GCMS	TM178	95.6 90.40 : 114.40	99.6 88.39 : 119.61	98.0 88.39 : 119.61
Naphthalene by GCMS	TM178	99.6 94.00 : 115.60	110.8 89.40 : 121.80	112.4 89.40 : 121.80
Phenanthrene by GCMS	TM178	101.2 94.80 : 114.00	108.8 90.41 : 119.19	106.4 90.41 : 119.19
Pyrene by GCMS	TM178	103.6 96.40 : 115.60	108.8 91.00 : 120.20	99.6 91.00 : 120.20

pH Value						
Component	Method Code	QC 2440	QC 2412	QC 2416	QC 2418	QC 2422
pH	TM256	100.67 99.33 : 102.54	100.67 99.33 : 102.54	100.8 99.33 : 102.54	100.94 99.33 : 102.54	101.07 99.33 : 102.54

Phenols by HPLC (W)

	CERTIFICATE OF ANALYSIS				Validated	
	SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
	Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Phenols by HPLC (W)						

Component	Method Code	QC 2427	QC 2481	QC 2466	QC 2436	QC 2402
2,3,5 Trimethyl-Phenol by HPLC (W)	TM259	101.56 77.41 : 127.55	97.66 77.41 : 127.55	97.66 77.41 : 127.55	99.61 77.41 : 127.55	101.56 77.41 : 127.55
2-Isopropyl Phenol by HPLC (W)	TM259	97.51 82.77 : 126.51	93.69 82.77 : 126.51	93.69 82.77 : 126.51	91.78 82.77 : 126.51	93.69 82.77 : 126.51
Cresols by HPLC (W)	TM259	101.32 76.60 : 126.28	100.0 76.60 : 126.28	98.68 76.60 : 126.28	100.0 76.60 : 126.28	103.95 76.60 : 126.28
Napthol by HPLC (W)	TM259	103.52 75.40 : 129.40	101.56 75.40 : 129.40	97.66 75.40 : 129.40	95.7 75.40 : 129.40	101.56 75.40 : 129.40
Phenol by HPLC (W)	TM259	98.3 85.77 : 125.91	96.41 85.77 : 125.91	94.52 85.77 : 125.91	96.41 85.77 : 125.91	98.3 85.77 : 125.91
Xylenols by HPLC (W)	TM259	100.0 79.09 : 131.82	97.78 79.09 : 131.82	97.47 79.09 : 131.82	98.1 79.09 : 131.82	99.68 79.09 : 131.82

Component	Method Code	QC 2465
Sulphur Dissolved	TM228	94.1 83.39 : 110.45

Component	Method Code	QC 2443	QC 2448	QC 2404
Total Dissolved Solids	TM123	98.4 97.30 : 100.92	98.3 97.30 : 100.92	98.7 97.30 : 100.92

Component	Method Code	QC 2468	QC 2422	QC 2436
Aluminium	TM152	104.0 88.99 : 114.16	103.33 88.99 : 114.16	103.67 88.99 : 114.16
Antimony	TM152	104.5 80.45 : 122.65	108.17 80.45 : 122.65	107.0 80.45 : 122.65
Arsenic	TM152	100.33 85.20 : 116.13	102.83 85.20 : 116.13	100.17 85.20 : 116.13
Barium	TM152	105.5 88.50 : 113.15	108.0 88.50 : 113.15	107.0 88.50 : 113.15
Beryllium	TM152	110.33 83.77 : 113.97	109.17 83.77 : 113.97	108.0 83.77 : 113.97
Bismuth	TM152	101.5 91.18 : 107.28	104.33 91.18 : 107.28	102.17 91.18 : 107.28
Boron	TM152	107.33 86.68 : 117.67	109.33 86.68 : 117.67	108.0 86.68 : 117.67
Cadmium	TM152	100.33 87.95 : 113.45	102.67 87.95 : 113.45	101.83 87.95 : 113.45
Calcium	TM152	105.33 81.38 : 119.09	106.0 81.38 : 119.09	106.67 81.38 : 119.09
Chromium	TM152	101.5 90.87 : 108.50	101.83 90.87 : 108.50	101.0 90.87 : 108.50

	CERTIFICATE OF ANALYSIS				Validated	
	SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
	Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Total Metals by ICP-MS						

		QC 2468	QC 2422	QC 2436
Cobalt	TM152	103.33 84.39 : 114.26	104.33 84.39 : 114.26	103.67 84.39 : 114.26
Copper	TM152	102.67 84.61 : 114.08	103.5 84.61 : 114.08	103.0 84.61 : 114.08
Iron	TM152	101.33 90.00 : 111.84	101.33 90.00 : 111.84	102.0 90.00 : 111.84
Lead	TM152	102.5 85.65 : 113.58	103.5 85.65 : 113.58	102.67 85.65 : 113.58
Lithium	TM152	106.0 87.07 : 115.37	107.17 87.07 : 115.37	103.83 87.07 : 115.37
Magnesium	TM152	100.0 86.65 : 109.61	98.67 86.65 : 109.61	98.67 86.65 : 109.61
Manganese	TM152	104.5 91.67 : 111.62	103.5 91.67 : 111.62	103.83 91.67 : 111.62
Molybdenum	TM152	95.5 87.00 : 108.89	98.83 87.00 : 108.89	95.5 87.00 : 108.89
Nickel	TM152	103.67 88.26 : 111.14	103.67 88.26 : 111.14	102.5 88.26 : 111.14
Phosphorus	TM152	103.0 84.56 : 112.20	101.83 84.56 : 112.20	101.83 84.56 : 112.20
Potassium	TM152	103.33 86.97 : 112.46	102.0 86.97 : 112.46	104.67 86.97 : 112.46
Selenium	TM152	98.5 88.44 : 113.86	100.0 88.44 : 113.86	98.83 88.44 : 113.86
Silver	TM152	104.5 82.13 : 120.33	108.0 82.13 : 120.33	106.33 82.13 : 120.33
Sodium	TM152	101.33 84.47 : 113.44	98.67 84.47 : 113.44	99.33 84.47 : 113.44
Strontium	TM152	101.0 90.72 : 114.82	100.33 90.72 : 114.82	101.0 90.72 : 114.82
Tellurium	TM152	103.0 86.97 : 108.87	105.83 86.97 : 108.87	104.0 86.97 : 108.87
Thallium	TM152	94.83 80.92 : 114.72	97.67 80.92 : 114.72	97.0 80.92 : 114.72
Tin	TM152	102.67 88.91 : 108.41	105.5 88.91 : 108.41	104.33 88.91 : 108.41
Titanium	TM152	107.17 90.30 : 110.00	109.17 90.30 : 110.00	107.17 90.30 : 110.00
Uranium	TM152	100.5 84.78 : 111.18	100.5 84.78 : 111.18	99.33 84.78 : 111.18
Vanadium	TM152	106.0 88.43 : 114.30	104.83 88.43 : 114.30	103.67 88.43 : 114.30
Zinc	TM152	101.33 86.52 : 115.27	101.67 86.52 : 115.27	101.0 86.52 : 115.27

Component	Method Code	QC 2447
1,1,1,2-Tetrachloroethane	TM208	102.0 79.47 : 113.27
1,1,1-Trichloroethane	TM208	106.0 81.01 : 112.00
1,1-Dichloroethane	TM208	106.5 82.09 : 116.41



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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

VOC MS (W)

		QC 2447
1,2-Dichloroethane	TM208	115.5 80.28 : 123.63
2-Chlorotoluene	TM208	95.5 83.31 : 110.91
4-Chlorotoluene	TM208	95.5 84.01 : 111.46
Benzene	TM208	106.5 87.46 : 118.30
Bromomethane	TM208	109.5 76.99 : 118.39
Carbontetrachloride	TM208	109.0 81.73 : 114.22
Chlorobenzene	TM208	100.0 90.24 : 109.71
Chloroform	TM208	112.0 83.67 : 118.08
Chloromethane	TM208	106.5 70.42 : 127.06
Cis-1,2-Dichloroethene	TM208	108.0 83.95 : 112.60
Dichloromethane	TM208	110.5 81.65 : 120.83
Ethylbenzene	TM208	99.0 85.59 : 106.44
Hexachlorobutadiene	TM208	86.5 66.83 : 108.27
o-Xylene	TM208	97.0 78.40 : 110.68
p/m-Xylene	TM208	96.75 82.64 : 112.12
Tert-butyl methyl ether	TM208	97.5 68.23 : 127.69
Tetrachloroethene	TM208	100.0 81.10 : 112.63
Toluene	TM208	100.5 87.40 : 109.78
Trichloroethene	TM208	103.5 81.17 : 111.80
Vinyl Chloride	TM208	108.5 72.73 : 123.40

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis .
The figure detailed is the percentage recovery result for the AQC .
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control .



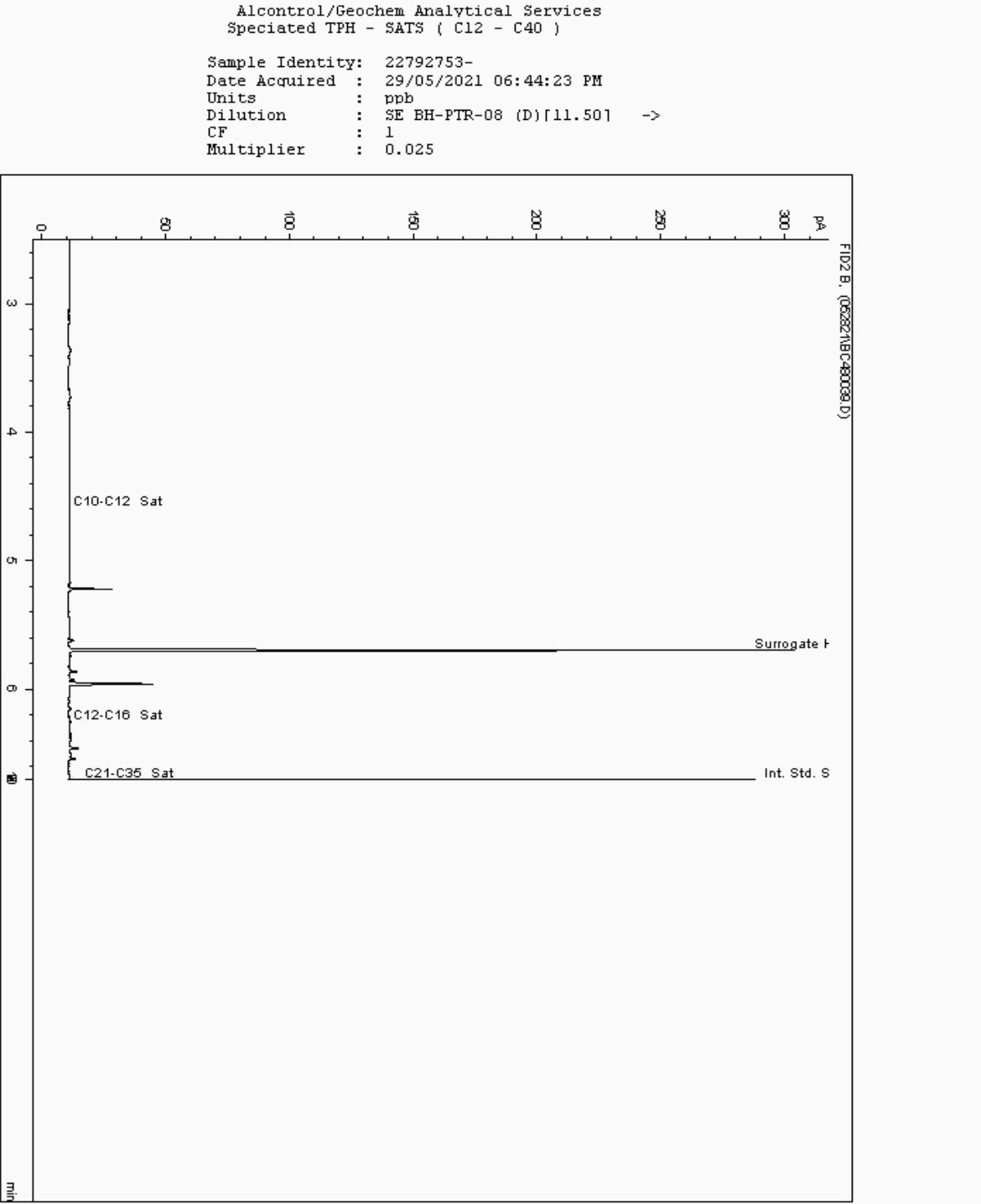
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SDG: 210525-13 Client Reference: B025563 Report Number: 600807
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337660 Depth : 11.50
Sample ID : BH-PTR-08 (D)





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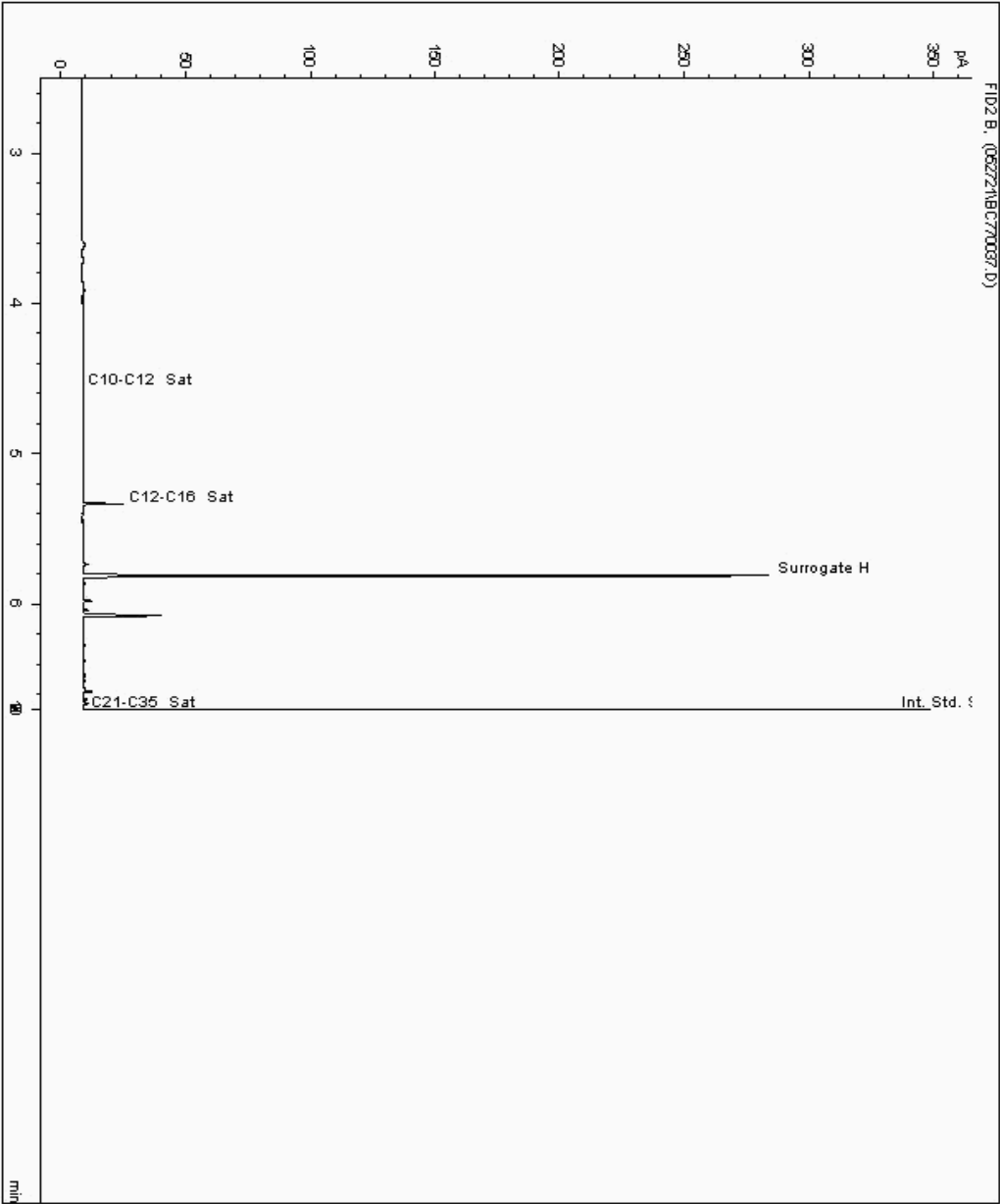
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337672 Depth : 3.00
Sample ID : BH-PTR-10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792719-
Date Acquired : 5/28/2021 2:23:56 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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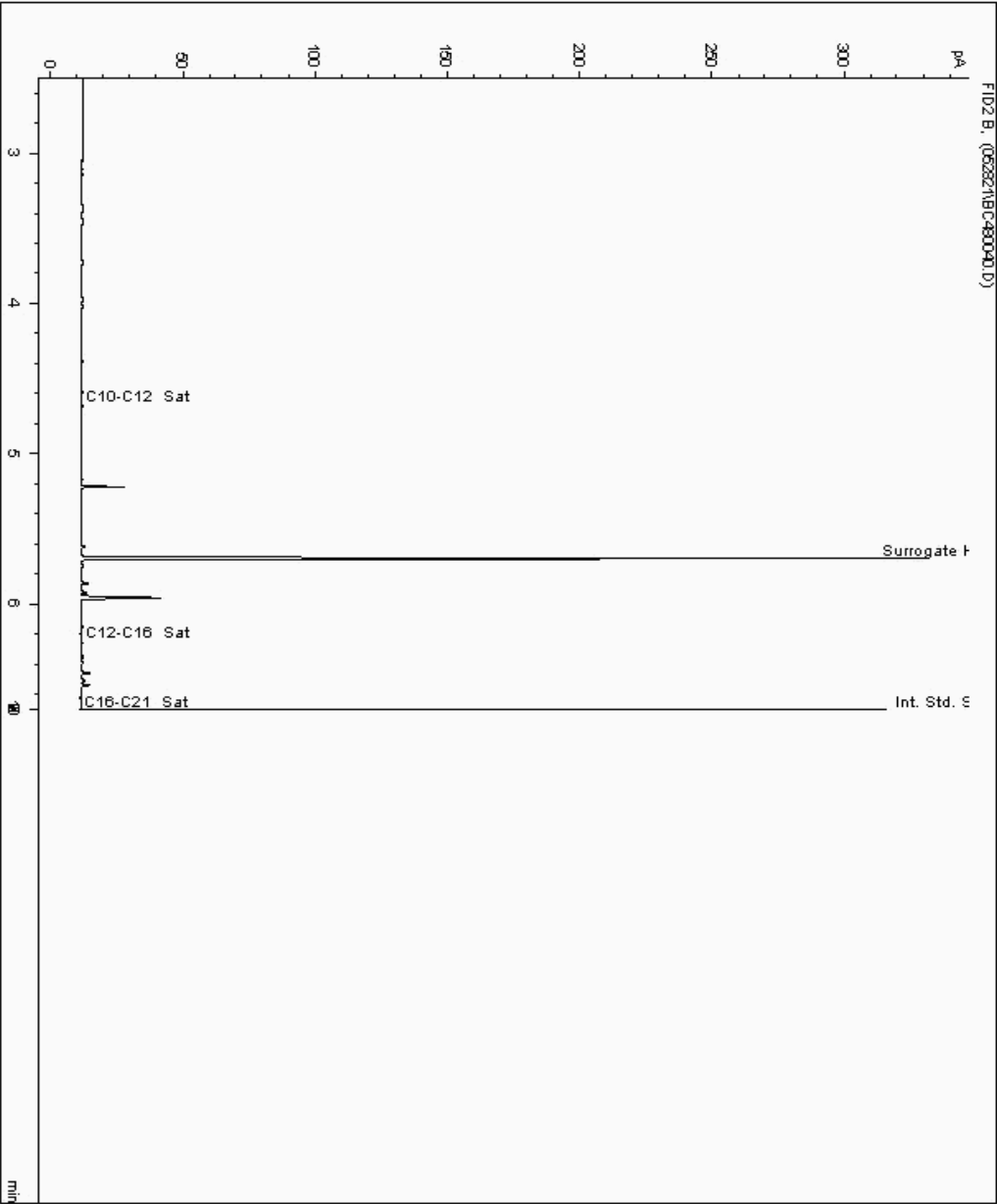
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337688 Depth : 4.00
Sample ID : BH-PTR-13

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792688-
Date Acquired : 29/05/2021 07:07:44 PM
Units : ppb
Dilution : SE BH-PTR-13[4.00] ->
CF : 1
Multiplier : 0.025





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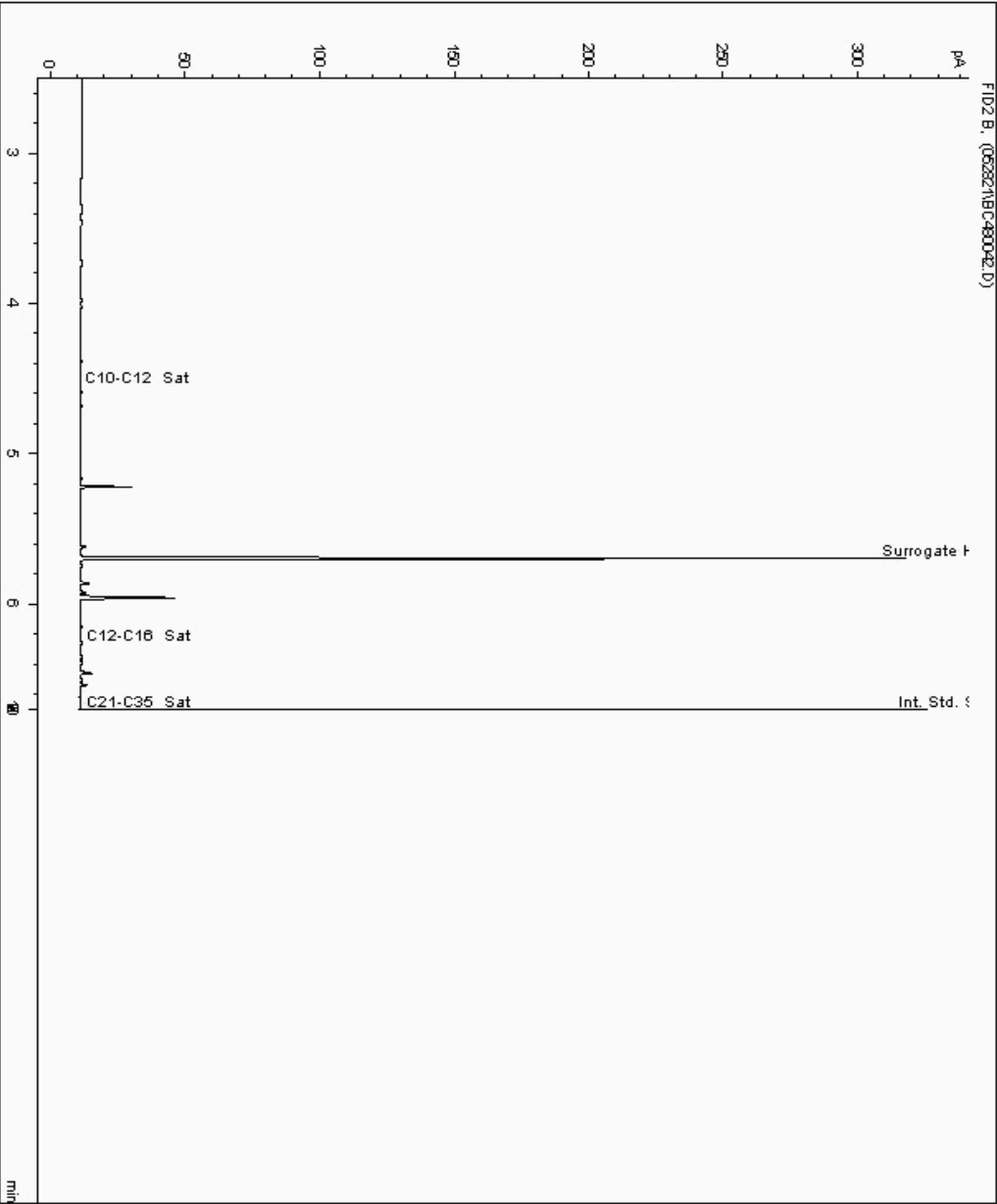
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337714 Depth : 7.00
Sample ID : BH-PTR-07

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792653-
Date Acquired : 29/05/2021 07:53:09 PM
Units : ppb
Dilution : SE BH-PTR-07[7.00] ->
CF : 1
Multiplier : 0.025



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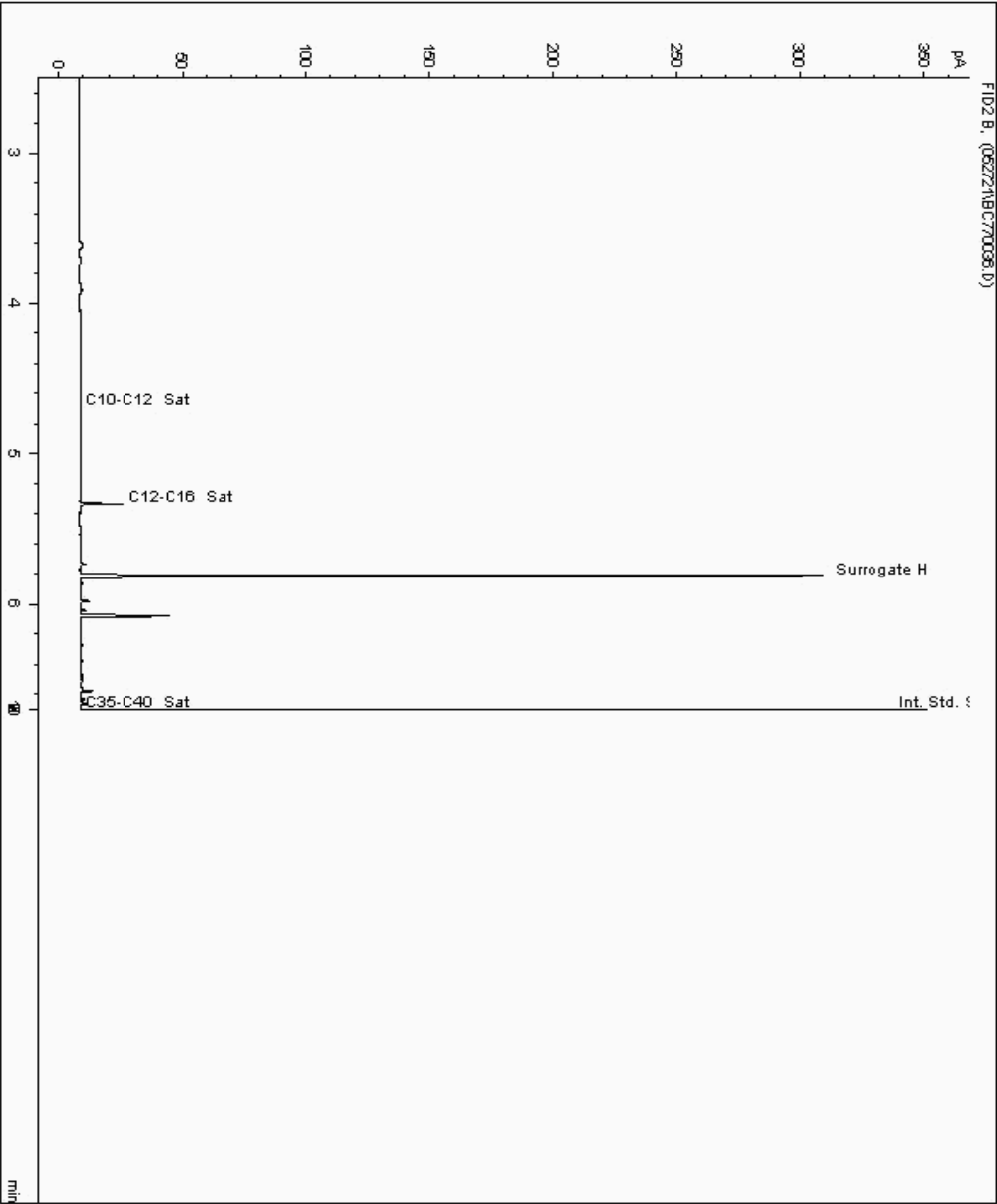
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337735 Depth : 7.50
Sample ID : BH-PTR-14

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792969-
Date Acquired : 5/28/2021 2:00:23 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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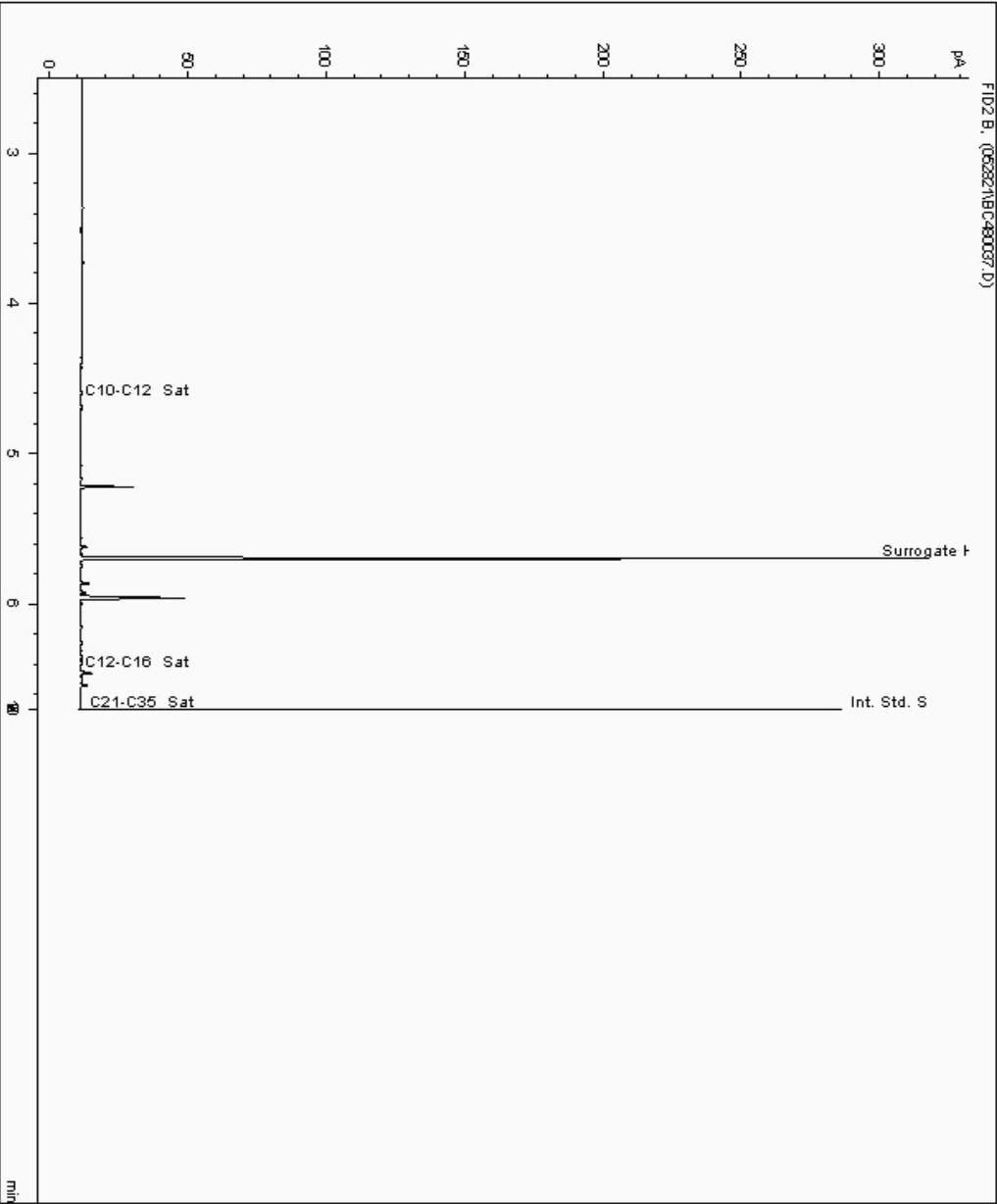
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337794 Depth : 5.30
Sample ID : BH-PTR-02 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792913-
Date Acquired : 29/05/2021 05:58:03 PM
Units : ppb
Dilution : SE BH-PTR-02 (D)[5.30] ->
CF : 1
Multiplier : 0.025



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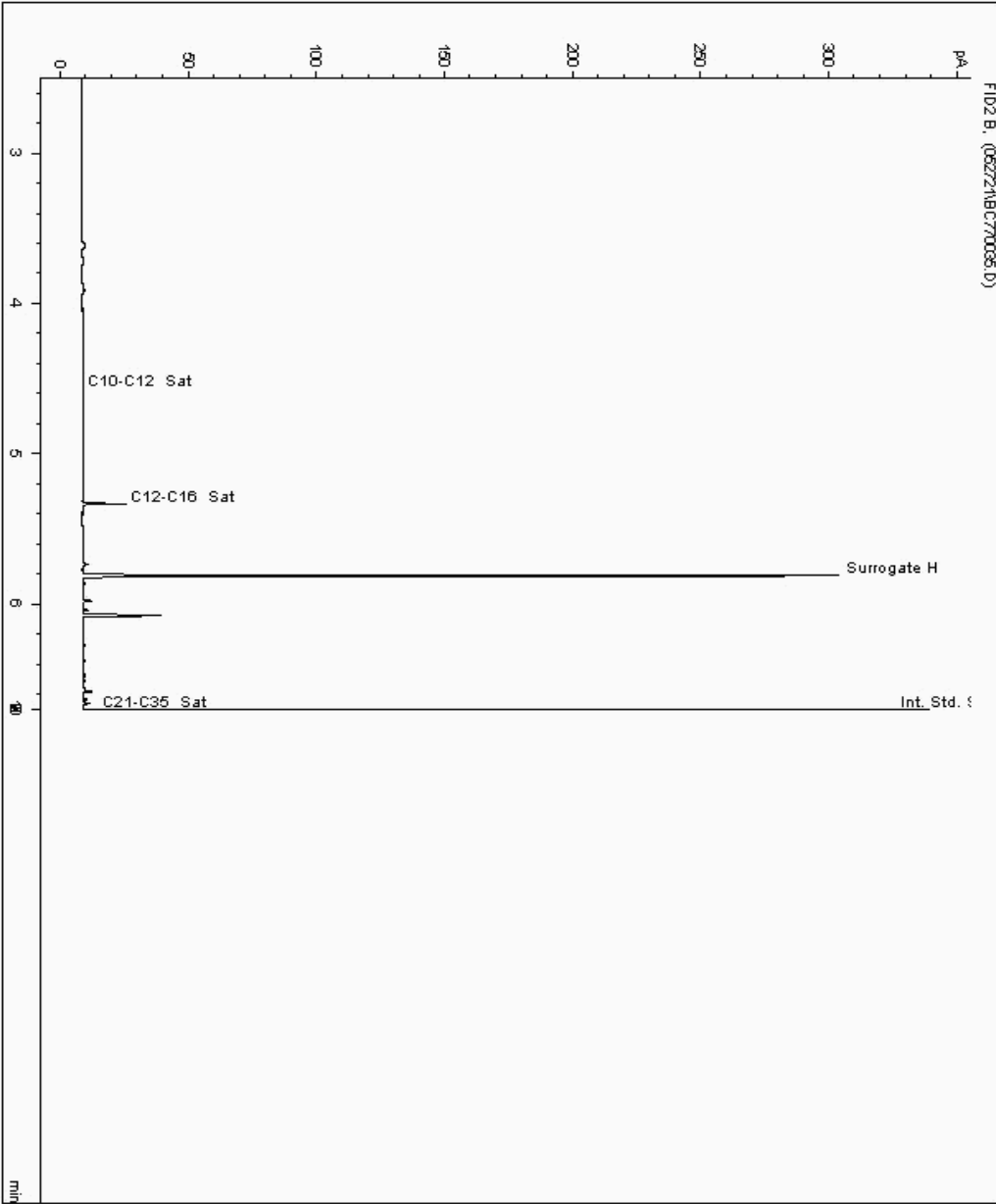
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337823 Depth : 1.70
Sample ID : BH-PTR-02 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792881-
Date Acquired : 5/28/2021 1:36:44 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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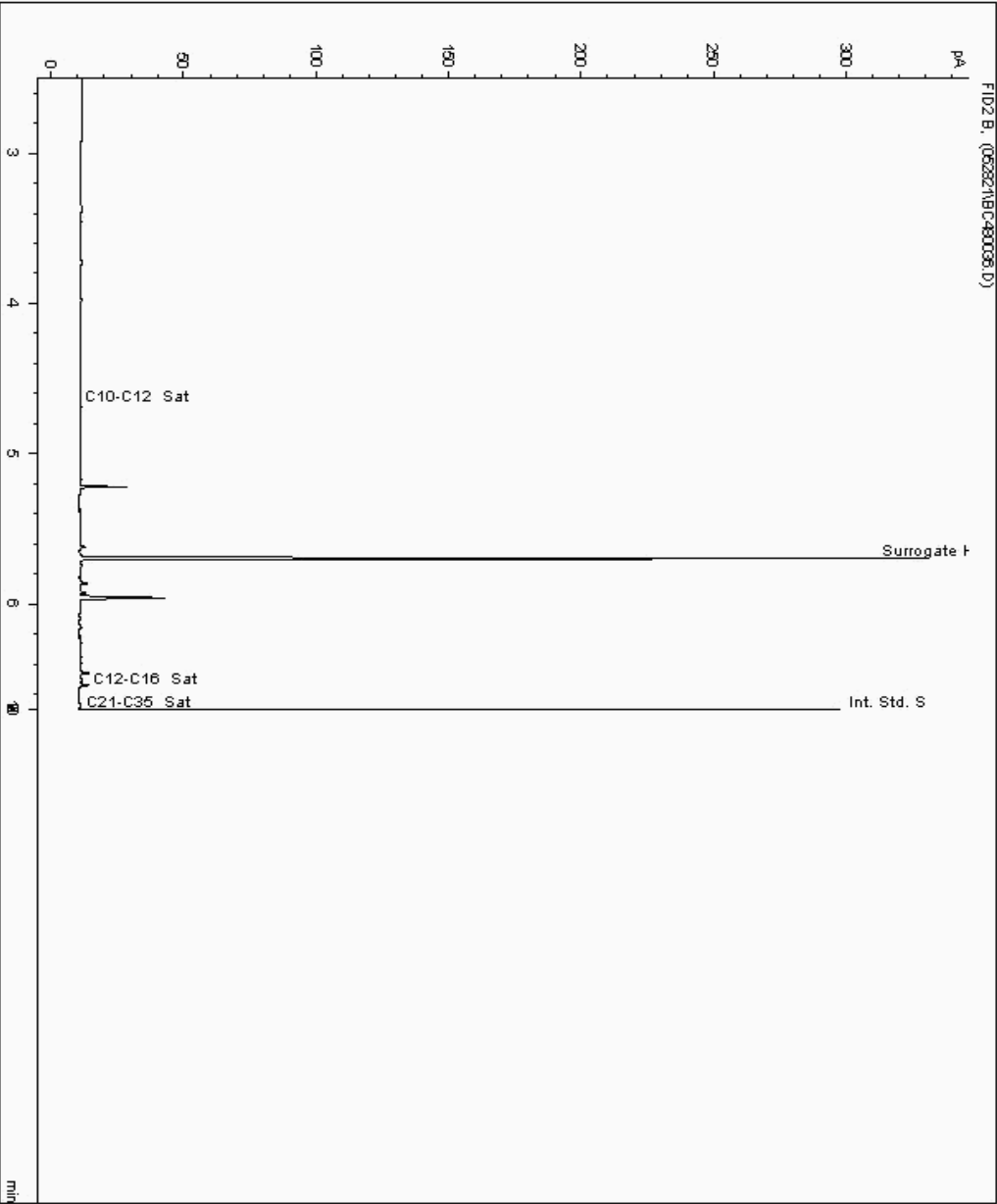
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337834 Depth : 4.90
Sample ID : BH-PTR-03 (A)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792847-
Date Acquired : 29/05/2021 05:34:38 PM
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Dilution : SE BH-PTR-03 (A)[4.90] ->
CF : 1
Multiplier : 0.025



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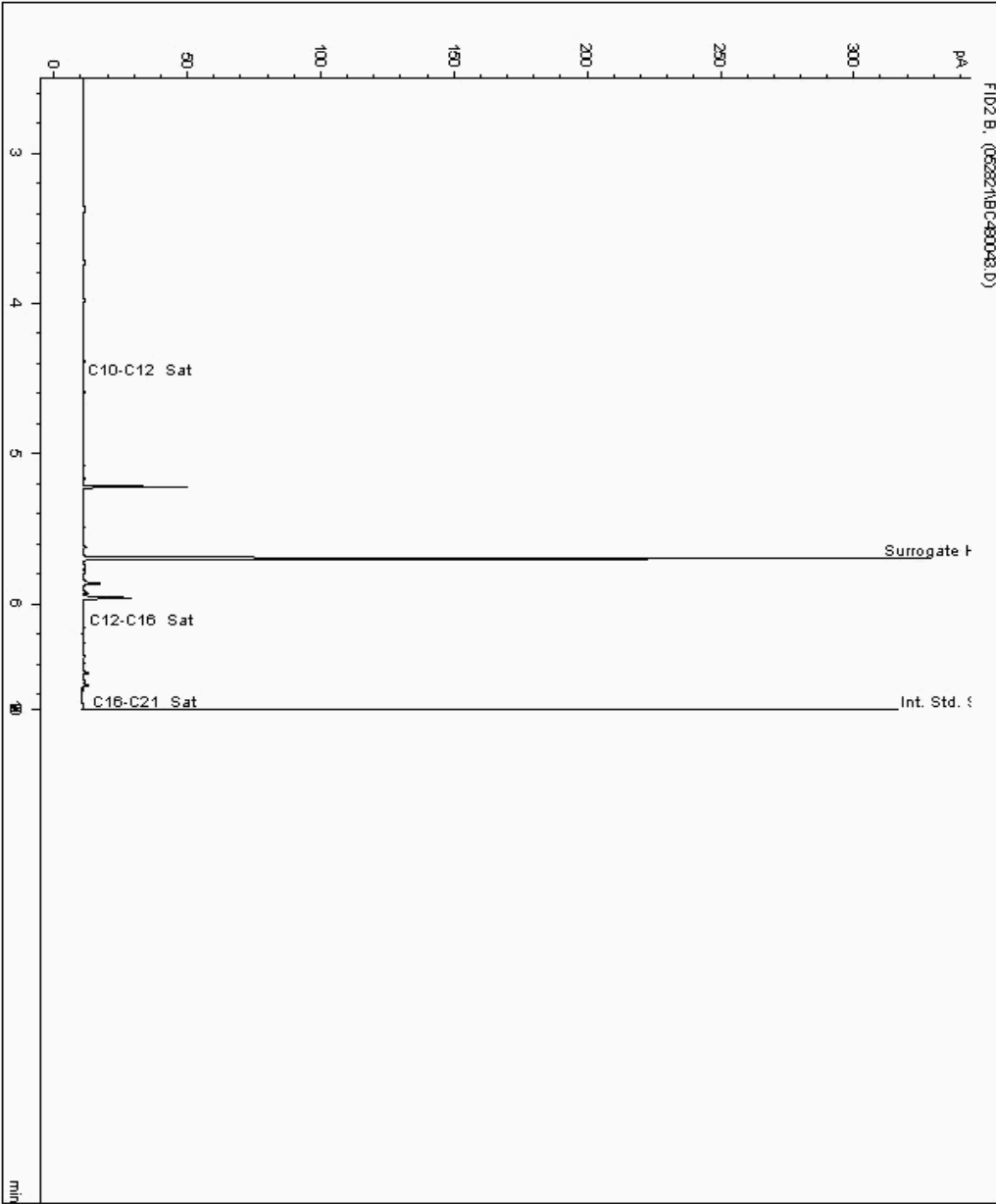
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337842 Depth : 1.30
Sample ID : BH-PTR-08 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792814-
Date Acquired : 29/05/2021 08:16:15 PM
Units : ppb
Dilution : SE BH-PTR-08 (S)[1.30] ->
CF : 1
Multiplier : 0.025





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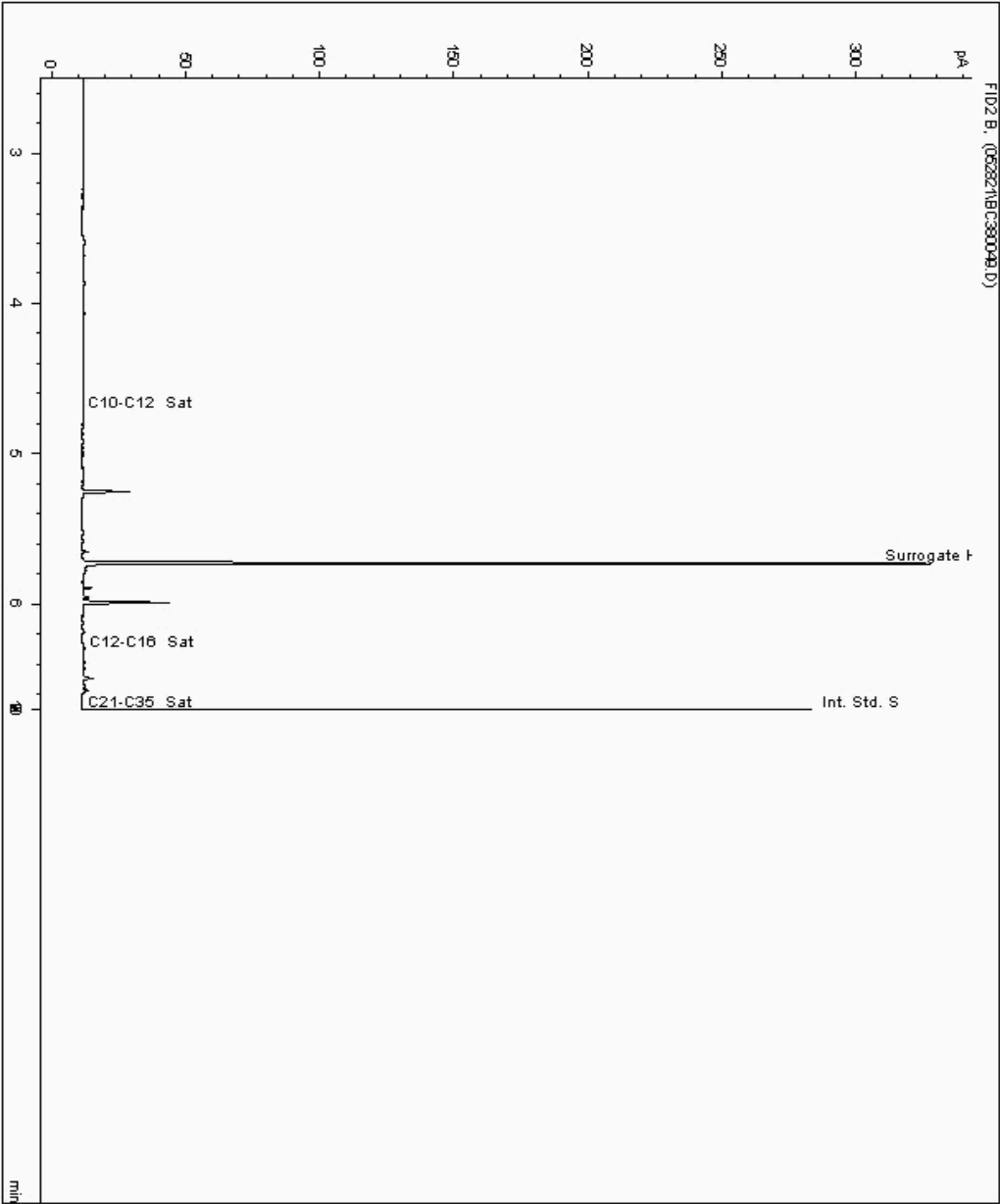
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337849 Depth : 8.50
Sample ID : BH-PTR-12

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792783-
Date Acquired : 29/05/21 07:31:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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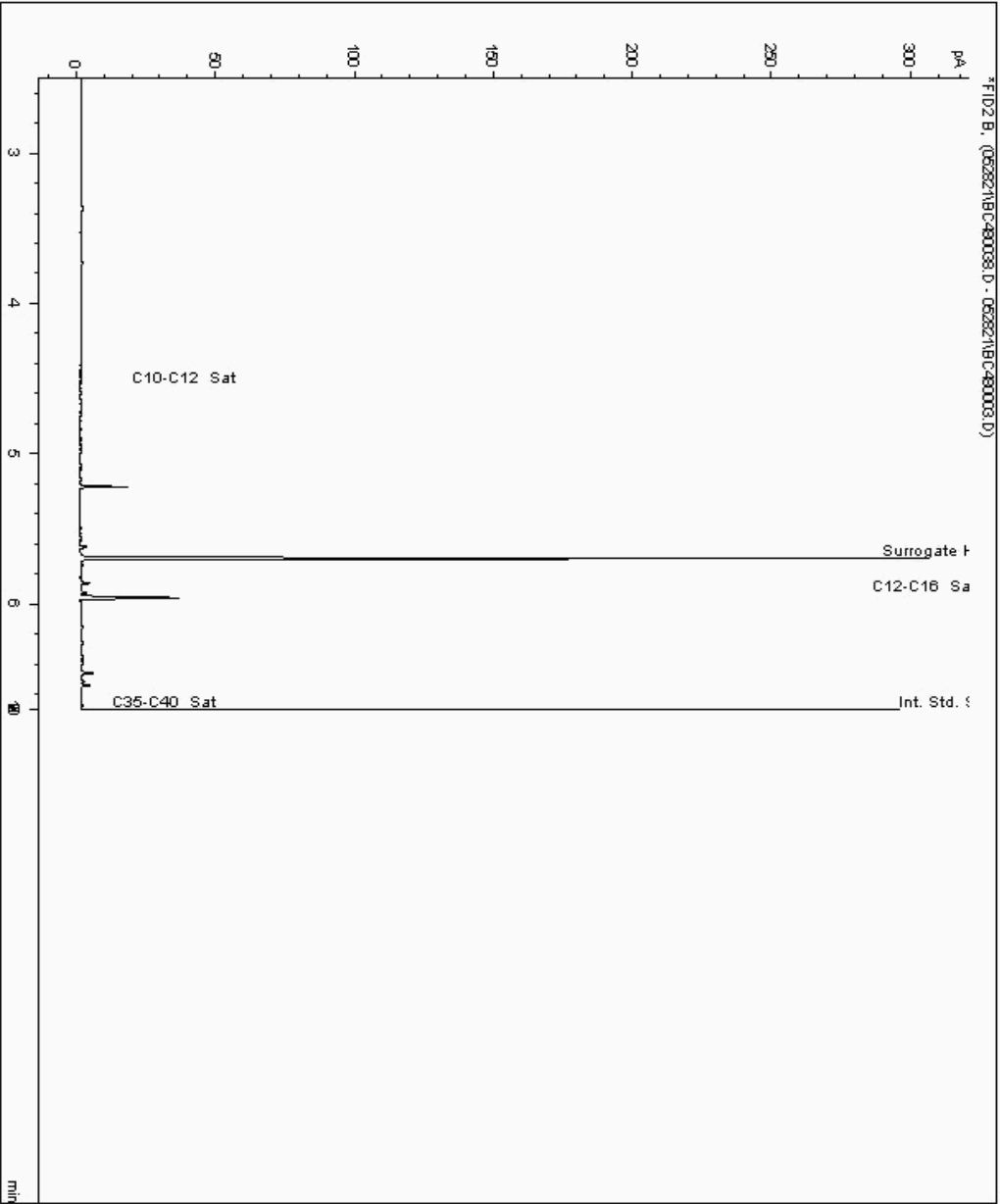
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24337933 Depth : 2.50
Sample ID : BH-PTR-04

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792945-
Date Acquired : 29/05/2021 06:21:13 PM
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CF : 1
Multiplier : 0.025





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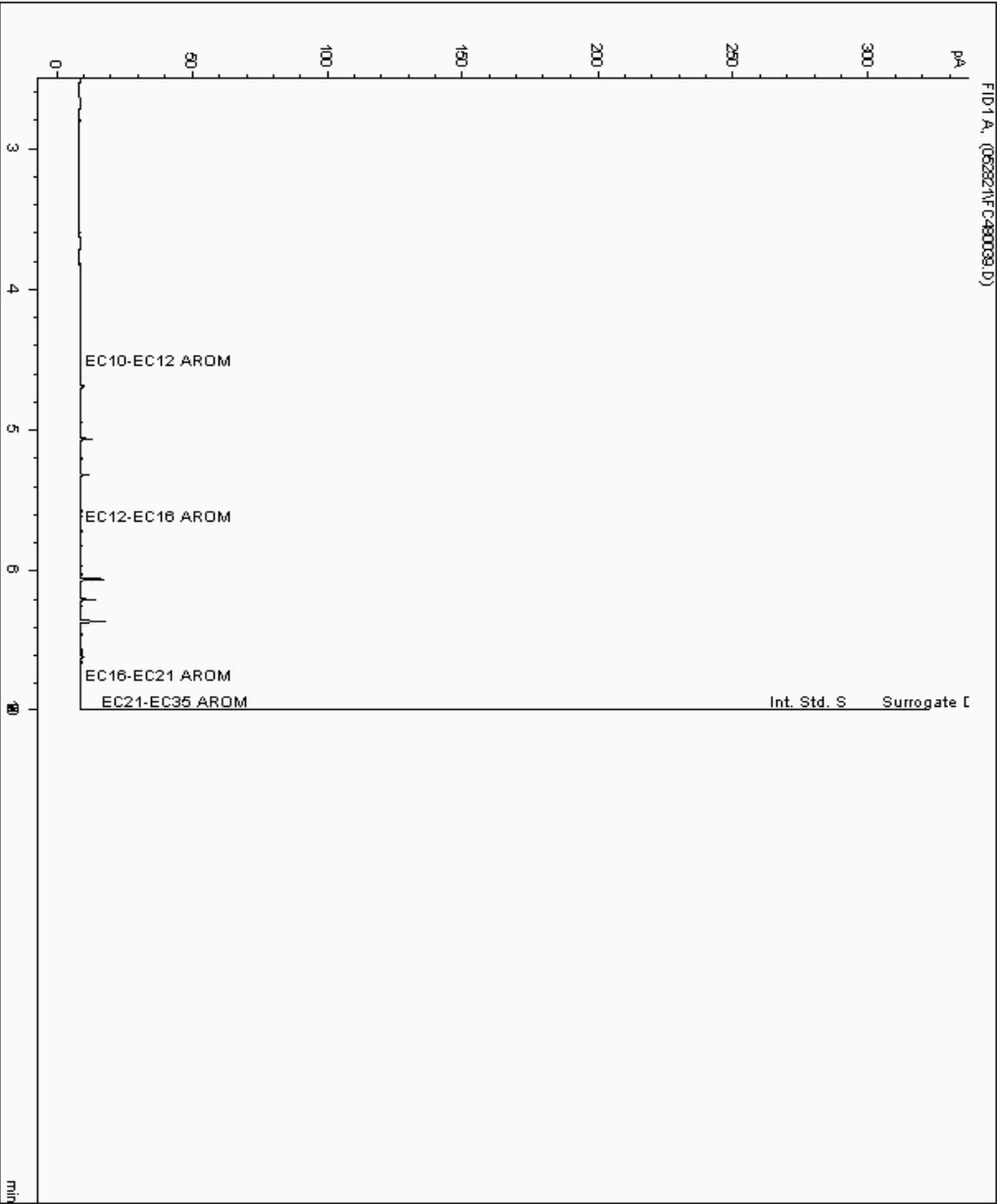
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337660 Depth : 11.50
Sample ID : BH-PTR-08 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792754-
Date Acquired : 29/05/2021 06:44:24 PM
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Dilution : SE BH-PTR-08 (D)[11.50] ->
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Multiplier : 0.025



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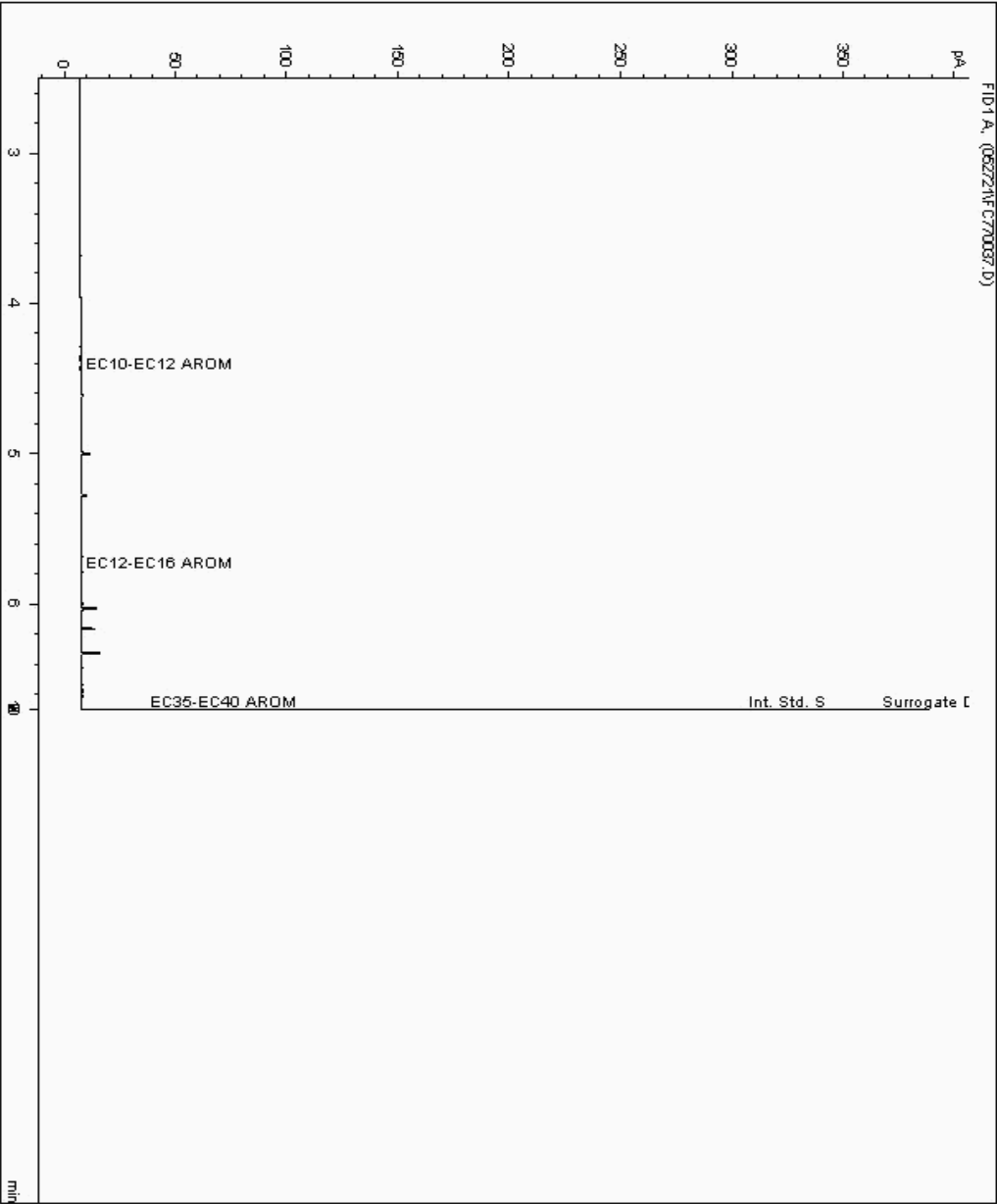
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337672 Depth : 3.00
Sample ID : BH-PTR-10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792720-
Date Acquired : 5/28/2021 2:23:56 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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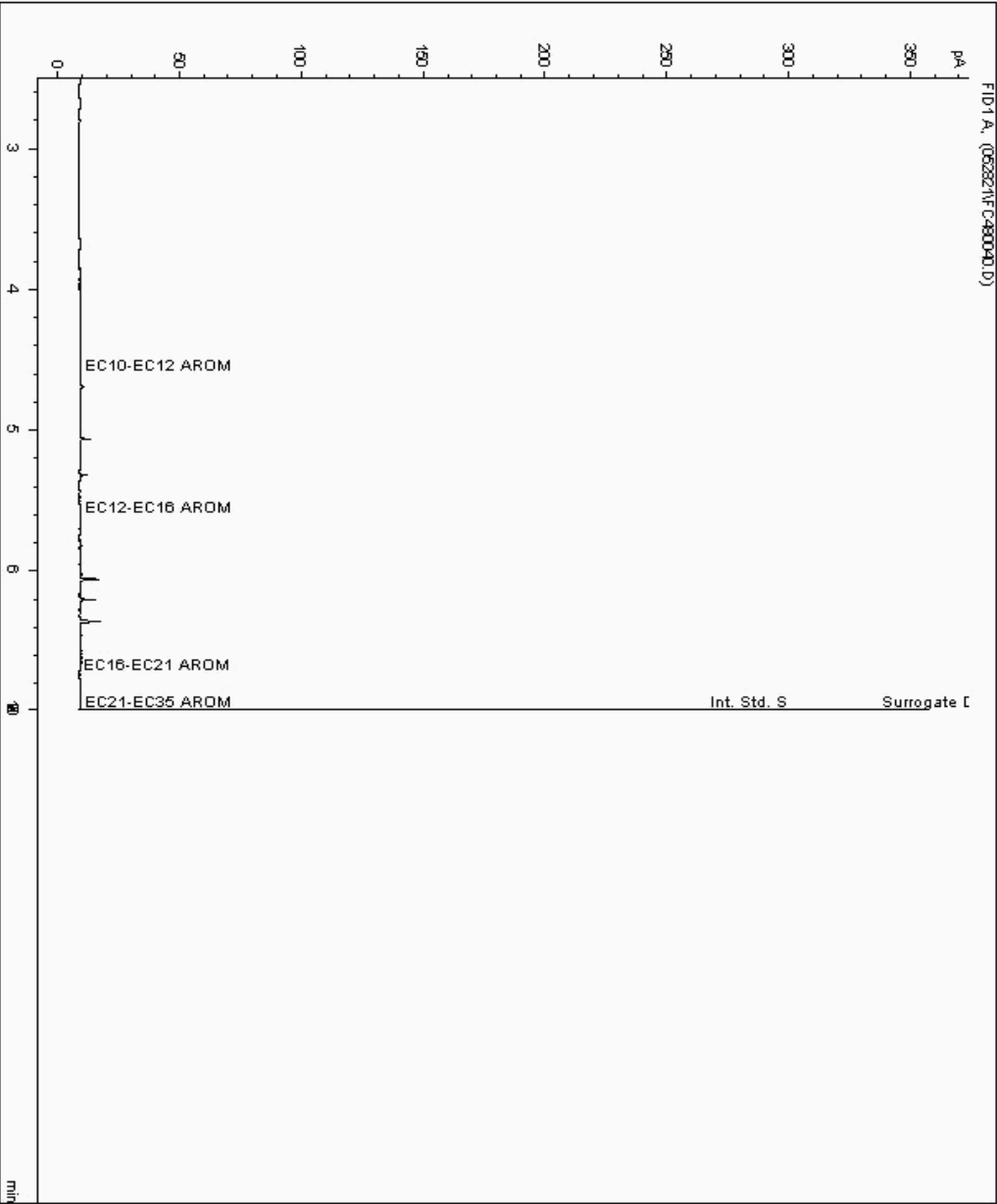
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337688 Depth : 4.00
Sample ID : BH-PTR-13

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792689-
Date Acquired : 29/05/2021 07:07:45 PM
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CF : 1
Multiplier : 0.025



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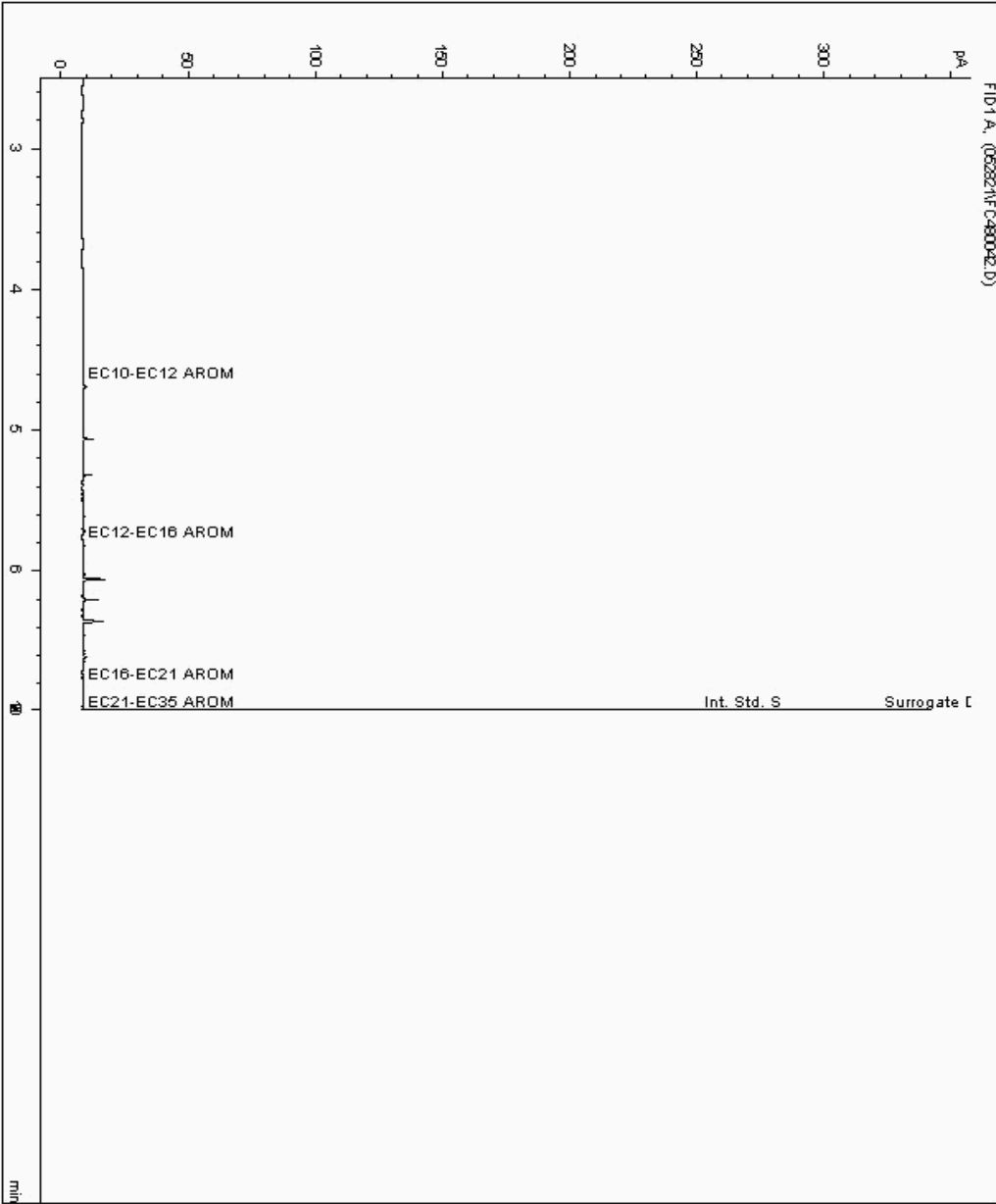
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337714 Depth : 7.00
Sample ID : BH-PTR-07

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792654-
Date Acquired : 29/05/2021 07:53:10 PM
Units : ppb
Dilution : SE BH-PTR-07[7.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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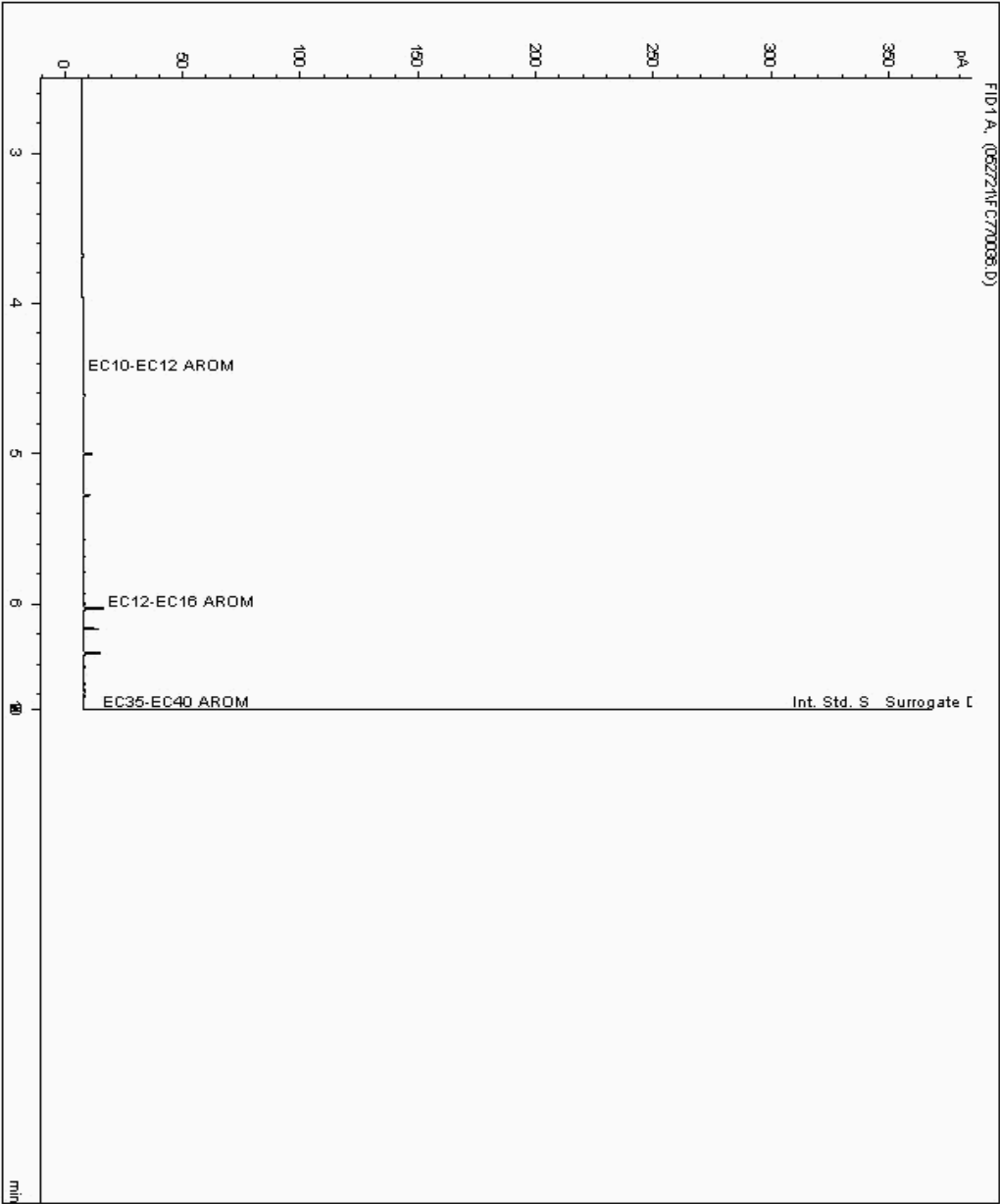
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337735 Depth : 7.50
Sample ID : BH-PTR-14

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792970-
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Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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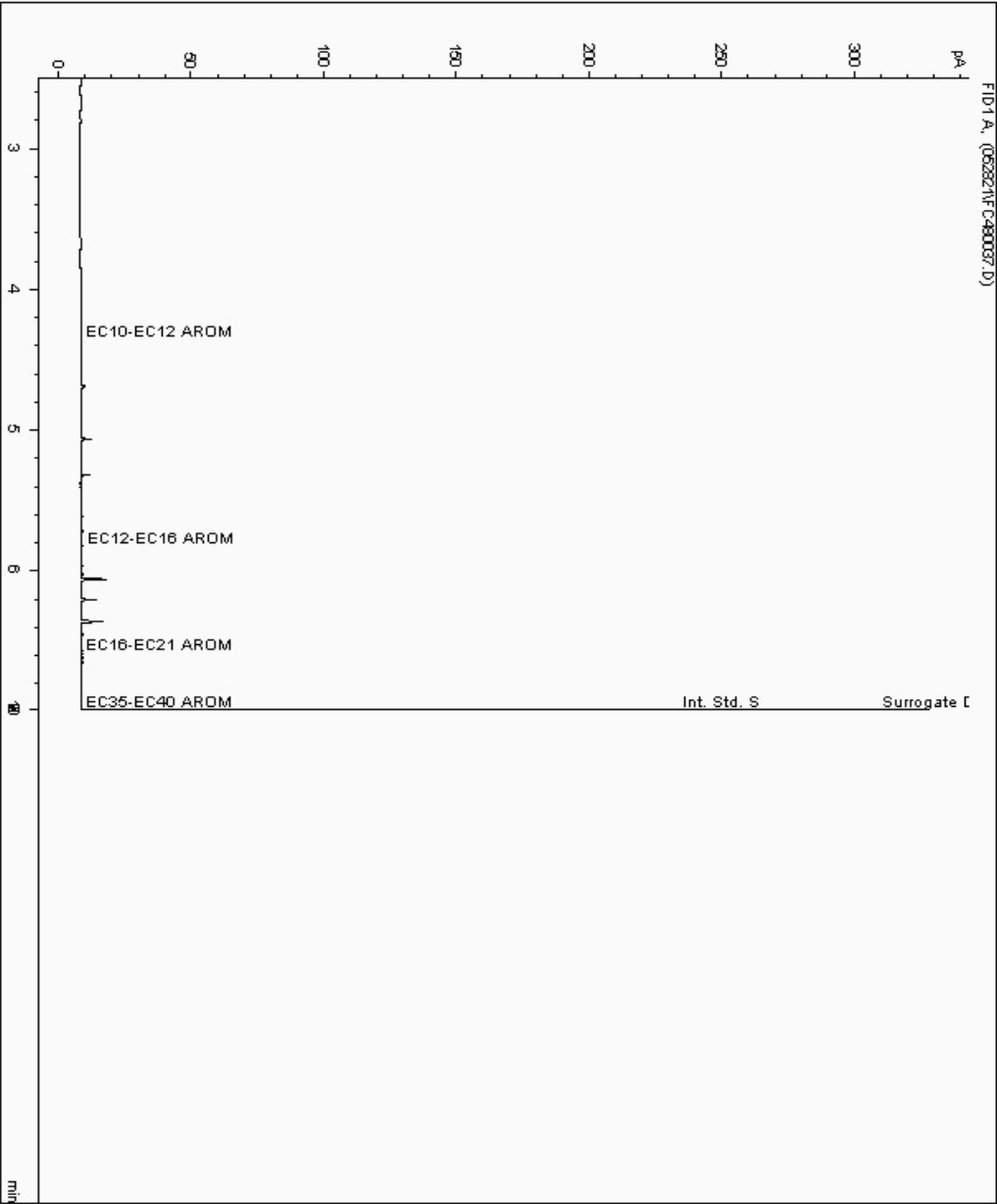
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337794 Depth : 5.30
Sample ID : BH-PTR-02 (D)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792914-
Date Acquired : 29/05/2021 05:58:04 PM
Units : ppb
Dilution : SE BH-PTR-02 (D)[5.30] ->
CF : 1
Multiplier : 0.025





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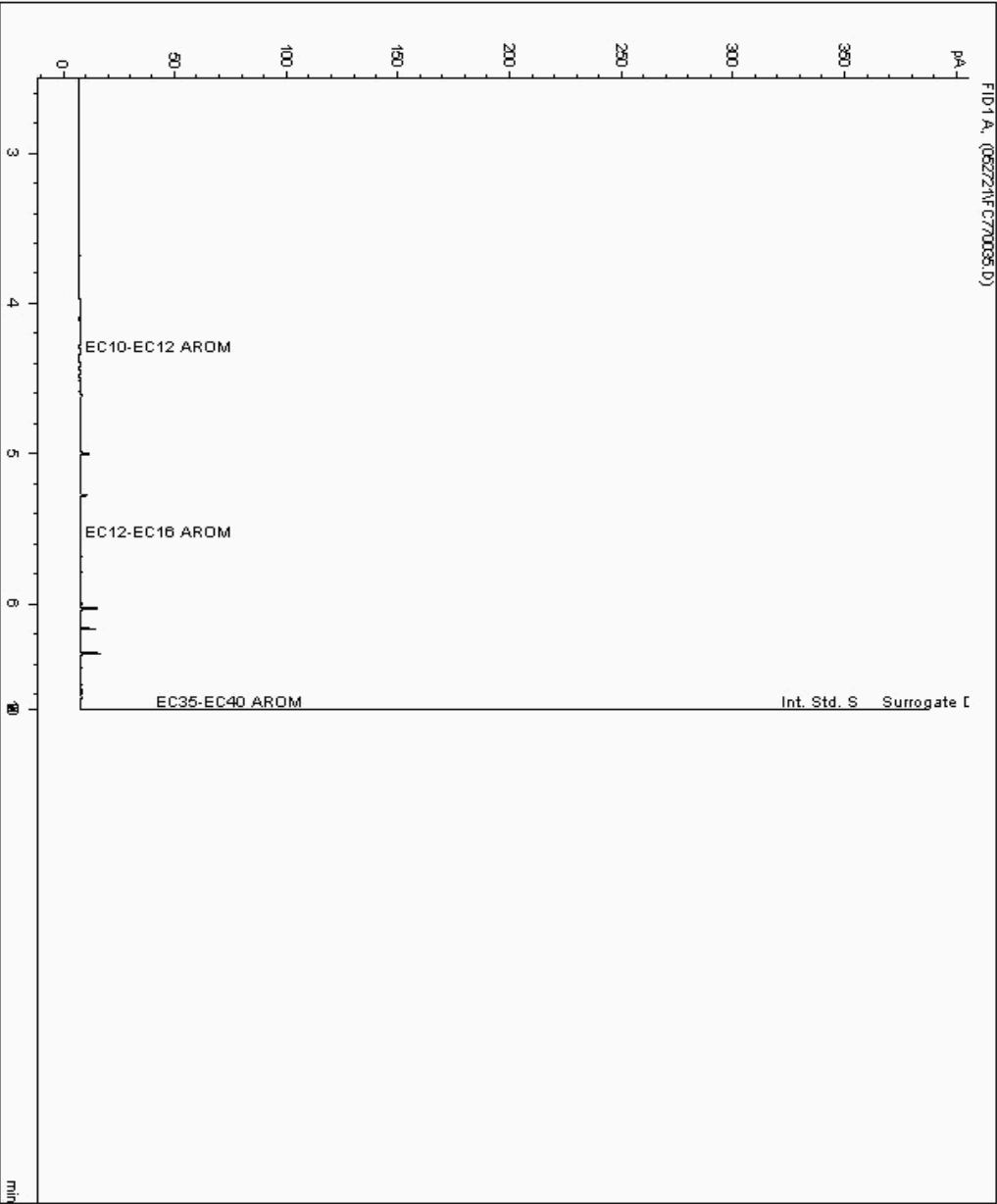
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337823 Depth : 1.70
Sample ID : BH-PTR-02 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22792882-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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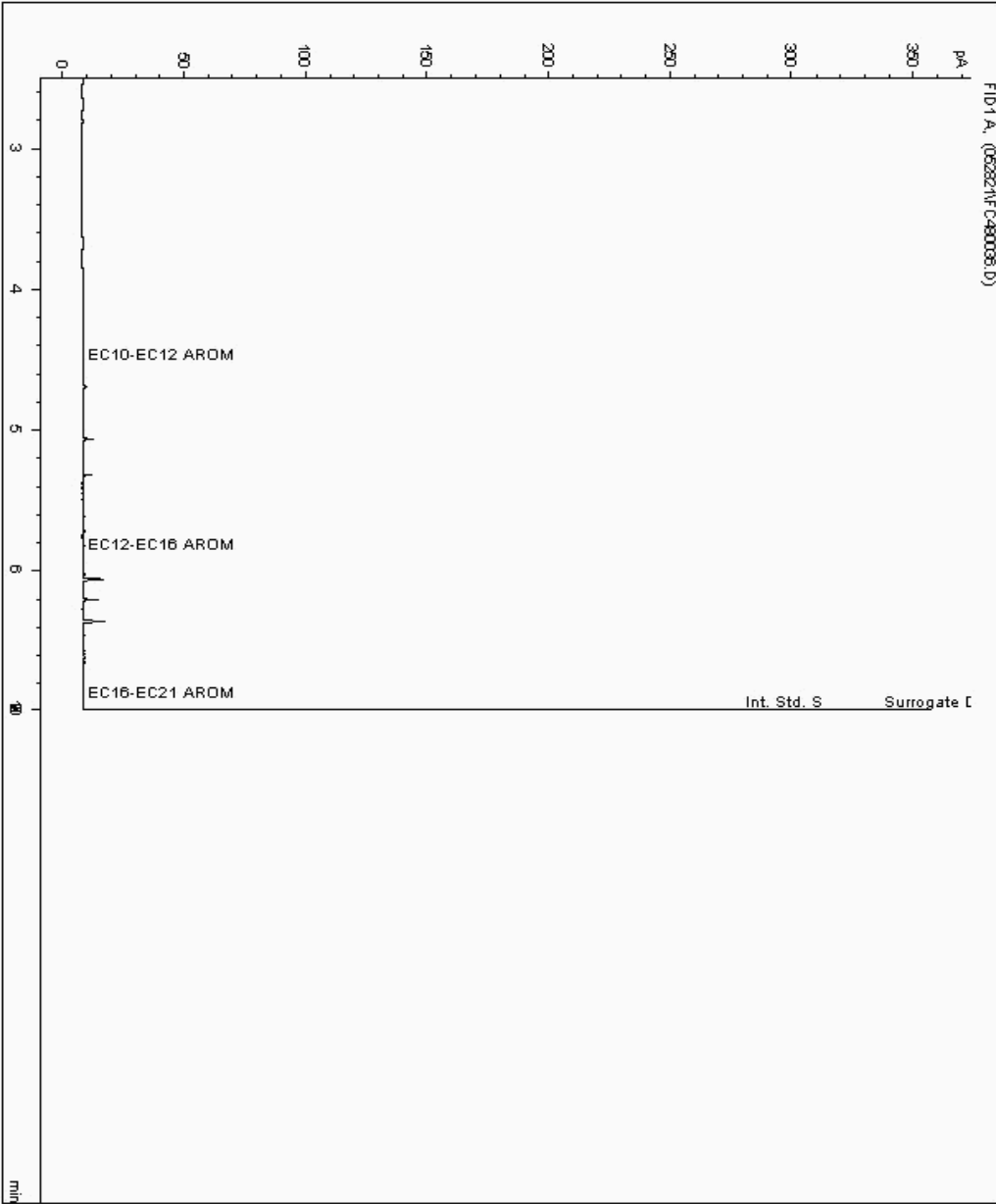
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337834 Depth : 4.90
Sample ID : BH-PTR-03 (A)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792848-
Date Acquired : 29/05/2021 05:34:37 PM
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Dilution : SE BH-PTR-03 (A)[4.90] ->
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Multiplier : 0.025





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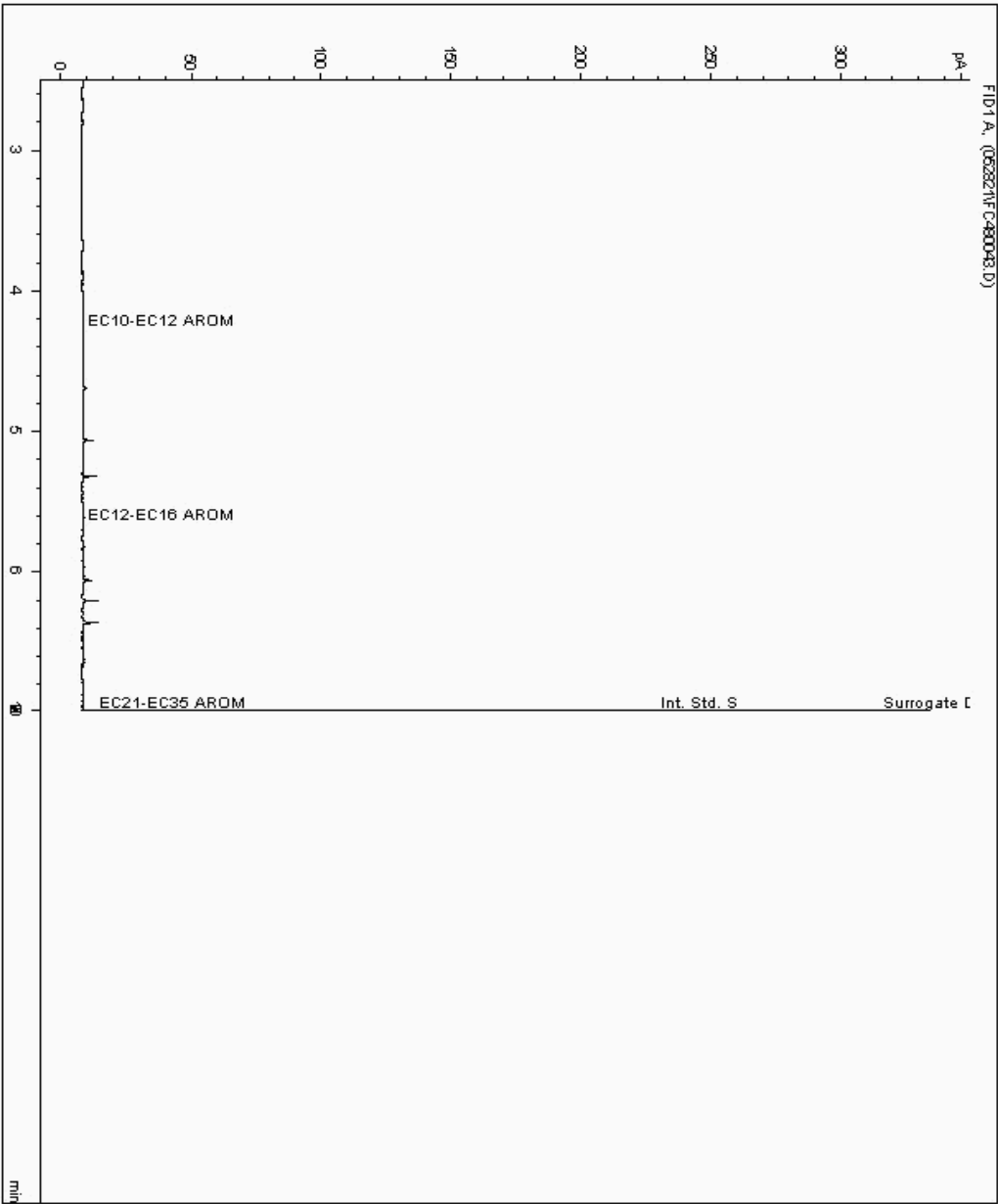
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337842 Depth : 1.30
Sample ID : BH-PTR-08 (S)

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792815-
Date Acquired : 29/05/2021 08:16:16 PM
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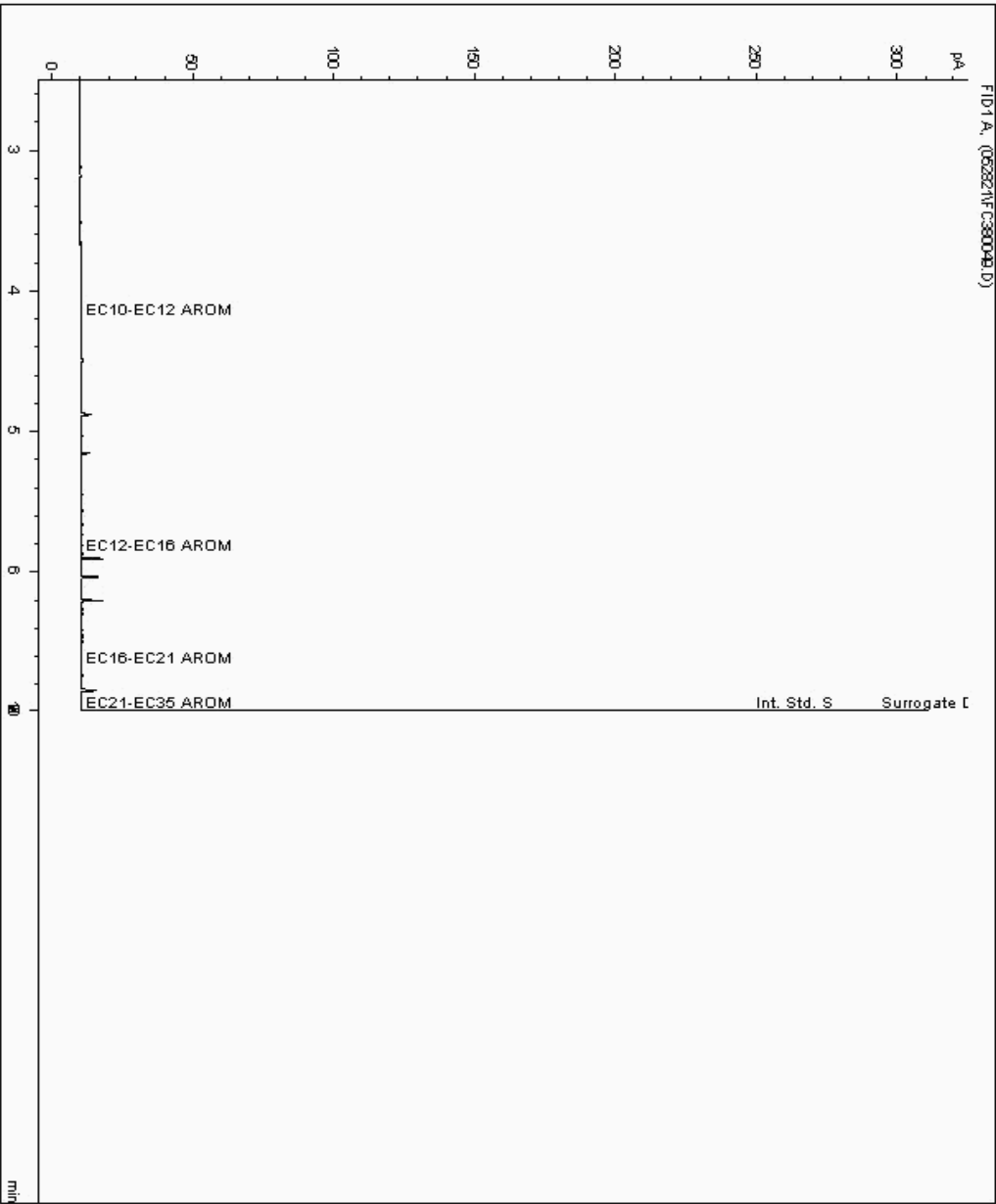
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337849 Depth : 8.50
Sample ID : BH-PTR-12

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792784-
Date Acquired : 29/05/21 07:31:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

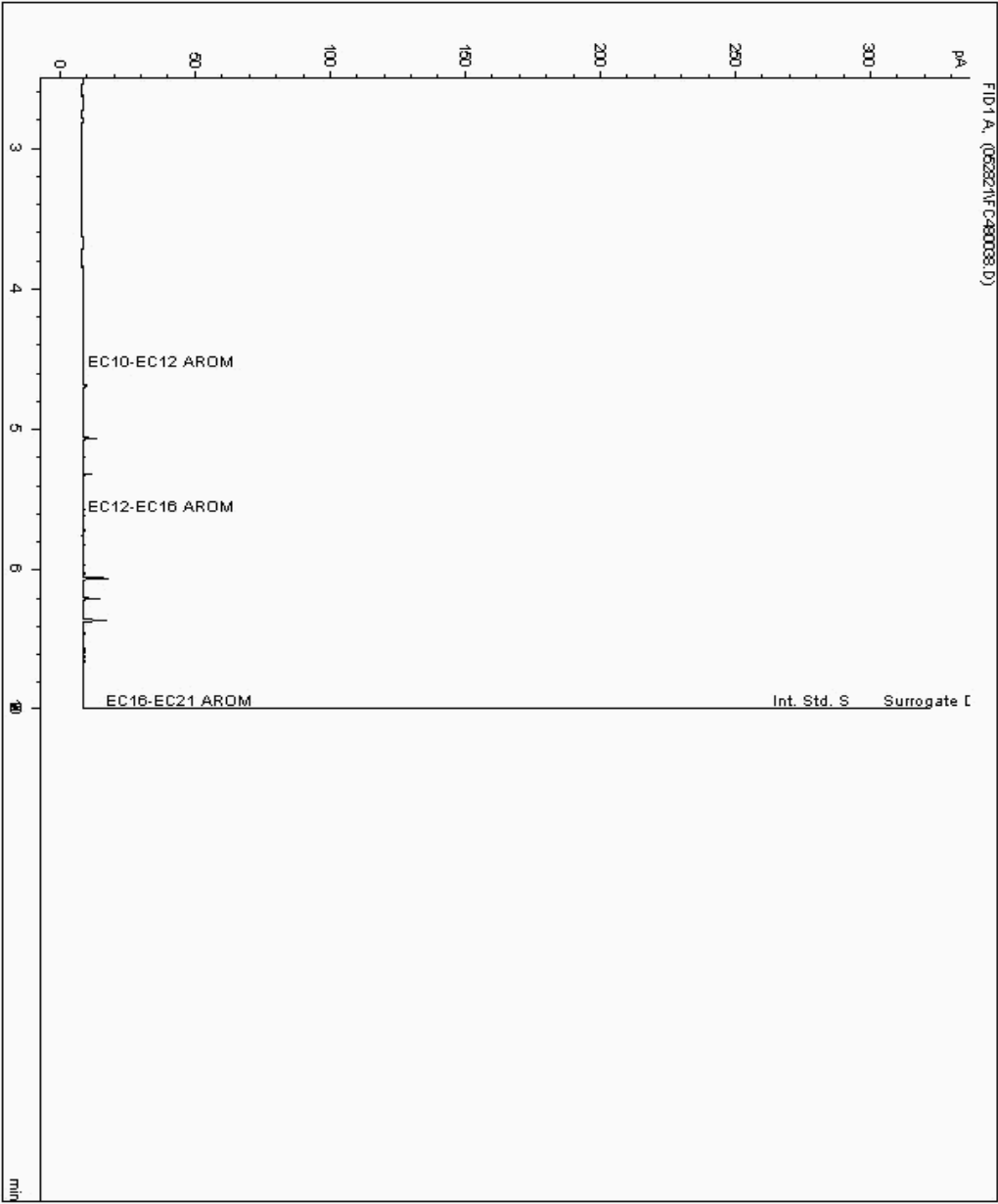
SDG: 210525-13 Client Reference: B025563 Report Number: 600807
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24337933 Depth : 2.50
Sample ID : BH-PTR-04

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22792946-
Date Acquired : 29/05/2021 06:21:12 PM
Units : ppb
Dilution : SE BH-PTR-04[2.50] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

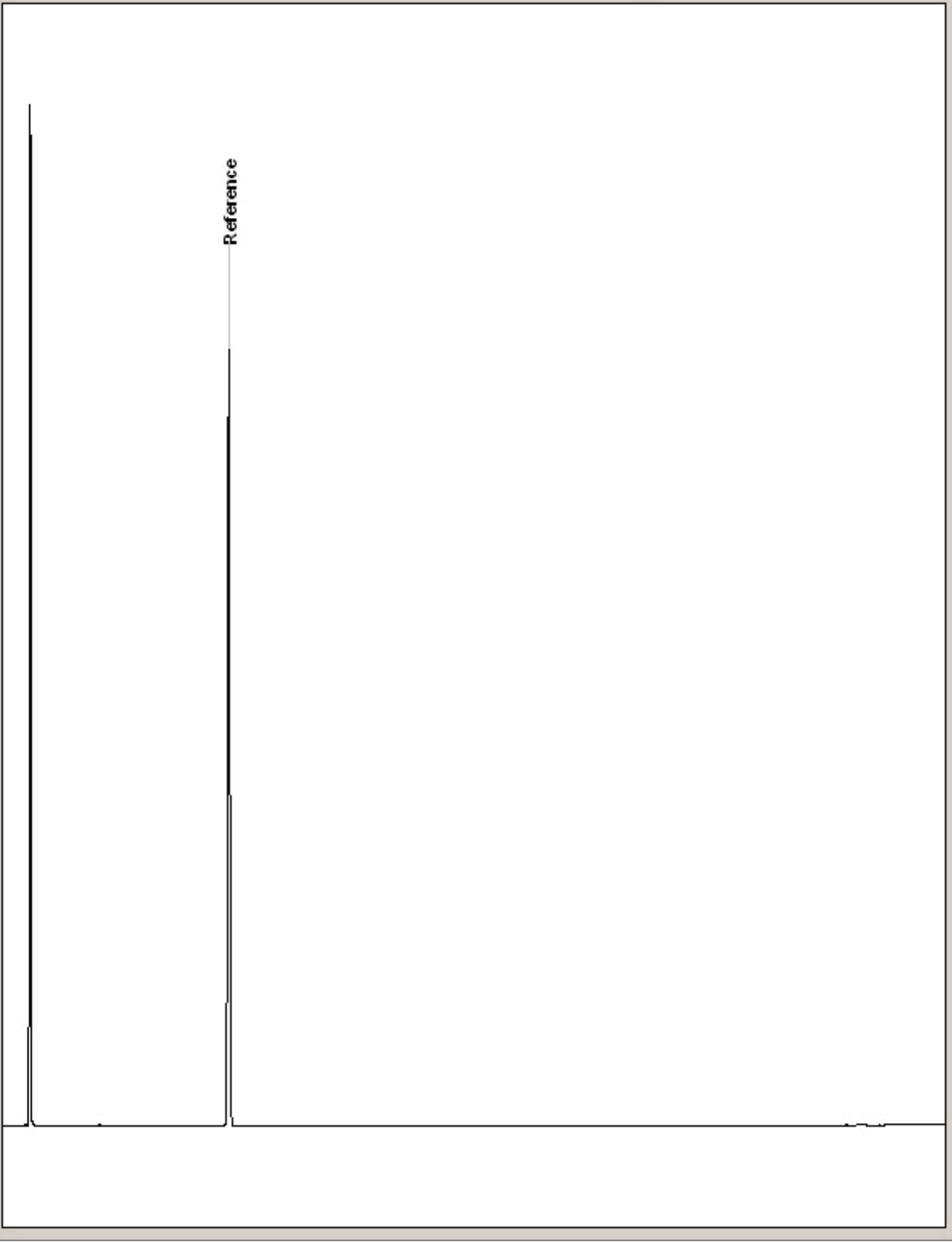
Validated

SDG: 210525-13 Client Reference: B025563 Report Number: 600807
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360828 Depth : 7.00
Sample ID : BH-PTR-07

24360828_GRO_W.DAT - HP6890 Signal 2





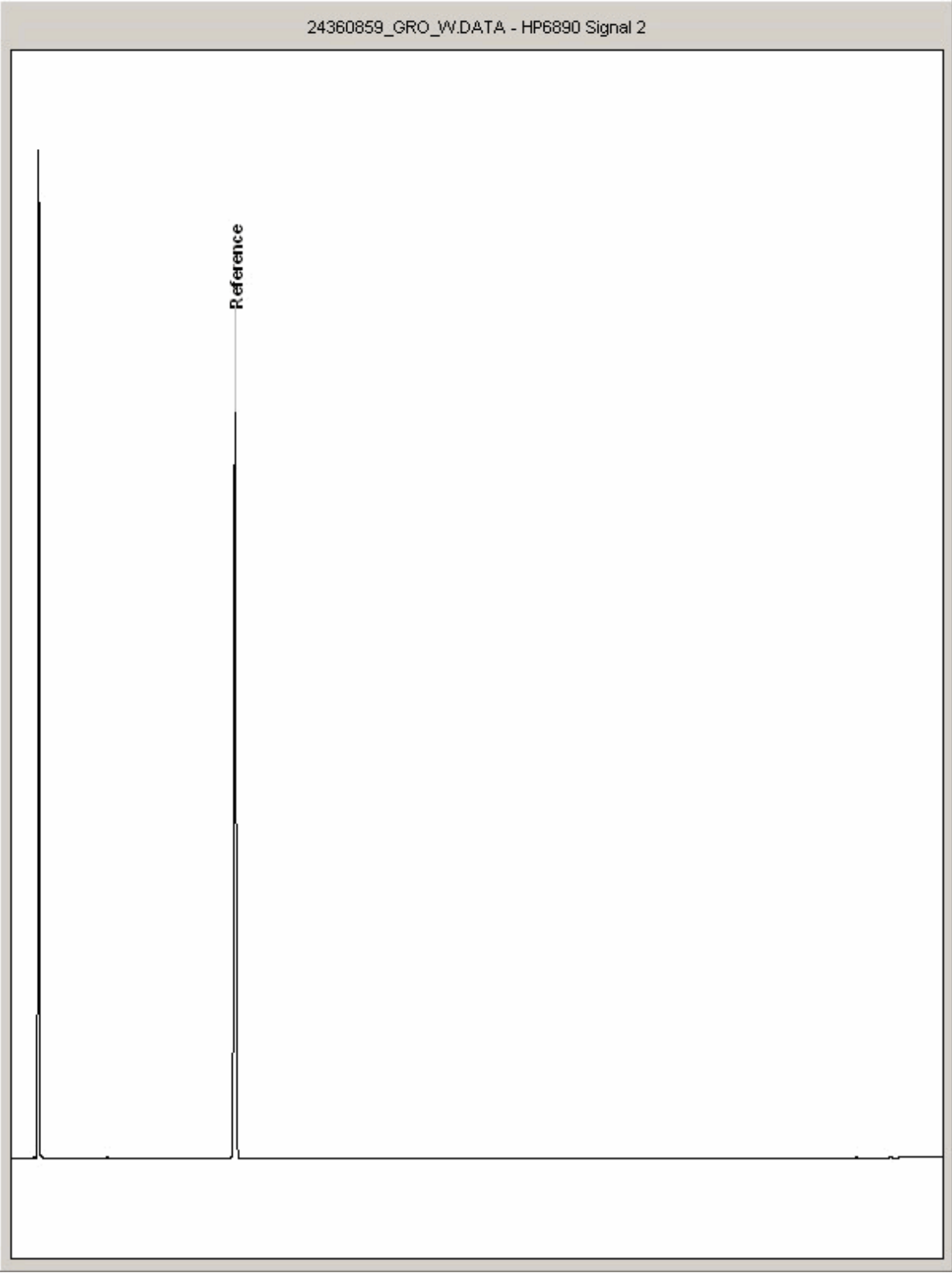
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360859 Depth : 3.00
Sample ID : BH-PTR-10



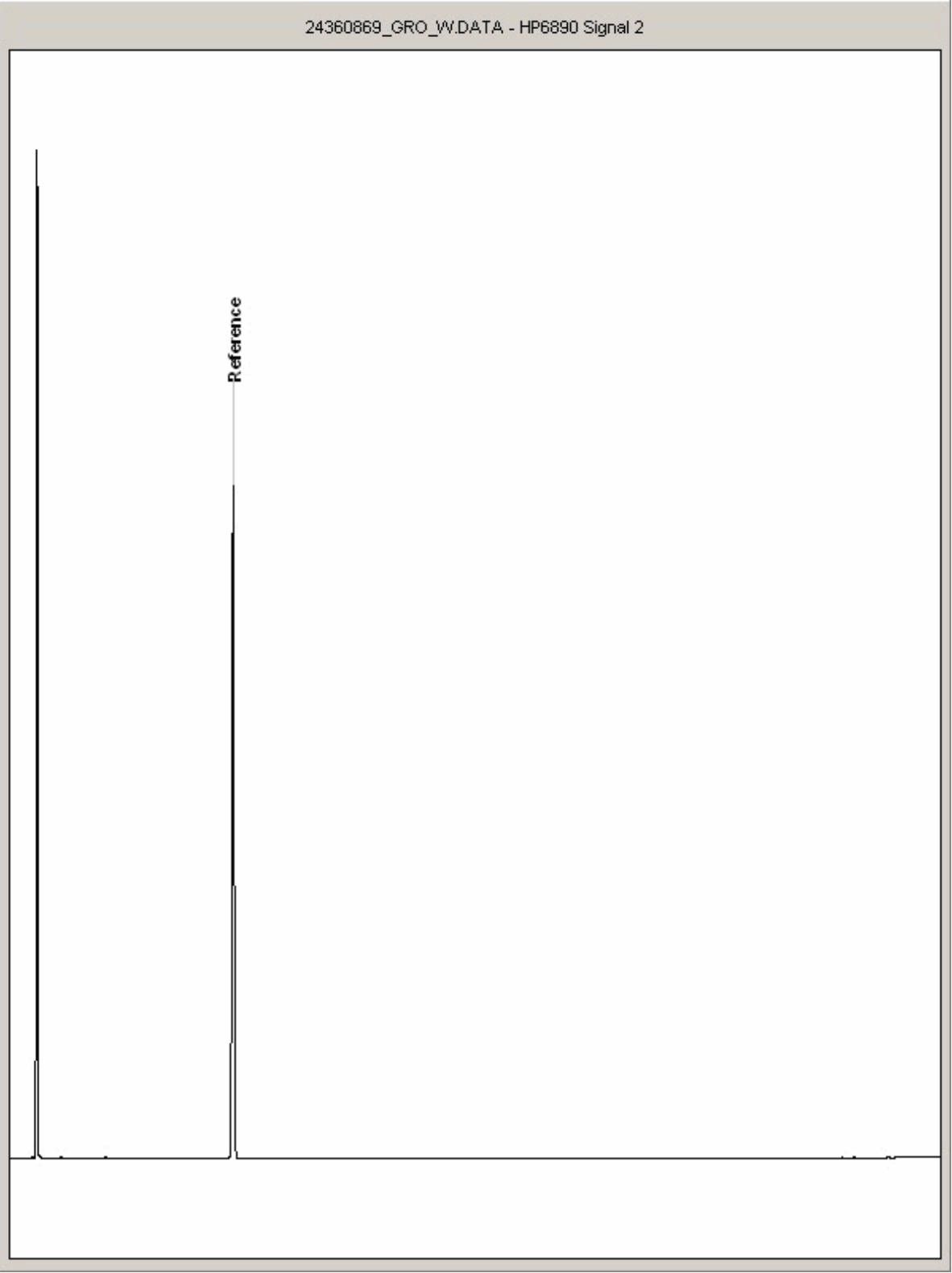
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360869 Depth : 1.30
Sample ID : BH-PTR-08 (S)





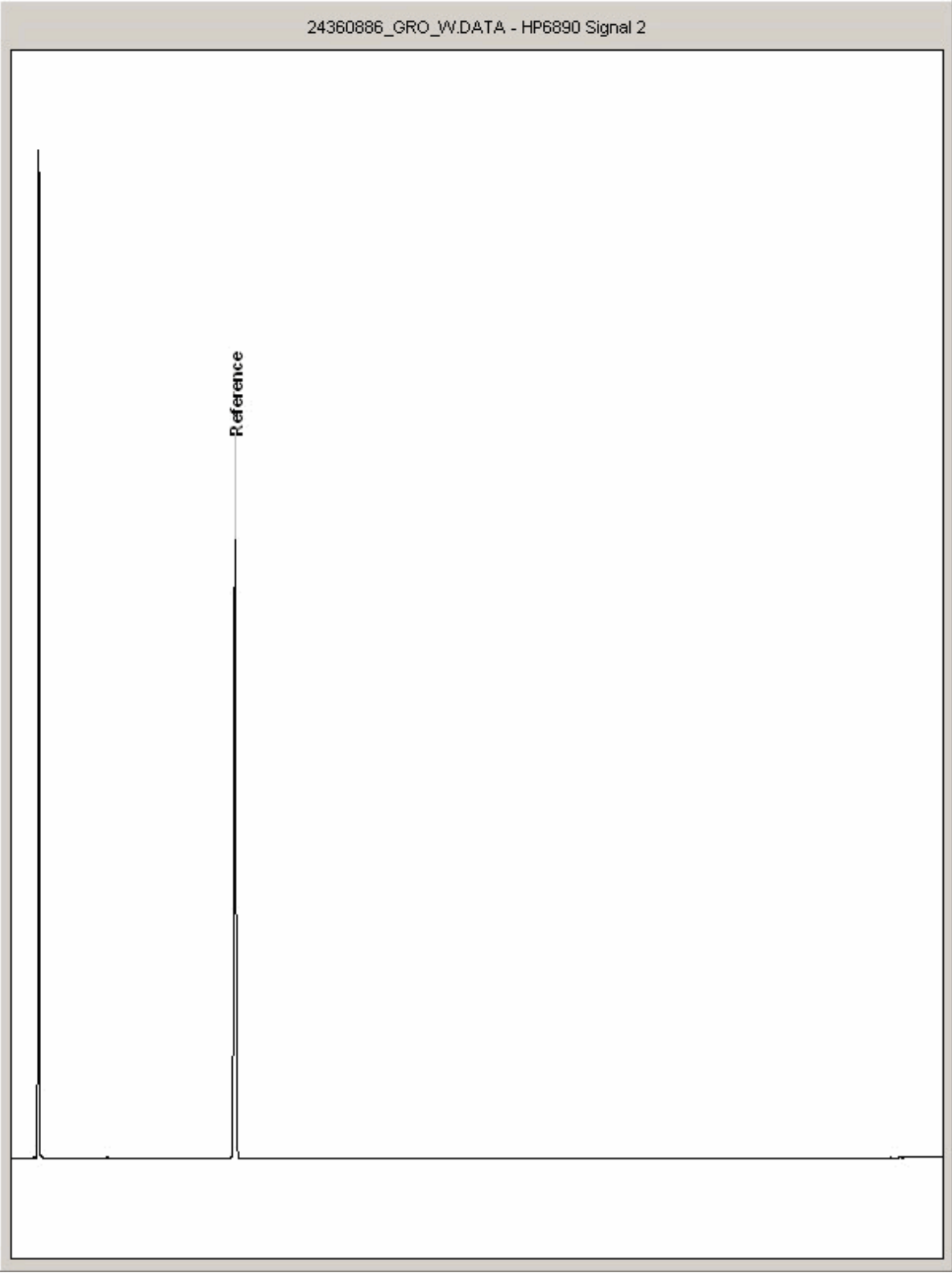
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360886 Depth : 4.00
Sample ID : BH-PTR-13



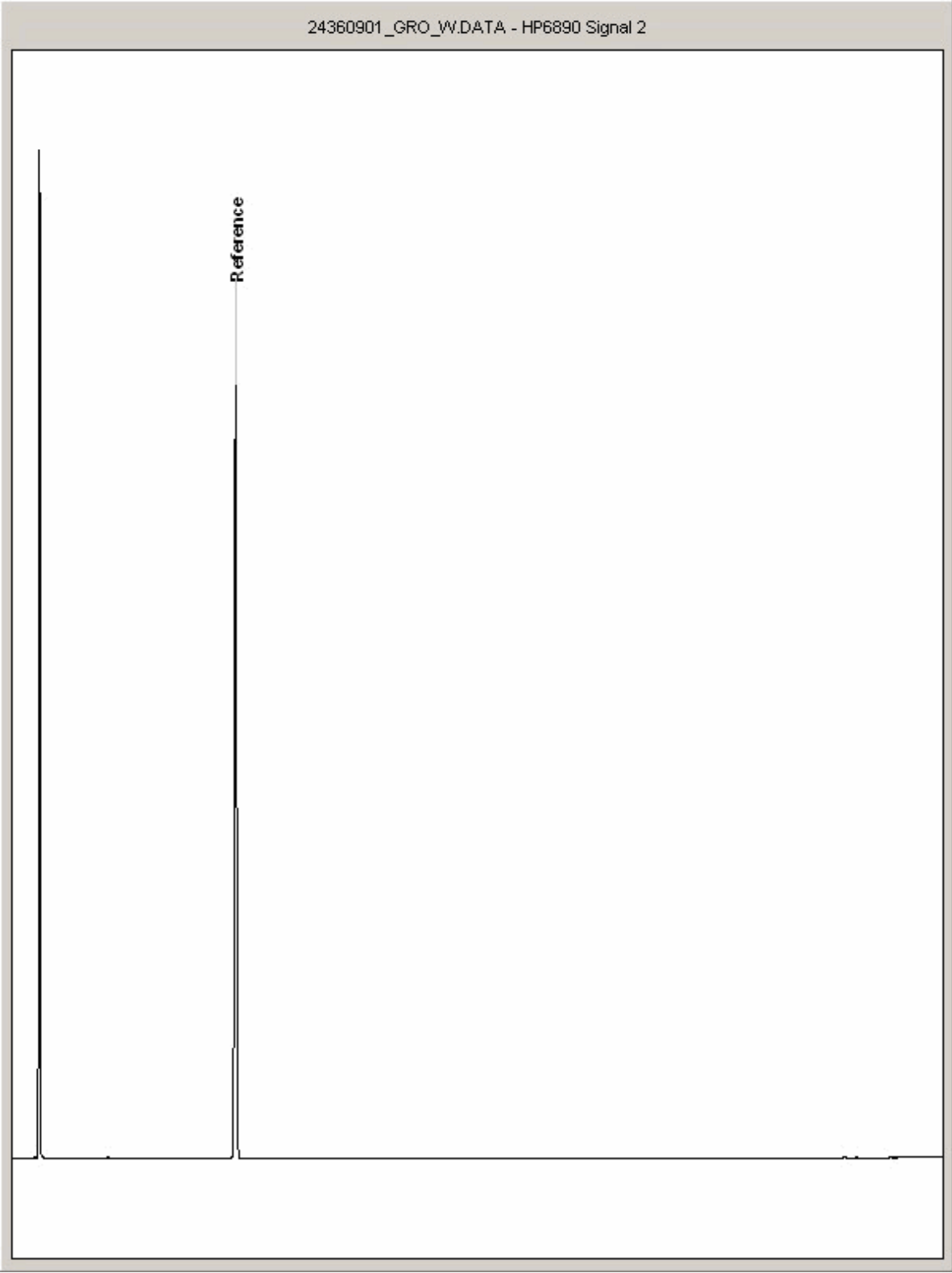
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360901 Depth : 7.50
Sample ID : BH-PTR-14





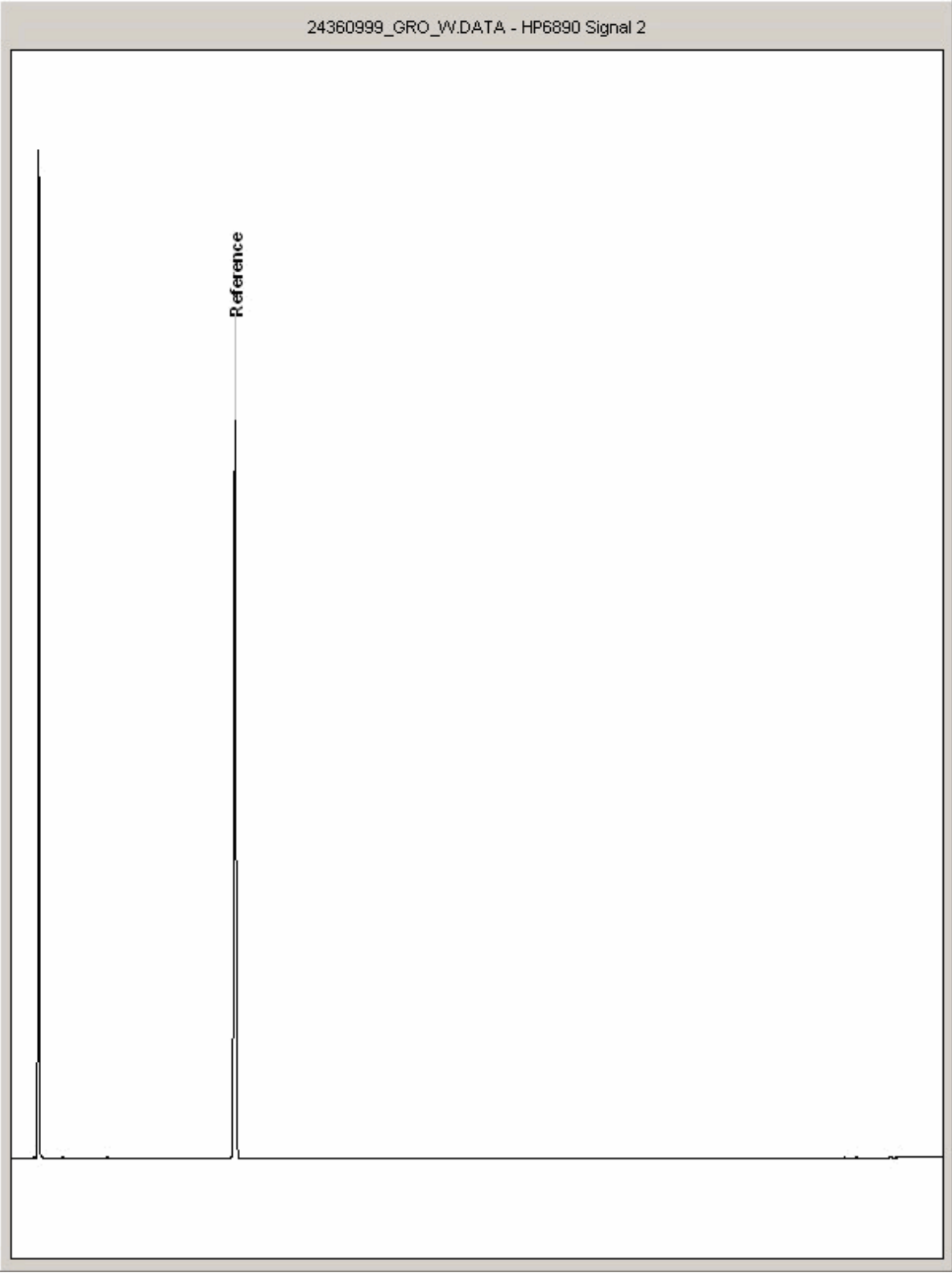
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24360999 Depth : 2.50
Sample ID : BH-PTR-04



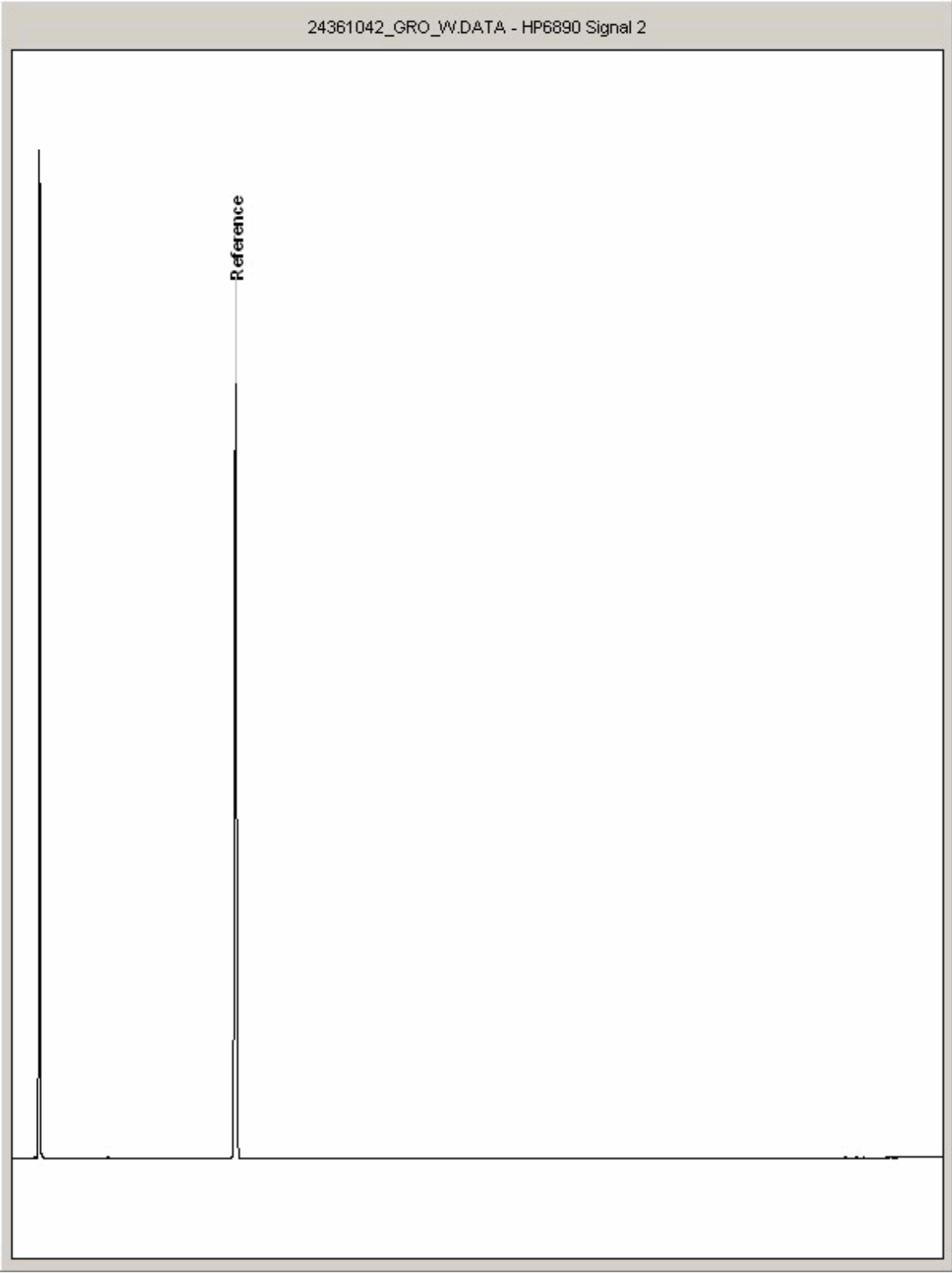
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24361042 Depth : 4.90
Sample ID : BH-PTR-03 (A)





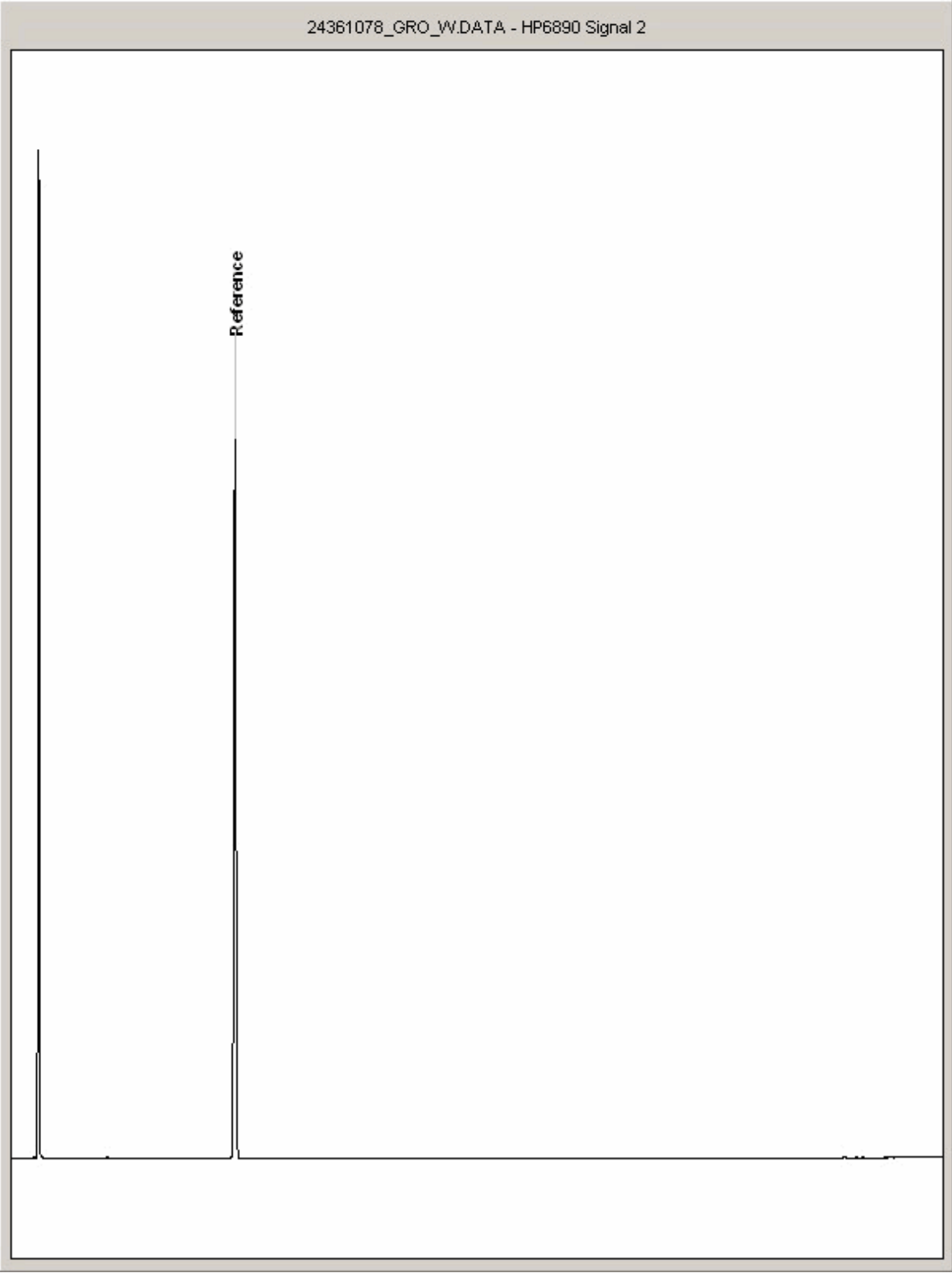
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24361078 Depth : 1.70
Sample ID : BH-PTR-02 (S)



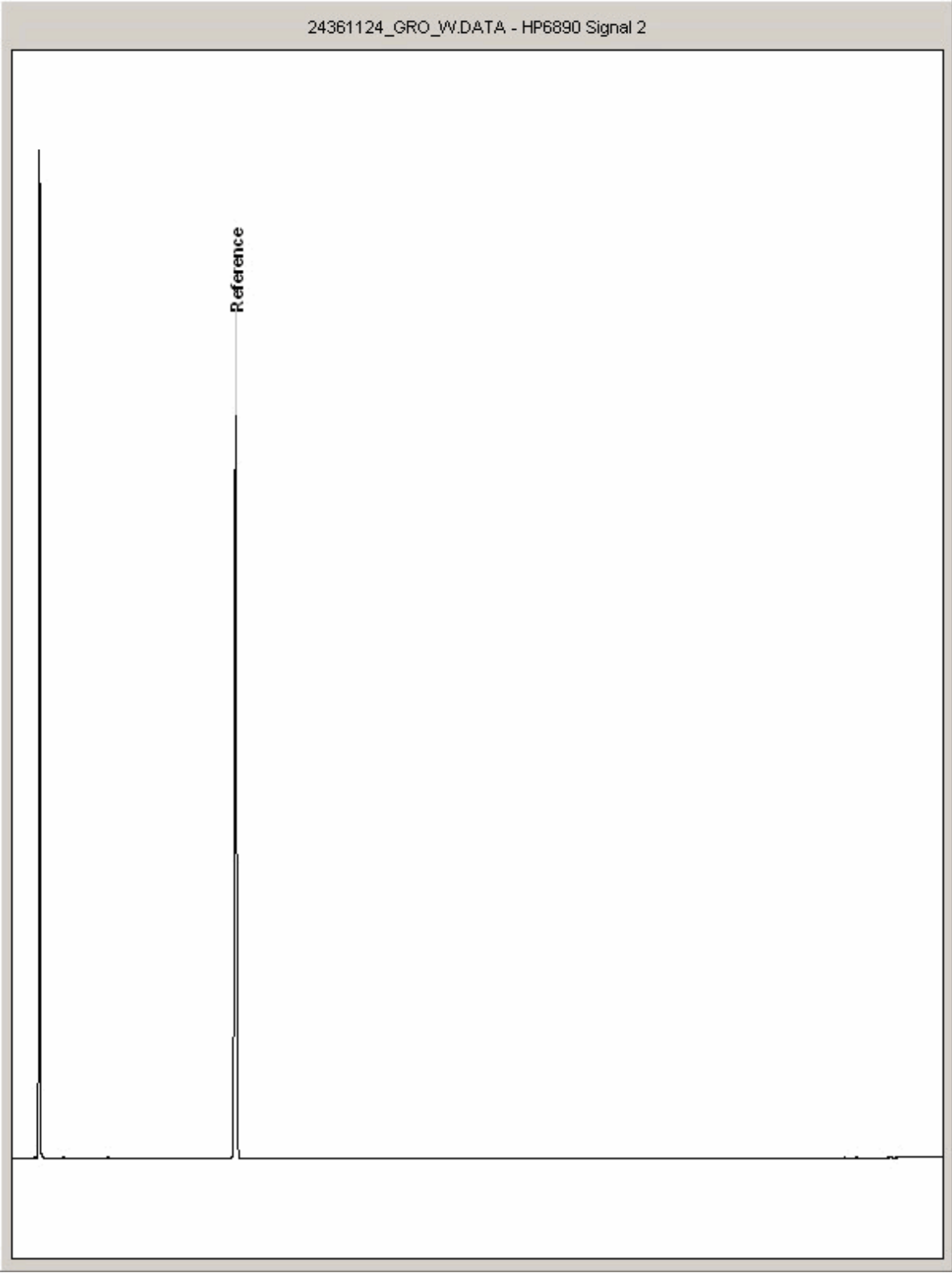
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24361124 Depth : 5.30
Sample ID : BH-PTR-02 (D)





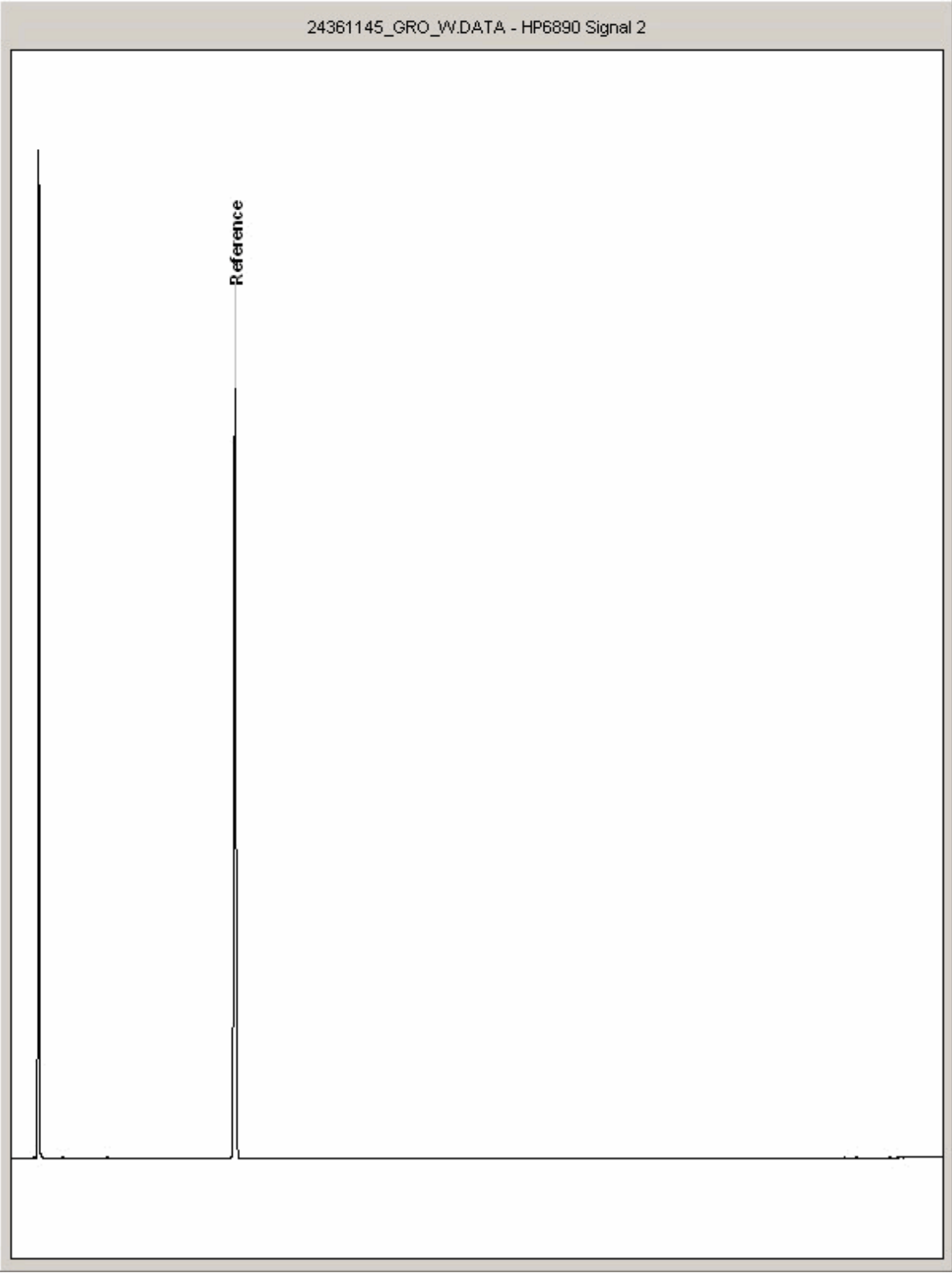
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis:	GRO by GC-FID (W)	Sample No :	24361145	Depth :	11.50
		Sample ID :	BH-PTR-08 (D)		



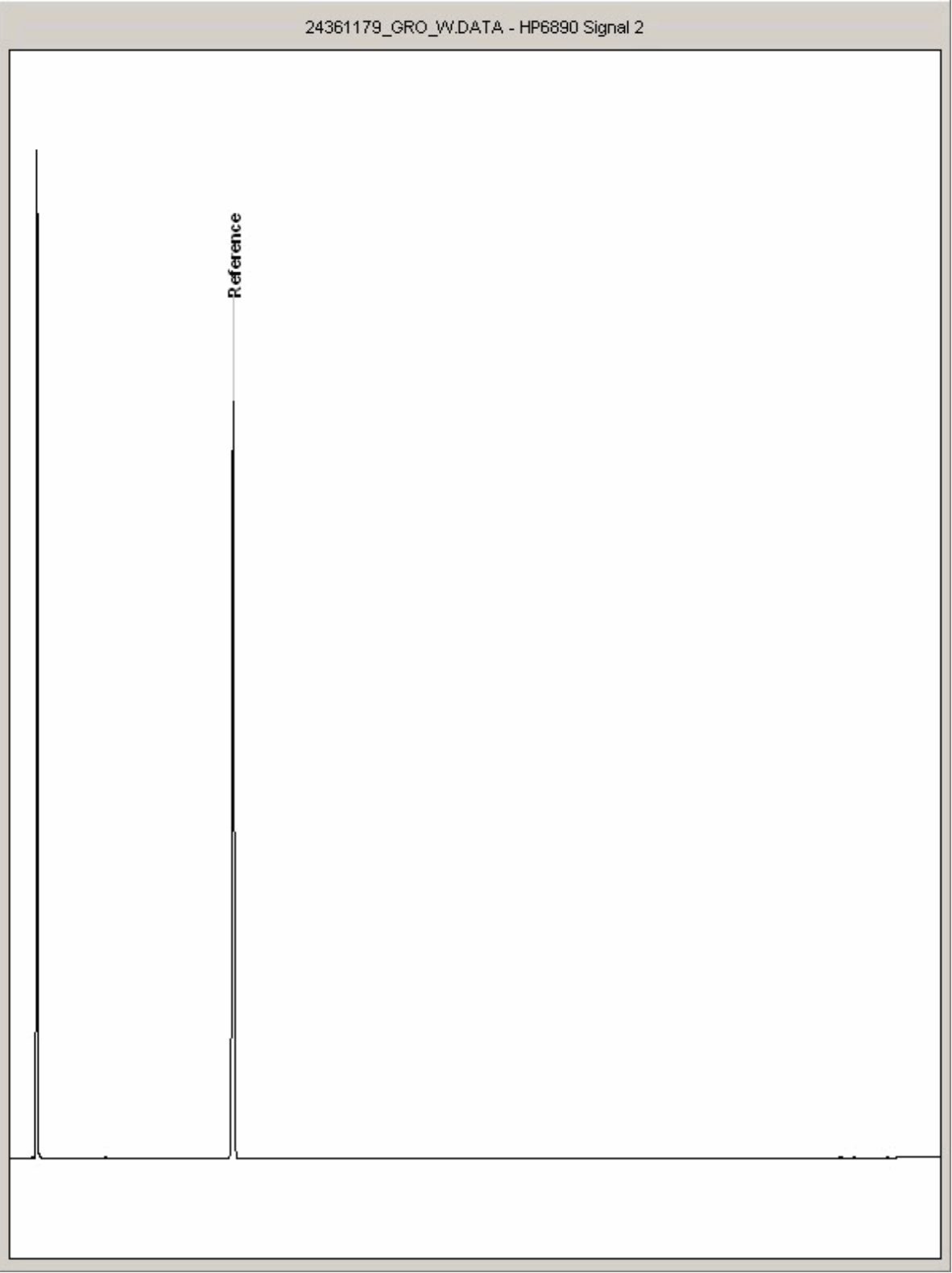
CERTIFICATE OF ANALYSIS

Validated

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Chromatogram

Analysis:	GRO by GC-FID (W)	Sample No :	24361179	Depth :	8.50
		Sample ID :	BH-PTR-12		





CERTIFICATE OF ANALYSIS

SDG:	210525-13	Client Reference:	B025563	Report Number:	600807
Location:	bridge South East Transport - Ph	Order Number:	7000964	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

General

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2017).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Tetra Tech Europe
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LS1 4ER

Attention: Richard Tonge

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)

Hawarden

Deeside

CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

CERTIFICATE OF ANALYSIS

Date of report Generation:

07 June 2021

Customer:

Tetra Tech Europe

Sample Delivery Group (SDG):

210526-32

Your Reference:

B025563

Location:

Cambridge South East Transport - Phase 2

Report No:

600828

We received 18 samples on Saturday May 22, 2021 and 18 of these samples were scheduled for analysis which was completed on Monday June 07, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager



1291

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Version: 2.8

Version Issued: 07/06/2021

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24341899	BH-BP-01	EW15	1.50	21/05/2021
24341999	BH-PTR-18	EW03	4.40	20/05/2021
24341981	BH-PTR-19	EW02	3.25	20/05/2021
24341799	BH-PTR-21	EW10	3.00	20/05/2021
24342110	BH-PTR-27	EW09	4.50	20/05/2021
24341879	BH-PTR-30	EW14	18.50	21/05/2021
24341818	BH-PTR-31	EW11	8.00	21/05/2021
24341962	BH-PTR-35	EW18	2.00	21/05/2021
24341921	BH-PTR-36	EW16	2.75	21/05/2021
24341943	BH-PTR-39	EW17	13.00	21/05/2021
24341780	BH-PTR-45	EW01	7.50	20/05/2021
24341858	BH-PTR-33D	EW13	25.00	21/05/2021
24342018	BH-PTR-41D	EW04	7.50	20/05/2021
24342055	BH-PTR-42D	EW06	6.50	20/05/2021
24342092	BH-PTR-43D	EW08	7.00	20/05/2021
24341838	BH-PTR-33S	EW12	3.00	21/05/2021
24342037	BH-PTR-41S	EW05	1.70	20/05/2021
24342073	BH-PTR-43S	EW07	2.00	20/05/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

<div>Results Legend</div> <div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div> <div>Sample Types -</div> <div>S - Soil/Solid</div> <div>UNS - Unspecified Solid</div> <div>GW - Ground Water</div> <div>SW - Surface Water</div> <div>LE - Land Leachate</div> <div>PL - Prepared Leachate</div> <div>PR - Process Water</div> <div>SA - Saline Water</div> <div>TE - Trade Effluent</div> <div>TS - Treated Sewage</div> <div>US - Untreated Sewage</div> <div>RE - Recreational Water</div> <div>DW - Drinking Water Non-regulatory</div> <div>UNL - Unspecified Liquid</div> <div>SL - Sludge</div> <div>G - Gas</div> <div>OTH - Other</div>	Lab Sample No(s)		24341799															
	Customer Sample Reference		BH-PTTR-21															
	AGS Reference		EW02															
	Depth (m)		3.00															
	Container		Vial (ALE297)	NaOH (ALE245)	HN03 Unfiltered (ALE204)	HN03 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	0.5l glass bottle (ALE227)	Vial (ALE297)	NaOH (ALE245)	HN03 Unfiltered (ALE204)	HN03 Filtered (ALE204)	H2SO4 (ALE244)	500ml Plastic (ALE208)	0.5l glass bottle (ALE227)		
	Sample Type		GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW		
			GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW		
Alkalinity as CaCO3	All	NDPs: 0 Tests: 17																
Ammonium Low	All	NDPs: 0 Tests: 17																
Anions by Kone (w)	All	NDPs: 0 Tests: 17																
Chromium III	All	NDPs: 0 Tests: 17																
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 17																
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 17																
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17																
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17																
Fluoride	All	NDPs: 0 Tests: 17																
GRO by GC-FID (W)	All	NDPs: 0 Tests: 17																
Low Level Cyanide (W)	All	NDPs: 0 Tests: 17																
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 17																
Mercury Dissolved	All	NDPs: 0 Tests: 17																
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 17																
pH Value	All	NDPs: 0 Tests: 17																



CERTIFICATE OF ANALYSIS

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible][illegible]

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

24341818	BH-PTR-31	EW11	8.00	HNO3 Unfiltered (ALE204)	GW					X	
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW		X				
				500ml Plastic (ALE208)	GW				X		
				0.5l glass bottle (ALE227)	GW					X	
24341879	BH-PTR-30	EW14	18.50	Vial (ALE297)	GW						X
				NaOH (ALE245)	GW						
				HNO3 Unfiltered (ALE204)	GW				X		
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW		X				
				500ml Plastic (ALE208)	GW			X			
				0.5l glass bottle (ALE227)	GW				X		
24342110	BH-PTR-27	EW09	4.50	Vial (ALE297)	GW					X	
				NaOH (ALE245)	GW						X
				HNO3 Unfiltered (ALE204)	GW				X		
				HNO3 Filtered (ALE204)	GW						
				H2SO4 (ALE244)	GW		X				
				500ml Plastic (ALE208)	GW			X			
				0.5l glass bottle (ALE227)	GW					X	

[illegible]

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container										Sample Type	
<div><div>X</div>Test</div> <div><div>N</div>No Determination Possible</div>																						
Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other																						
			24341818		BH-PTR-31		EW11		8.00		NaOH (ALE245) Vial (ALE297)										GW	
			24341862		BH-PTR-35		EW18		2.00		NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)										GW	
			24341921		BH-PTR-36		EW16		2.75		NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)										GW	
			24341943		BH-PTR-39		EW17		13.00		HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)										GW	
Phenols by HPLC (W)			All		NDPs: 0 Tests: 17																	
Sulphur Dissolved by ICP-OES			All		NDPs: 0 Tests: 17																	
Total Dissolved Solids			All		NDPs: 0 Tests: 17																	
Total Metals by ICP-MS			All		NDPs: 0 Tests: 17																	
TPH CWG (W)			All		NDPs: 0 Tests: 17																	
VOC MS (W)			All		NDPs: 0 Tests: 17																	

[illegible]

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

24342018	BH-PTR-41D	EW04	7.50	H2SO4 (ALE24)	GW	X							
				500ml Plastic (ALE208)	GW								
				0.5l glass bottle (ALE227)	GW			X					
24341858	BH-PTR-33D	EW13	25.00	Vial (ALE297)	GW							X	
				NaOH (ALE245)	GW								X
				HNO3 Unfiltered (ALE204)	GW					X			
				HNO3 Filtered (ALE204)	GW								
				H2SO4 (ALE244)	GW	X							
				500ml Plastic (ALE208)	GW			X					
				0.5l glass bottle (ALE227)	GW					X			
24341780	BH-PTR-45	EW01	7.50	Vial (ALE297)	GW							X	
				NaOH (ALE245)	GW								X
				HNO3 Unfiltered (ALE204)	GW					X			
				HNO3 Filtered (ALE204)	GW								
				H2SO4 (ALE244)	GW	X							
				500ml Plastic (ALE208)	GW			X					
				0.5l glass bottle (ALE227)	GW							X	
24341943	BH-PTR-39	EW17	13.00	Vial (ALE297)	GW							X	
				NaOH (ALE245)	GW								X

<div>Results Legend</div> <div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div> <div>Sample Types -</div> <div>S - Soil/Solid</div> <div>UNS - Unspecified Solid</div> <div>GW - Ground Water</div> <div>SW - Surface Water</div> <div>LE - Land Leachate</div> <div>PL - Prepared Leachate</div> <div>PR - Process Water</div> <div>SA - Saline Water</div> <div>TE - Trade Effluent</div> <div>TS - Treated Sewage</div> <div>US - Untreated Sewage</div> <div>RE - Recreational Water</div> <div>DW - Drinking Water Non-regulatory</div> <div>UNL - Unspecified Liquid</div> <div>SL - Sludge</div> <div>G - Gas</div> <div>OTH - Other</div>	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
									H2SO4 (ALE24)		GW	
									500ml Plastic (ALE208)		GW	
									0.5l glass bottle (ALE227)		GW	
									Vial (ALE297)		GW	
									NaOH (ALE245)		GW	
									HNO3 Unfiltered (ALE204)		GW	
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
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								500ml Plastic (ALE208)		GW		
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								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
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								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
								H2SO4 (ALE244)		GW		
								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		
								HNO3 Unfiltered (ALE204)		GW		
								HNO3 Filtered (ALE204)		GW		
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								500ml Plastic (ALE208)		GW		
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								500ml Plastic (ALE208)		GW		
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								500ml Plastic (ALE208)		GW		
								0.5l glass bottle (ALE227)		GW		
								Vial (ALE297)		GW		
								NaOH (ALE245)		GW		



Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible]

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

24342073	BH-PTR-43S	EW07	2.00	Vial (ALE297)	GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</
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Results Legend			Customer Sample Ref.	BH-PTR-18	BH-PTR-19	BH-PTR-21	BH-PTR-27	BH-PTR-30	BH-PTR-31
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		4.40 Ground Water (GW) 20/05/2021	3.25 Ground Water (GW) 20/05/2021	3.00 Ground Water (GW) 20/05/2021	4.50 Ground Water (GW) 20/05/2021	18.50 Ground Water (GW) 21/05/2021	8.00 Ground Water (GW) 21/05/2021
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
1-445@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	400	1690	1330	1700	510	2050	
Carbon, Organic (diss.filt)	<3 mg/l	TM090	3.32	3.71	3.41	<3	<3	<3	
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.024 #	0.022 #	0.022 #	<0.01 #	0.01 #	0.021 #	
Fluoride	<0.5 mg/l	TM104	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	
Dissolved solids, Total (meter)	<5 mg/l	TM123	732 #	818 #	559 #	577 #	449 #	408 #	
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	
Antimony (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5 #	0.594 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	
Barium (diss.filt)	<0.2 µg/l	TM152	42.4 #	37.2 #	35.9 #	57.7 #	50.8 #	45.4 #	
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	
Boron (diss.filt)	<10 µg/l	TM152	29.6 #	44 #	29.1 #	32.3 #	27 #	16.8 #	
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Copper (diss.filt)	<0.3 µg/l	TM152	2.53 #	3.04 #	1.11 #	0.38 #	7.46 #	<0.3 #	
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 #	1.28 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	
Manganese (diss.filt)	<3 µg/l	TM152	96.9 #	76.5 #	12 #	24.7 #	5.46 #	10.8 #	
Molybdenum (diss.filt)	<3 µg/l	TM152	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Nickel (diss.filt)	<0.4 µg/l	TM152	2.23 #	2.18 #	1.41 #	2.99 #	1.51 #	0.892 #	
Selenium (diss.filt)	<1 µg/l	TM152	<1 #	1.33 #	2.07 #	<1 #	<1 #	<1 #	
Vanadium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Zinc (diss.filt)	<1 µg/l	TM152	9.24 #	22.5 #	2.33 #	3.82 #	6.87 #	1.71 #	
Sodium (Dis.Filt)	<0.076 mg/l	TM152	47.4 #	16.6 #	9.56 #	17 #	11.5 #	8.97 #	
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	4.52 #	4.24 #	2.22 #	6.83 #	5.41 #	5.08 #	
Calcium (Dis.Filt)	<0.2 mg/l	TM152	159 #	258 #	151 #	145 #	118 #	110 #	
Iron (Dis.Filt)	<0.019 mg/l	TM152	<0.019 #	0.493 #	0.0246 #	<0.019 #	0.0203 #	0.0452 #	
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	586 #	4450 #	1780 #	3790 #	770 #	3640 #	
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	
Sulphate	<2 mg/l	TM184	122 #	87 #	35.5 #	84.7 #	35.8 #	18.8 #	
Chloride	<2 mg/l	TM184	101 #	101 #	47.2 #	53.9 #	29.2 #	21 #	
Nitrate as NO3	<0.3 mg/l	TM184	76 #	97.4 #	57.3 #	13.6 #	28.6 #	33.7 #	
Sulphur Dissolved	<1 mg/l	TM228	33.8	24.5	9.74	24.7	9.97	5.57	
pH	<1 pH Units	TM256	7.48 #	7.51 #	7.45 #	7.36 #	7.51 #	7.59 #	

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Customer Sample Ref.		BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-45	BH-PTR-33D	BH-PTR-41D
# M aq diss.filt tot.unfilt + *	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery Trigger breach confirmed Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 Ground Water (GW) 21/05/2021 22/05/2021 210526-32 24341962 EW18	2.75 Ground Water (GW) 21/05/2021 22/05/2021 210526-32 24341921 EW16	13.00 Ground Water (GW) 21/05/2021 22/05/2021 210526-32 24341943 EW17	7.50 Ground Water (GW) 20/05/2021 22/05/2021 210526-32 24341780 EW01	25.00 Ground Water (GW) 21/05/2021 22/05/2021 210526-32 24341858 EW13	7.50 Ground Water (GW) 20/05/2021 22/05/2021 210526-32 24342018 EW04		
Component	LOD/Units	Method								
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	8300	2800	6000	2050	330	7150		
Carbon, Organic (diss.filt)	<3 mg/l	TM090	3.05	6.4	<3	4.22	<3	<3		
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.718 #	0.137 #	<0.01 #	0.014 #	0.018 #	0.01 #		
Fluoride	<0.5 mg/l	TM104	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #		
Dissolved solids, Total (meter)	<5 mg/l	TM123	566 #	984 #	422 #	856 #	406 #	458 #		
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
Antimony (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #		
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5 #	1.37 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #		
Barium (diss.filt)	<0.2 µg/l	TM152	46.3 #	117 #	42.7 #	41.2 #	49.3 #	44.2 #		
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #		
Boron (diss.filt)	<10 µg/l	TM152	37.9 #	51.4 #	24.2 #	66.7 #	14 #	26.7 #		
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #		
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #		
Copper (diss.filt)	<0.3 µg/l	TM152	<0.3 #	0.608 #	<0.3 #	2.7 #	0.409 #	<0.3 #		
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 #	<0.2 #	0.292 #	0.22 #	<0.2 #	<0.2 #		
Manganese (diss.filt)	<3 µg/l	TM152	47.7 #	49.6 #	7.06 #	3.62 #	4.06 #	5.83 #		
Molybdenum (diss.filt)	<3 µg/l	TM152	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #		
Nickel (diss.filt)	<0.4 µg/l	TM152	1.07 #	3.48 #	0.976 #	2.4 #	0.945 #	1.97 #		
Selenium (diss.filt)	<1 µg/l	TM152	4.15 #	3.25 #	<1 #	<1 #	<1 #	<1 #		
Vanadium (diss.filt)	<1 µg/l	TM152	<1 #	1.19 #	<1 #	<1 #	<1 #	<1 #		
Zinc (diss.filt)	<1 µg/l	TM152	3.25 #	10.1 #	8.15 #	5.97 #	4.43 #	12.7 #		
Sodium (Dis.Filt)	<0.076 mg/l	TM152	17.8 #	48.6 #	9.18 #	25.7 #	8.62 #	13 #		
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	3.14 #	3.22 #	4.3 #	6.36 #	5.45 #	4.63 #		
Calcium (Dis.Filt)	<0.2 mg/l	TM152	141 #	260 #	108 #	224 #	106 #	126 #		
Iron (Dis.Filt)	<0.019 mg/l	TM152	<0.019 #	0.0196 #	0.0867 #	<0.019 #	<0.019 #	<0.019 #		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	8600	7970	6240	1480	460	9210		
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	0.0584 #		
Sulphate	<2 mg/l	TM184	53.8 #	165 #	15.8 #	134 #	18.3 #	25.3 #		
Chloride	<2 mg/l	TM184	42.7 #	108 #	20.8 #	84.2 #	19.5 #	22.1 #		
Nitrate as NO3	<0.3 mg/l	TM184	72.4	61.2	43.7	187	35.7	13.6		
Sulphur Dissolved	<1 mg/l	TM228	15	45.6	4.37	36.9	5.15	7.22		
pH	<1 pH Units	TM256	7.58 #	7.41 #	7.52 #	7.28 #	7.61 #	7.45 #		

		Validated					
SDG: 210526-32 Client Reference: B025563 Report Number: 600828		SDG: 210526-32 Client Reference: B025563 Report Number: 600828					
Location: Cambridge South East TraOrder Number: 7000964		Location: Cambridge South East TraOrder Number: 7000964					
Superseded Report:		Superseded Report:					
Results Legend		Results Legend					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-4456 Sample deviation (see appendix)		# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-4456 Sample deviation (see appendix)					
Customer Sample Ref.		Customer Sample Ref.					
Depth (m)		Depth (m)					
Sample Type		Sample Type					
Date Sampled		Date Sampled					
Sampled Time		Sampled Time					
Date Received		Date Received					
SDG Ref		SDG Ref					
Lab Sample No.(s)		Lab Sample No.(s)					
AGS Reference		AGS Reference					
Component		Component					
LOD/Units		LOD/Units					
Method		Method					
Resorcinol		Resorcinol					
Catechol		Catechol					
Phenol		Phenol					
Cresols		Cresols					
Xylenols		Xylenols					
1-Naphthol		1-Naphthol					
2,3,5-Trimethylphenol		2,3,5-Trimethylphenol					
2-Isopropylphenol		2-Isopropylphenol					
Phenols, Total Detected 8 Speciated		Phenols, Total Detected 8 Speciated					
Cyanide, Total (low level)		Cyanide, Total (low level)					
Cyanide, Free (low level)		Cyanide, Free (low level)					
Low Level Hexavalent Chromium		Low Level Hexavalent Chromium					
		</					

		Validated					
SDG: 210526-32		Client Reference: B025563		Report Number: 600828			
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:			

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

TPH CWG (W)

Results Legend		Customer Sample Ref.						
#	ISO17025 accredited.		BH-PTR-18	BH-PTR-19	BH-PTR-21	BH-PTR-27	BH-PTR-30	BH-PTR-31
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.40	3.25	3.00	4.50	18.50	8.00
aq	Aqueous / settled sample.		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
dis.filt	Dissolved / filtered sample.		20/05/2021	20/05/2021	20/05/2021	20/05/2021	21/05/2021	21/05/2021
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021
(F)	Trigger breach confirmed		210526-32	210526-32	210526-32	210526-32	210526-32	210526-32
1-445@	Sample deviation (see appendix)		24341999	24341981	24341799	24342110	24341879	24341818
Component		LOD/Units	Method					
GRO Surrogate % recovery**		%	TM245	98	96	108	99	98
GRO >C5-C12		<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #
Methyl tertiary butyl ether (MTBE)		<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #
Benzene		<7 µg/l	TM245	<7 #	<7 #	<7 #	<7 #	<7 #
Toluene		<4 µg/l	TM245	<4 #	<4 #	<4 #	<4 #	<4 #
Ethylbenzene		<5 µg/l	TM245	<5 #	<5 #	<5 #	<5 #	<5 #
m,p-Xylene		<8 µg/l	TM245	<8 #	<8 #	<8 #	<8 #	<8 #
o-Xylene		<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #
Sum of detected Xylenes		<11 µg/l	TM245	<11	<11	<11	<11	<11
Sum of detected BTEX		<28 µg/l	TM245	<28	<28	<28	<28	<28
Aliphatics >C5-C6		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C6-C8		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C8-C10		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C10-C12		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C12-C16 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aliphatics >C16-C21 (aq)		<10 µg/l	TM174	<10	20	<10	<10	<10
Aliphatics >C21-C35 (aq)		<10 µg/l	TM174	<10	156	<10	<10	<10
Total Aliphatics >C12-C35 (aq)		<10 µg/l	TM174	<10	176	<10	<10	<10
Aromatics >EC5-EC7		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC7-EC8		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC8-EC10		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC10-EC12		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aromatics >EC16-EC21 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aromatics >EC21-EC35 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Total Aromatics >EC12-EC35 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Total Aliphatics & Aromatics >C5-35 (aq)		<10 µg/l	TM174	<10	176	<10	<10	<10
Aliphatics >C16-C35 Aqueous		<10 µg/l	TM174	<10	176	<10	<10	<10

TPH CWG (W)

Results Legend		Customer Sample Ref.						
#	ISO17025 accredited.		BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-45	BH-PTR-33D	BH-PTR-41D
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00	2.75	13.00	7.50	25.00	7.50
aq	Aqueous / settled sample.		Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
dis.filt	Dissolved / filtered sample.		21/05/2021	21/05/2021	21/05/2021	20/05/2021	21/05/2021	20/05/2021
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021
(F)	Trigger breach confirmed		210526-32	210526-32	210526-32	210526-32	210526-32	210526-32
1-445@	Sample deviation (see appendix)		24341962	24341921	24341943	24341780	24341858	24342018
Component		LOD/Units	Method					
GRO Surrogate % recovery**		%	TM245	101	99	99	97	105
GRO >C5-C12		<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #
Methyl tertiary butyl ether (MTBE)		<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #
Benzene		<7 µg/l	TM245	<7 #	<7 #	<7 #	<7 #	<7 #
Toluene		<4 µg/l	TM245	<4 #	<4 #	<4 #	<4 #	<4 #
Ethylbenzene		<5 µg/l	TM245	<5 #	<5 #	<5 #	<5 #	<5 #
m,p-Xylene		<8 µg/l	TM245	<8 #	<8 #	<8 #	<8 #	<8 #
o-Xylene		<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #
Sum of detected Xylenes		<11 µg/l	TM245	<11	<11	<11	<11	<11
Sum of detected BTEX		<28 µg/l	TM245	<28	<28	<28	<28	<28
Aliphatics >C5-C6		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C6-C8		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C8-C10		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C10-C12		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aliphatics >C12-C16 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aliphatics >C16-C21 (aq)		<10 µg/l	TM174	31	<10	<10	<10	<10
Aliphatics >C21-C35 (aq)		<10 µg/l	TM174	80	<10	<10	<10	22
Total Aliphatics >C12-C35 (aq)		<10 µg/l	TM174	111	44	<10	<10	22
Aromatics >EC5-EC7		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC7-EC8		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC8-EC10		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC10-EC12		<10 µg/l	TM245	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aromatics >EC16-EC21 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Aromatics >EC21-EC35 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Total Aromatics >EC12-EC35 (aq)		<10 µg/l	TM174	<10	<10	<10	<10	<10
Total Aliphatics & Aromatics >C5-35 (aq)		<10 µg/l	TM174	111	44	<10	<10	22
Aliphatics >C16-C35 Aqueous		<10 µg/l	TM174	111	44	<10	<10	22

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

TPH CWG (W)

Results Legend			Customer Sample Ref.	BH-PTR-42D	BH-PTR-43D	BH-PTR-33S	BH-PTR-41S	BH-PTR-43S	
# M aq diss.flit tot.unflit + ** (F) 1-4+5/6	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery Trigger breach confirmed Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	6.50 Ground Water (GW) 20/05/2021 . 22/05/2021 210526-32 24342055 EW06	7.00 Ground Water (GW) 20/05/2021 . 22/05/2021 210526-32 24342092 EW08	3.00 Ground Water (GW) 21/05/2021 . 22/05/2021 210526-32 24341838 EW12	1.70 Ground Water (GW) 20/05/2021 . 22/05/2021 210526-32 24342037 EW05	2.00 Ground Water (GW) 20/05/2021 . 22/05/2021 210526-32 24342073 EW07		
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	90	92	100	94	88		
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #		
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #		
Benzene	<7 µg/l	TM245	<7 #	<7 #	<7 #	<7 #	<7 #		
Toluene	<4 µg/l	TM245	<4 #	<4 #	<4 #	<4 #	<4 #		
Ethylbenzene	<5 µg/l	TM245	<5 #	<5 #	<5 #	<5 #	<5 #		
m,p-Xylene	<8 µg/l	TM245	<8 #	<8 #	<8 #	<8 #	<8 #		
o-Xylene	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #		
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11		
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28		
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10		
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	25	<10	<10		
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	95	95	<10		
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	120	95	<10		
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10		
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10		
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10		
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10		
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	11	<10	122	95	<10		
Aliphatics >C16-C35 Aqueous	<10 µg/l	TM174	<10	<10	120	95	<10		



CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-PTR-18	BH-PTR-19	BH-PTR-21	BH-PTR-27	BH-PTR-30	BH-PTR-31
# M aq diss.filt tot.unfilt *	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		4.40	3.25	3.00	4.50	18.50	8.00
	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
	Aqueous / settled sample.			20/05/2021	20/05/2021	20/05/2021	20/05/2021	21/05/2021	21/05/2021
	Dissolved / filtered sample.								
	Total / unfiltered sample.								
	Subcontracted - refer to subcontractor report for accreditation status.								
	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
	Trigger breach confirmed								
	Sample deviation (see appendix)								
Component		LOD/Units	Method						
Dibromofluoromethane**		%	TM208	116	117	114	115	118	118
Toluene-d8**		%	TM208	100	99.9	99.8	100	101	100
4-Bromofluorobenzene**		%	TM208	102	102	100	100	100	101
Dichlorodifluoromethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloromethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vinyl chloride		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromomethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Trichlorofluoromethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbon disulphide		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dichloromethane		<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Methyl tertiary butyl ether (MTBE)		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,2-Dichloroethene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloroethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,2-Dichloroethene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,2-Dichloropropane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromochloromethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Chloroform		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,1-Trichloroethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1-Dichloropropene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Carbontetrachloride		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloroethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Benzene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Trichloroethene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichloropropane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Dibromomethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Bromodichloromethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
cis-1,3-Dichloropropene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Toluene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
trans-1,3-Dichloropropene		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,1,2-Trichloroethane		<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-PTR-18	BH-PTR-19	BH-PTR-21	BH-PTR-27	BH-PTR-30	BH-PTR-31
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		4.40	3.25	3.00	4.50	18.50	8.00
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			20/05/2021	20/05/2021	20/05/2021	20/05/2021	21/05/2021	21/05/2021
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021
+	Subcontracted - refer to subcontractor report for accreditation status.	210526-32	210526-32	210526-32	210526-32	210526-32	210526-32		
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	24341999	24341981	24341799	24342110	24341879	24341818		
(F)	Trigger breach confirmed	EW03	EW02	EW10	EW09				
1-4+5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
1,3-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	



CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 210526-32

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600828

Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.		BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-45	BH-PTR-33D	BH-PTR-41D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.00 Ground Water (GW) 21/05/2021	2.75 Ground Water (GW) 21/05/2021	13.00 Ground Water (GW) 21/05/2021	7.50 Ground Water (GW) 20/05/2021	25.00 Ground Water (GW) 21/05/2021	7.50 Ground Water (GW) 20/05/2021
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
dis.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.				22/05/2021 210526-32 24341962 EW18	22/05/2021 210526-32 24341921 EW16	22/05/2021 210526-32 24341943 EW17	22/05/2021 210526-32 24341780 EW01	22/05/2021 210526-32 24341858 EW13	22/05/2021 210526-32 24342018 EW04
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-44@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208			113	114	111	112	115	114
Toluene-d8**	%	TM208			99.6	99.9	99.3	99.6	100	99
4-Bromofluorobenzene**	%	TM208			98	96.6	96.9	96.7	102	98.3
Dichlorodifluoromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Chloromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Vinyl chloride	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Bromomethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Chloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Carbon disulphide	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Dichloromethane	<3 µg/l	TM208			<3	<3	<3	<3	<3	<3
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Bromochloromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Chloroform	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Carbontetrachloride	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Benzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Trichloroethene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Dibromomethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Toluene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1



CERTIFICATE OF ANALYSIS

SDG: 210526-32

Location: Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 600828

Superseded Report:

VOC MS (W)

Results Legend			Customer Sample Ref.		BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-45	BH-PTR-33D	BH-PTR-41D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.00 Ground Water (GW) 21/05/2021	2.75 Ground Water (GW) 21/05/2021	13.00 Ground Water (GW) 21/05/2021	7.50 Ground Water (GW) 20/05/2021	25.00 Ground Water (GW) 21/05/2021	7.50 Ground Water (GW) 20/05/2021
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
dis.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.				22/05/2021 210526-32 24341962 EW18	22/05/2021 210526-32 24341921 EW16	22/05/2021 210526-32 24341943 EW17	22/05/2021 210526-32 24341780 EW01	22/05/2021 210526-32 24341858 EW13	22/05/2021 210526-32 24342018 EW04
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-44@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
1,3-Dichloropropane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2-Dibromoethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Chlorobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Ethylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
m,p-Xylene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
o-Xylene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Styrene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Bromoform	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Isopropylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Bromobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Propylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
2-Chlorotoluene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
4-Chlorotoluene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
tert-Butylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
sec-Butylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
4-iso-Propyltoluene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
n-Butylbenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Naphthalene	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210526-32	Client Reference:	B025563	Report Number:	600828
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-PTR-42D	BH-PTR-43D	BH-PTR-33S	BH-PTR-41S	BH-PTR-43S	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		6.50	7.00	3.00	1.70	2.00	
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	
aq	Aqueous / settled sample.			20/05/2021	20/05/2021	21/05/2021	20/05/2021	20/05/2021	
dis.filt	Dissolved / filtered sample.			-	-	-	-	-	
tot.unfilt	Total / unfiltered sample.			-	-	-	-	-	
*	Subcontracted - refer to subcontractor report for accreditation status.			22/05/2021	22/05/2021	22/05/2021	22/05/2021	22/05/2021	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			210526-32	210526-32	210526-32	210526-32	210526-32	
(F)	Trigger breach confirmed			24342055	24342092	24341838	24342037	24342073	
1-4	Sample deviation (see appendix)	EW06	EW08	EW12	EW05	EW07			
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	116	115	112	114	112		
Toluene-d8**	%	TM208	99.7	101	100	99.2	100		
4-Bromofluorobenzene**	%	TM208	97.3	96.6	102	96	96.8		
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Benzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Toluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	

ALS

Table of Results - Appendix

Method No		Reference	Description
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984		Determination of alkalinity in aqueous samples
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060		Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984		Determination of Ammonium in Water Samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999		Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981		The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999		Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM178	Modified: US EPA Method 8100		Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3		Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,		The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Modified: US EPA Method 8260b & 624		Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM228	US EPA Method 6010B		Determination of Major Cations in Water by iCap 6500 Duo ICP-OES
TM245	By GC-FID		Determination of GRO by Headspace in waters
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.		Determination of pH in Water and Leachate using the GLpH pH Meter
TM259	by HPLC		Determination of Phenols in Waters and Leachates by HPLC
TM279			Determination of Low Level Easily Liberatable (Free) Cyanides and Total Cyanides in Waters using the Skalar SANS+ System Segmented Flow Analyser
TM331			Low Level Hexavalent Chromium

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	24341999	24341981	24341799	24342110	24341879	24341818	24341962	24341921	24341943	24341780
	BH-PTR-18	BH-PTR-19	BH-PTR-21	BH-PTR-27	BH-PTR-30	BH-PTR-31	BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-45
	EW03	EW02	EW10	EW09	EW14	EW11	EW18	EW16	EW17	EW01
AGS Ref. Depth Type	4.40	3.25	3.00	4.50	18.50	8.00	2.00	2.75	13.00	7.50
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	27-May-2021	28-May-2021	28-May-2021	28-May-2021	27-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
Ammonium Low	02-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	01-Jun-2021	02-Jun-2021	02-Jun-2021
Anions by Kone (w)	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021
Chromium III	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Dissolved Metals by ICP-MS	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Dissolved Organic/Inorganic Carbon	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	06-Jun-2021	05-Jun-2021
EPH CWG (Aliphatic) Aqueous GC (W)	02-Jun-2021	03-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	03-Jun-2021	03-Jun-2021	03-Jun-2021	02-Jun-2021
EPH CWG (Aromatic) Aqueous GC (W)	01-Jun-2021	03-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	03-Jun-2021	03-Jun-2021	03-Jun-2021	01-Jun-2021
Fluoride	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
GRO by GC-FID (W)	27-May-2021	27-May-2021	01-Jun-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Low Level Cyanide (W)	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
Low Level Hexavalent Chromium (w)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Mercury Dissolved	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	28-May-2021	27-May-2021
Nitrite by Kone (w)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
PAH Spec MS - Aqueous (W)	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
pH Value	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	01-Jun-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
Phenols by HPLC (W)	28-May-2021	27-May-2021	27-May-2021	27-May-2021	28-May-2021	28-May-2021	28-May-2021	01-Jun-2021	28-May-2021	01-Jun-2021
Sulphur Dissolved by ICP-OES	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021
Total Dissolved Solids	01-Jun-2021	01-Jun-2021	26-May-2021	01-Jun-2021	26-May-2021	01-Jun-2021	26-May-2021	26-May-2021	26-May-2021	01-Jun-2021
Total Metals by ICP-MS	28-May-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	28-May-2021	01-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	01-Jun-2021
TPH CWG (W)	02-Jun-2021	03-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	03-Jun-2021	03-Jun-2021	03-Jun-2021	02-Jun-2021
VOC MS (W)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021

Lab Sample No(s) Customer Sample Ref.	24341858	24342018	24342055	24342092	24341838	24342037	24342073
	BH-PTR-33D	BH-PTR-41D	BH-PTR-42D	BH-PTR-43D	BH-PTR-33S	BH-PTR-41S	BH-PTR-43S
	EW13	EW04	EW06	EW08	EW12	EW05	EW07
AGS Ref. Depth Type	25.00	7.50	6.50	7.00	3.00	1.70	2.00
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	27-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
Ammonium Low	02-Jun-2021	01-Jun-2021	01-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021
Anions by Kone (w)	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021
Chromium III	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Dissolved Metals by ICP-MS	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Dissolved Organic/Inorganic Carbon	06-Jun-2021	06-Jun-2021	06-Jun-2021	07-Jun-2021	06-Jun-2021	06-Jun-2021	05-Jun-2021
EPH CWG (Aliphatic) Aqueous GC (W)	02-Jun-2021	03-Jun-2021	02-Jun-2021	03-Jun-2021	03-Jun-2021	02-Jun-2021	02-Jun-2021
EPH CWG (Aromatic) Aqueous GC (W)	02-Jun-2021	03-Jun-2021	01-Jun-2021	03-Jun-2021	03-Jun-2021	01-Jun-2021	01-Jun-2021
Fluoride	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
GRO by GC-FID (W)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Low Level Cyanide (W)	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
Low Level Hexavalent Chromium (w)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Mercury Dissolved	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
Nitrite by Kone (w)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021
PAH Spec MS - Aqueous (W)	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021
pH Value	28-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	27-May-2021	01-Jun-2021
Phenols by HPLC (W)	27-May-2021	28-May-2021	28-May-2021	28-May-2021	28-May-2021	01-Jun-2021	01-Jun-2021
Sulphur Dissolved by ICP-OES	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021	01-Jun-2021
Total Dissolved Solids	01-Jun-2021	26-May-2021	01-Jun-2021	01-Jun-2021	26-May-2021	01-Jun-2021	01-Jun-2021
Total Metals by ICP-MS	28-May-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021	02-Jun-2021
TPH CWG (W)	02-Jun-2021	03-Jun-2021	02-Jun-2021	03-Jun-2021	03-Jun-2021	02-Jun-2021	02-Jun-2021
VOC MS (W)	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021	27-May-2021

ASSOCIATED AQC DATA

Alkalinity as CaCO3

Component	Method Code	QC 2450	QC 2451	QC 2447
Total Alkalinity as CaCO3	TM043	101.01 96.40 : 105.98	98.48 96.40 : 105.98	101.01 96.40 : 105.98

Ammonium Low

Component	Method Code	QC 2462	QC 2465	QC 2423	QC 2460
Ammoniacal Nitrogen as N	TM099	97.2 96.04 : 106.80	97.6 88.02 : 104.70	98.2 94.00 : 106.00	97.6 94.00 : 106.00

Anions by Kone (w)

Component	Method Code	QC 2496
Chloride	TM184	107.0 92.93 : 115.43
Sulphate (soluble)	TM184	104.4 90.53 : 113.03
TON as NO3	TM184	107.0 99.60 : 111.90

Dissolved Metals by ICP-MS

Component	Method Code	QC 2415	QC 2436	QC 2406
Aluminium	TM152	103.33 94.21 : 111.52	103.0 94.21 : 111.52	104.67 94.21 : 111.52
Antimony	TM152	108.67 88.37 : 130.57	107.0 88.37 : 130.57	110.0 88.37 : 130.57
Arsenic	TM152	102.83 92.62 : 113.52	102.5 92.62 : 113.52	103.33 92.62 : 113.52
Barium	TM152	101.5 88.62 : 113.14	100.17 88.62 : 113.14	102.33 88.62 : 113.14
Beryllium	TM152	105.17 87.08 : 111.38	105.0 87.08 : 111.38	108.5 87.08 : 111.38
Bismuth	TM152	103.83 92.62 : 115.02	104.5 92.62 : 115.02	108.17 92.62 : 115.02
Boron	TM152	107.33 86.31 : 120.88	109.0 86.31 : 120.88	108.67 86.31 : 120.88
Cadmium	TM152	98.17 93.85 : 111.65	97.83 93.85 : 111.65	100.17 93.85 : 111.65
Calcium	TM152	100.67 89.20 : 126.91	100.0 89.20 : 126.91	104.0 89.20 : 126.91
Chromium	TM152	100.33 92.50 : 113.03	99.5 92.50 : 113.03	101.67 92.50 : 113.03
Cobalt	TM152	104.17 85.01 : 114.87	102.5 85.01 : 114.87	105.0 85.01 : 114.87
Copper	TM152	104.17 89.87 : 119.73	102.17 89.87 : 119.73	103.0 89.87 : 119.73

Dissolved Metals by ICP-MS

		QC 2415	QC 2436	QC 2406
Iron	TM152	104.0 93.02 : 113.86	102.0 93.02 : 113.86	104.0 93.02 : 113.86
Lead	TM152	100.0 91.11 : 116.98	98.5 91.11 : 116.98	103.17 91.11 : 116.98
Lithium	TM152	102.17 87.70 : 115.90	101.17 87.70 : 115.90	104.83 87.70 : 115.90
Magnesium	TM152	99.33 89.60 : 116.61	96.67 89.60 : 116.61	100.67 89.60 : 116.61
Manganese	TM152	105.5 93.97 : 112.46	104.0 93.97 : 112.46	106.83 93.97 : 112.46
Molybdenum	TM152	98.0 89.07 : 110.96	97.83 89.07 : 110.96	97.17 89.07 : 110.96
Nickel	TM152	102.33 93.70 : 112.15	101.33 93.70 : 112.15	102.67 93.70 : 112.15
Phosphorus	TM152	97.5 89.24 : 114.18	95.83 89.24 : 114.18	103.83 89.24 : 114.18
Potassium	TM152	102.0 93.20 : 115.55	99.33 93.20 : 115.55	104.67 93.20 : 115.55
Selenium	TM152	99.5 91.69 : 117.12	97.17 91.69 : 117.12	100.5 91.69 : 117.12
Silver	TM152	104.33 90.93 : 121.73	103.33 90.93 : 121.73	102.33 90.93 : 121.73
Sodium	TM152	100.0 92.42 : 113.24	96.67 92.42 : 113.24	103.33 92.42 : 113.24
Strontium	TM152	104.0 92.14 : 116.24	105.0 92.14 : 116.24	105.67 92.14 : 116.24
Tellurium	TM152	100.17 89.88 : 111.78	100.17 89.88 : 111.78	101.17 89.88 : 111.78
Thallium	TM152	90.83 82.43 : 113.83	89.33 82.43 : 113.83	92.0 82.43 : 113.83
Tin	TM152	104.33 94.62 : 107.79	103.0 94.62 : 107.79	106.17 94.62 : 107.79
Titanium	TM152	108.0 90.29 : 115.23	107.17 90.29 : 115.23	108.67 90.29 : 115.23
Tungsten	TM152	101.83 77.61 : 132.31	101.0 77.61 : 132.31	104.33 77.61 : 132.31
Uranium	TM152	100.33 86.97 : 115.76	99.17 86.97 : 115.76	102.67 86.97 : 115.76
Vanadium	TM152	105.83 89.61 : 115.48	101.17 89.61 : 115.48	103.0 89.61 : 115.48
Zinc	TM152	102.0 87.51 : 116.26	100.67 87.51 : 116.26	102.33 87.51 : 116.26

Dissolved Organic/Inorganic Carbon

Component	Method Code	QC 2455	QC 2434	QC 2432
Dissolved Inorganic Carbon	TM090	98.83 93.58 : 112.28	107.83 93.58 : 112.28	102.0 93.58 : 112.28
Dissolved Organic Carbon	TM090	101.83 96.13 : 109.53	102.17 96.13 : 109.53	104.17 96.13 : 109.53

EPH CWG (Aliphatic) Aqueous GC (W)

EPH CWG (Aliphatic) Aqueous GC (W)					
Component	Method Code	QC 2482	QC 2481	QC 2467	
Total Aliphatics >C10-C40	TM174	99.67 68.59 : 134.82	91.75 65.58 : 141.57	106.27 69.79 : 134.39	

EPH CWG (Aromatic) Aqueous GC (W)					
Component	Method Code	QC 2489	QC 2417	QC 2479	
Total Aromatics >EC10-EC40	TM174	89.02 60.75 : 129.09	81.22 60.75 : 129.09	91.46 59.92 : 128.54	

Fluoride					
Component	Method Code	QC 2449	QC 2456		
Fluoride	TM104	102.67 96.67 : 108.67	102.0 96.67 : 108.67		

GRO by GC-FID (W)					
Component	Method Code	QC 2454	QC 2433		
Benzene by GC	TM245	95.5 79.13 : 118.84	106.0 79.13 : 118.84		
Ethylbenzene by GC	TM245	96.0 79.54 : 115.99	107.0 79.54 : 115.99		
m & p Xylene by GC	TM245	96.25 78.44 : 116.32	108.0 78.44 : 116.32		
MTBE GC-FID	TM245	102.0 81.43 : 120.09	101.5 81.43 : 120.09		
o Xylene by GC	TM245	97.5 76.85 : 120.29	107.0 76.85 : 120.29		
QC	TM245	107.46 71.58 : 131.01	102.8 71.58 : 131.01		
Toluene by GC	TM245	97.0 79.00 : 121.96	107.5 79.00 : 121.96		

Low Level Cyanide (W)					
Component	Method Code	QC 2470	QC 2487	QC 2403	
Free Cyanide - Low Level	TM279	78.75 88.27 : 122.21	79.5 88.27 : 122.21	78.75 88.27 : 122.21	
Total Cyanide - Low Level	TM279	98.75 76.58 : 119.24	100.25 76.58 : 119.24	101.5 76.58 : 119.24	

Mercury Dissolved					
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Mercury Dissolved						
Component	Method Code	QC 2447	QC 2487	QC 2494	QC 2497	QC 2400
Mercury Dissolved (CVAF)	TM183	97.2 69.30 : 128.70	95.6 69.30 : 128.70	87.2 69.30 : 128.70	96.6 69.30 : 128.70	92.8 69.30 : 128.70

PAH Spec MS - Aqueous (W)					
Component	Method Code	QC 2494	QC 2451	QC 2487	
Acenaphthene by GCMS	TM178	107.2 90.45 : 118.63	106.4 90.45 : 118.63	108.0 90.45 : 118.63	
Acenaphthylene by GCMS	TM178	110.4 90.13 : 116.27	107.2 90.13 : 116.27	111.2 90.13 : 116.27	
Anthracene by GCMS	TM178	104.8 92.40 : 114.00	106.8 92.40 : 114.00	104.0 92.40 : 114.00	
Benz(a)anthracene by GCMS	TM178	108.0 89.51 : 117.69	108.4 89.51 : 117.69	107.6 89.51 : 117.69	
Benzo(a)pyrene by GCMS	TM178	103.6 89.43 : 118.57	105.6 89.43 : 118.57	104.4 89.43 : 118.57	
Benzo(b)fluoranthene by GCMS	TM178	106.0 87.80 : 121.80	104.4 87.80 : 121.80	106.4 87.80 : 121.80	
Benzo(ghi)perylene by GCMS	TM178	103.6 87.10 : 119.30	98.8 87.10 : 119.30	98.0 87.10 : 119.30	
Benzo(k)fluoranthene by GCMS	TM178	102.0 93.23 : 123.57	105.2 93.23 : 123.57	104.8 93.23 : 123.57	
Chrysene by GCMS	TM178	109.6 88.68 : 116.92	107.6 88.68 : 116.92	109.2 88.68 : 116.92	
Dibenzo(ah)anthracene by GCMS	TM178	100.8 86.24 : 118.56	97.2 86.24 : 118.56	103.6 86.24 : 118.56	
Fluoranthene by GCMS	TM178	109.6 86.04 : 121.96	102.4 86.04 : 121.96	101.6 86.04 : 121.96	
Fluorene by GCMS	TM178	107.6 90.76 : 121.24	107.2 90.76 : 121.24	107.6 90.76 : 121.24	
Indeno(123cd)pyrene by GCMS	TM178	99.6 88.39 : 119.61	104.0 88.39 : 119.61	98.0 88.39 : 119.61	
Naphthalene by GCMS	TM178	110.8 89.40 : 121.80	107.2 89.40 : 121.80	112.4 89.40 : 121.80	
Phenanthrene by GCMS	TM178	108.8 90.41 : 119.19	108.0 90.41 : 119.19	106.4 90.41 : 119.19	
Pyrene by GCMS	TM178	108.8 91.00 : 120.20	100.0 91.00 : 120.20	99.6 91.00 : 120.20	

pH Value						
Component	Method Code	QC 2446	QC 2407	QC 2410	QC 2412	QC 2439
pH	TM256	100.67 99.33 : 102.54	100.4 99.33 : 102.54	100.53 99.33 : 102.54	100.67 99.33 : 102.54	100.8 99.33 : 102.54

Phenols by HPLC (W)						
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Phenols by HPLC (W)

Component	Method Code	QC 2472	QC 2436	QC 2402
2,3,5 Trimethyl-Phenol by HPLC (W)	TM259	103.52 77.41 : 127.55	99.61 77.41 : 127.55	101.56 77.41 : 127.55
2-Isopropyl Phenol by HPLC (W)	TM259	99.43 82.77 : 126.51	91.78 82.77 : 126.51	93.69 82.77 : 126.51
Cresols by HPLC (W)	TM259	103.29 76.60 : 126.28	100.0 76.60 : 126.28	103.95 76.60 : 126.28
Napthol by HPLC (W)	TM259	103.52 75.40 : 129.40	95.7 75.40 : 129.40	101.56 75.40 : 129.40
Phenol by HPLC (W)	TM259	98.3 85.77 : 125.91	96.41 85.77 : 125.91	98.3 85.77 : 125.91
Xylenols by HPLC (W)	TM259	101.9 79.09 : 131.82	98.1 79.09 : 131.82	99.68 79.09 : 131.82

Sulphur Dissolved by ICP-OES

Component	Method Code	QC 2431
Sulphur Dissolved	TM228	89.8 83.39 : 110.45

Total Dissolved Solids

Component	Method Code	QC 2448	QC 2404	QC 2472
Total Dissolved Solids	TM123	98.3 97.30 : 100.92	98.7 97.30 : 100.92	99.5 97.30 : 100.92

Total Metals by ICP-MS

Component	Method Code	QC 2434	QC 2455
Aluminium	TM152	106.33 88.99 : 114.16	107.33 88.99 : 114.16
Antimony	TM152	107.67 80.45 : 122.65	106.5 80.45 : 122.65
Arsenic	TM152	106.67 85.20 : 116.13	102.17 85.20 : 116.13
Barium	TM152	108.33 88.50 : 113.15	106.17 88.50 : 113.15
Beryllium	TM152	108.83 83.77 : 113.97	112.83 83.77 : 113.97
Bismuth	TM152	105.0 91.18 : 107.28	103.33 91.18 : 107.28
Boron	TM152	112.0 86.68 : 117.67	114.33 86.68 : 117.67
Cadmium	TM152	100.67 87.95 : 113.45	102.33 87.95 : 113.45
Calcium	TM152	104.0 81.38 : 119.09	104.67 81.38 : 119.09
Chromium	TM152	102.83 90.87 : 108.50	103.67 90.87 : 108.50

Total Metals by ICP-MS

		QC 2434	QC 2455
Cobalt	TM152	107.83 84.39 : 114.26	105.83 84.39 : 114.26
Copper	TM152	106.17 84.61 : 114.08	105.5 84.61 : 114.08
Iron	TM152	104.67 90.00 : 111.84	104.0 90.00 : 111.84
Lead	TM152	103.33 85.65 : 113.58	103.17 85.65 : 113.58
Lithium	TM152	106.0 87.07 : 115.37	108.67 87.07 : 115.37
Magnesium	TM152	102.0 86.65 : 109.61	101.33 86.65 : 109.61
Manganese	TM152	105.5 91.67 : 111.62	106.83 91.67 : 111.62
Molybdenum	TM152	99.33 87.00 : 108.89	98.33 87.00 : 108.89
Nickel	TM152	106.5 88.26 : 111.14	105.17 88.26 : 111.14
Phosphorus	TM152	102.67 84.56 : 112.20	100.83 84.56 : 112.20
Potassium	TM152	104.0 86.97 : 112.46	102.67 86.97 : 112.46
Selenium	TM152	101.17 88.44 : 113.86	99.33 88.44 : 113.86
Silver	TM152	110.67 82.13 : 120.33	108.67 82.13 : 120.33
Sodium	TM152	104.0 84.47 : 113.44	102.0 84.47 : 113.44
Strontium	TM152	103.33 90.72 : 114.82	103.0 90.72 : 114.82
Tellurium	TM152	104.67 86.97 : 108.87	102.83 86.97 : 108.87
Thallium	TM152	99.67 80.92 : 114.72	97.17 80.92 : 114.72
Tin	TM152	106.33 88.91 : 108.41	104.83 88.91 : 108.41
Titanium	TM152	113.5 90.30 : 110.00	109.0 90.30 : 110.00
Uranium	TM152	101.67 84.78 : 111.18	101.67 84.78 : 111.18
Vanadium	TM152	99.17 88.43 : 114.30	107.67 88.43 : 114.30
Zinc	TM152	104.67 86.52 : 115.27	103.0 86.52 : 115.27

VOC MS (W)

Component	Method Code	QC 2439	QC 2457
1,1,1,2-Tetrachloroethane	TM208	97.0 79.47 : 113.27	96.5 81.85 : 113.65
1,1,1-Trichloroethane	TM208	100.0 81.01 : 112.00	106.0 84.51 : 110.07
1,1-Dichloroethane	TM208	100.5 82.09 : 116.41	105.5 79.60 : 118.57



CERTIFICATE OF ANALYSIS

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SDG:210526-32

Location:Cambridge South East Tra

Client Reference:

Order Number:

B025563

7000964

Report Number:

Superseded Report:

600828

VOC MS (W)

		QC 2439	QC 2457
1,2-Dichloroethane	TM208	104.0 80.28 : 123.63	110.5 77.72 : 133.33
2-Chlorotoluene	TM208	93.0 83.31 : 110.91	92.5 82.89 : 116.61
4-Chlorotoluene	TM208	92.0 84.01 : 111.46	92.5 79.46 : 115.88
Benzene	TM208	102.0 87.46 : 118.30	106.5 81.22 : 118.60
Bromomethane	TM208	97.5 76.99 : 118.39	104.0 79.31 : 116.90
Carbontetrachloride	TM208	102.0 81.73 : 114.22	109.0 86.16 : 119.10
Chlorobenzene	TM208	96.5 90.24 : 109.71	96.5 87.25 : 116.65
Chloroform	TM208	104.0 83.67 : 118.08	110.5 83.01 : 121.64
Chloromethane	TM208	95.5 70.42 : 127.06	100.0 77.95 : 136.54
Cis-1,2-Dichloroethene	TM208	101.5 83.95 : 112.60	106.0 85.03 : 112.75
Dichloromethane	TM208	101.0 81.65 : 120.83	107.0 78.23 : 120.65
Ethylbenzene	TM208	94.0 85.59 : 106.44	95.0 79.55 : 110.51
Hexachlorobutadiene	TM208	82.0 66.83 : 108.27	81.0 68.58 : 117.78
o-Xylene	TM208	93.5 78.40 : 110.68	95.5 85.06 : 114.91
p/m-Xylene	TM208	93.25 82.64 : 112.12	95.0 82.09 : 109.18
Tert-butyl methyl ether	TM208	97.0 68.23 : 127.69	98.5 68.39 : 125.81
Tetrachloroethene	TM208	97.0 81.10 : 112.63	94.0 82.09 : 113.14
Toluene	TM208	98.0 87.40 : 109.78	98.0 79.88 : 116.83
Trichloroethene	TM208	99.0 81.17 : 111.80	101.5 82.30 : 112.45
Vinyl Chloride	TM208	98.5 72.73 : 123.40	99.5 71.34 : 122.34

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis .

The figure detailed is the percentage recovery result for the AQC .

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control .



CERTIFICATE OF ANALYSIS

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SDG:210526-32

Location:Cambridge South East Tra

Client Reference:

Order Number:

B025563

7000964

Report Number:

Superseded Report:

600828

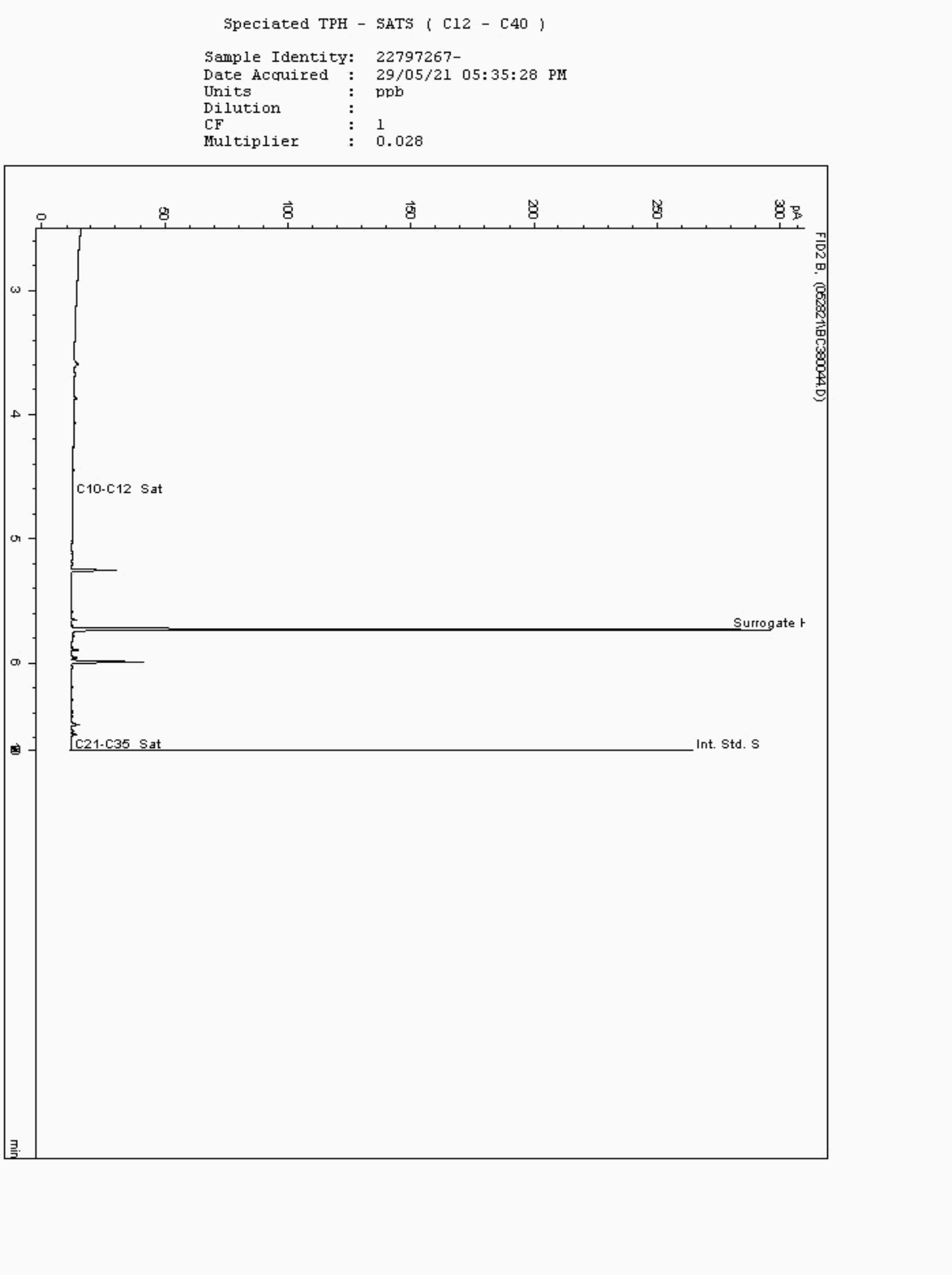
Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 24344088

Sample ID : BH-PTR-43S

Depth : 2.00





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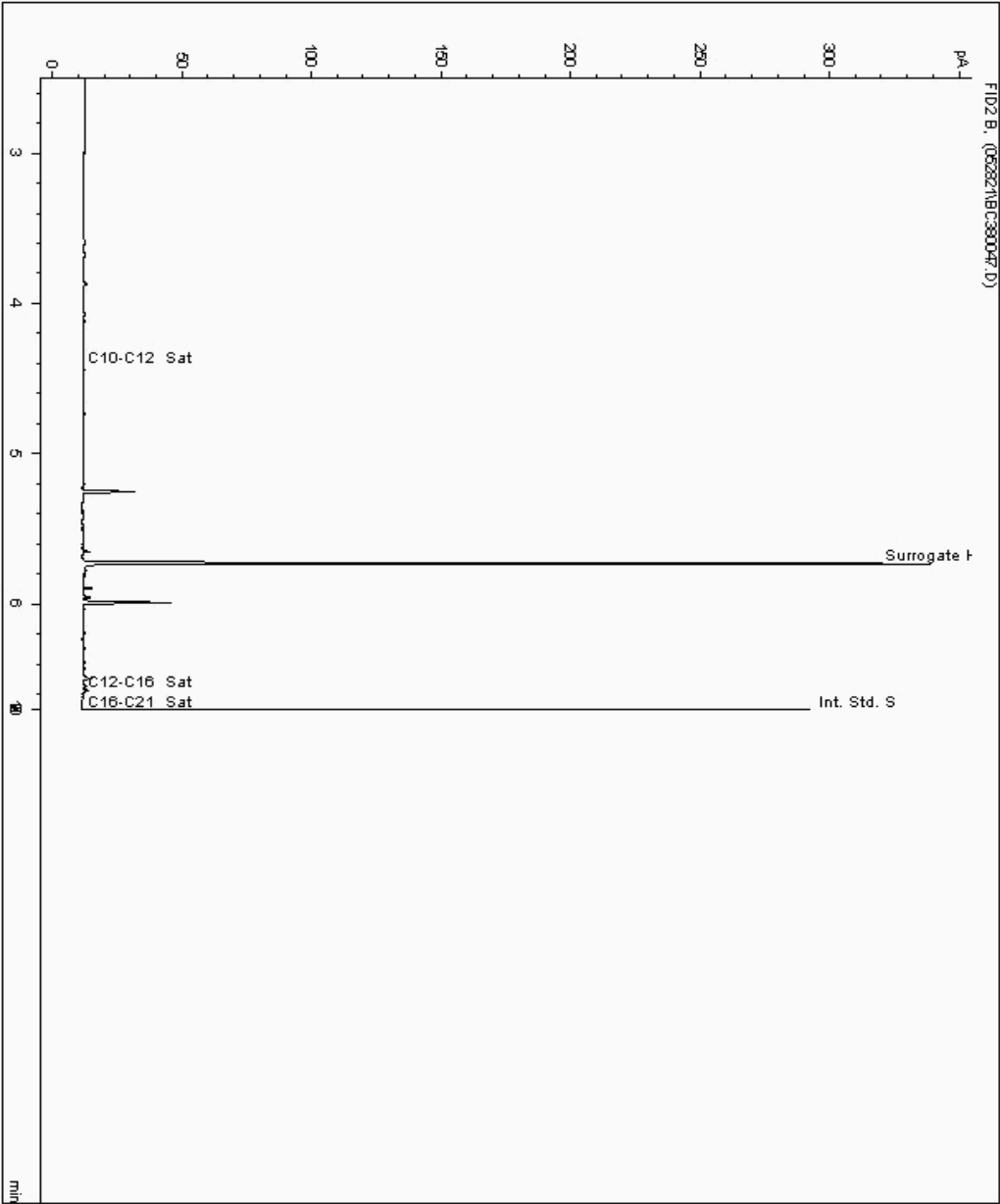
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344109 Depth : 7.50
Sample ID : BH-PTR-45

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796813-
Date Acquired : 29/05/21 06:45:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.027



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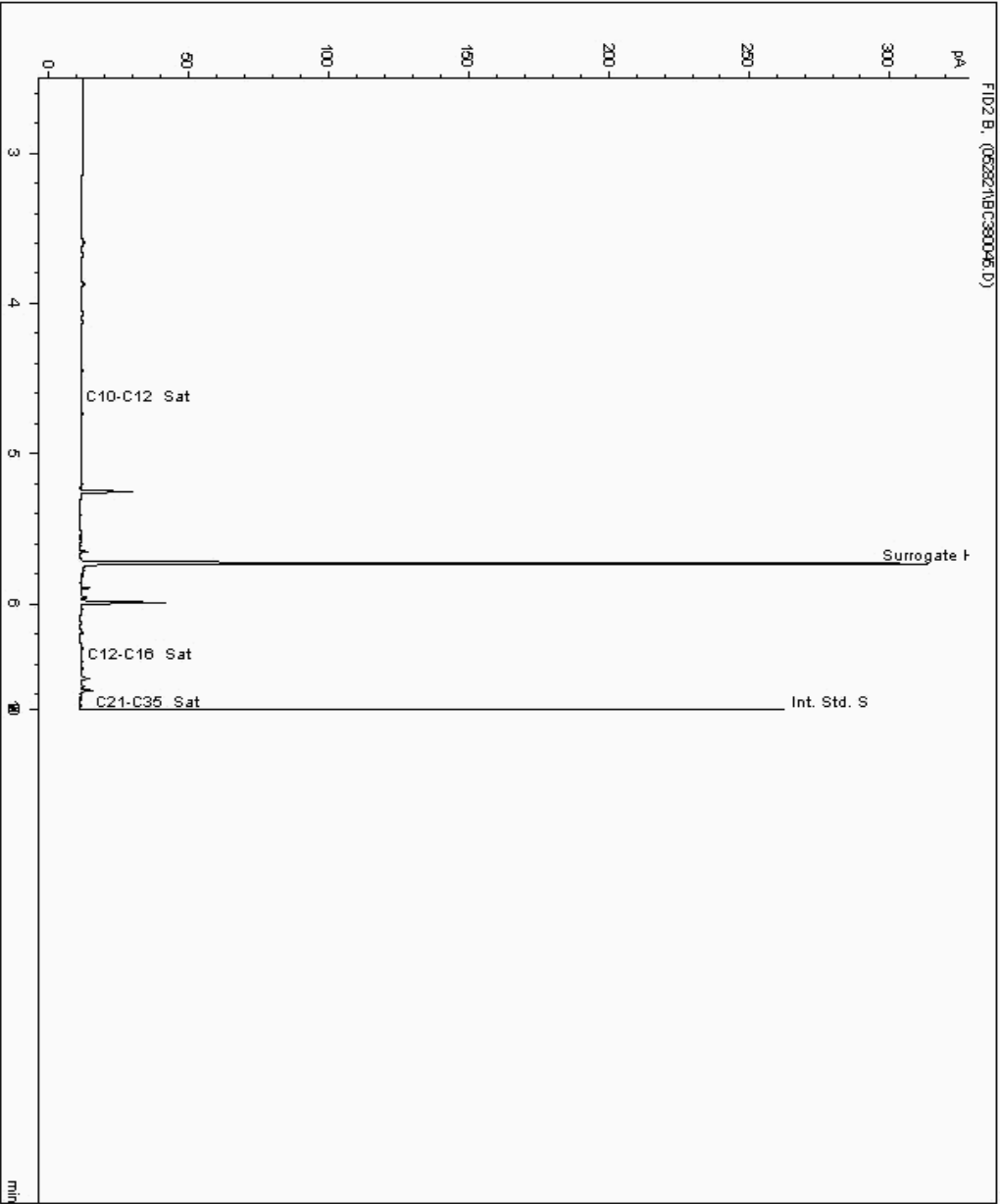
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344600 Depth : 1.70
Sample ID : BH-PTR-41S

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797202-
Date Acquired : 29/05/21 05:58:50 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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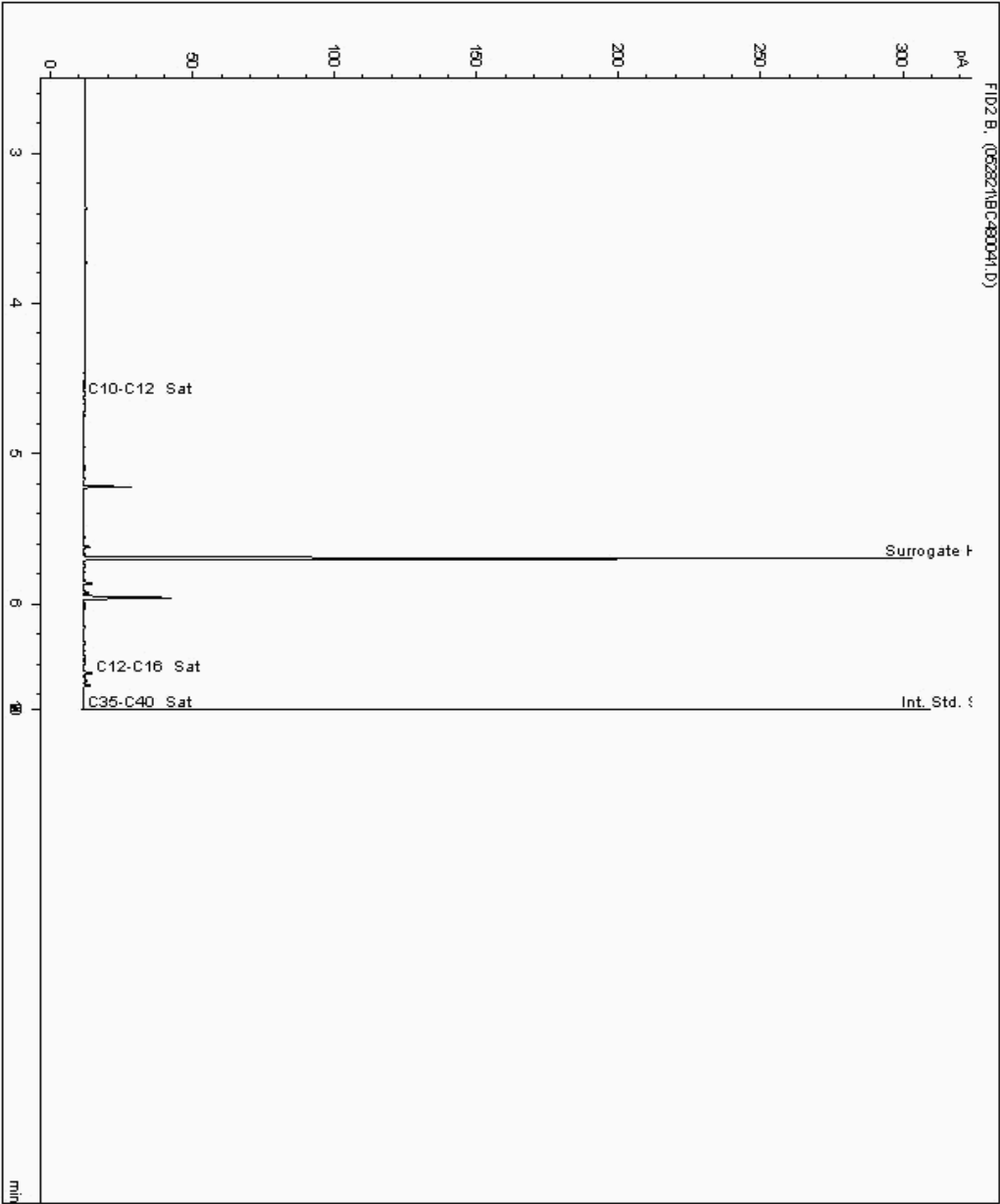
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344689 Depth : 7.00
Sample ID : BH-PTR-43D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797297-
Date Acquired : 29/05/2021 07:30:24 PM
Units : ppb
Dilution : SE BH-PTR-43D[7.00] ->
CF : 1
Multiplier : 0.025



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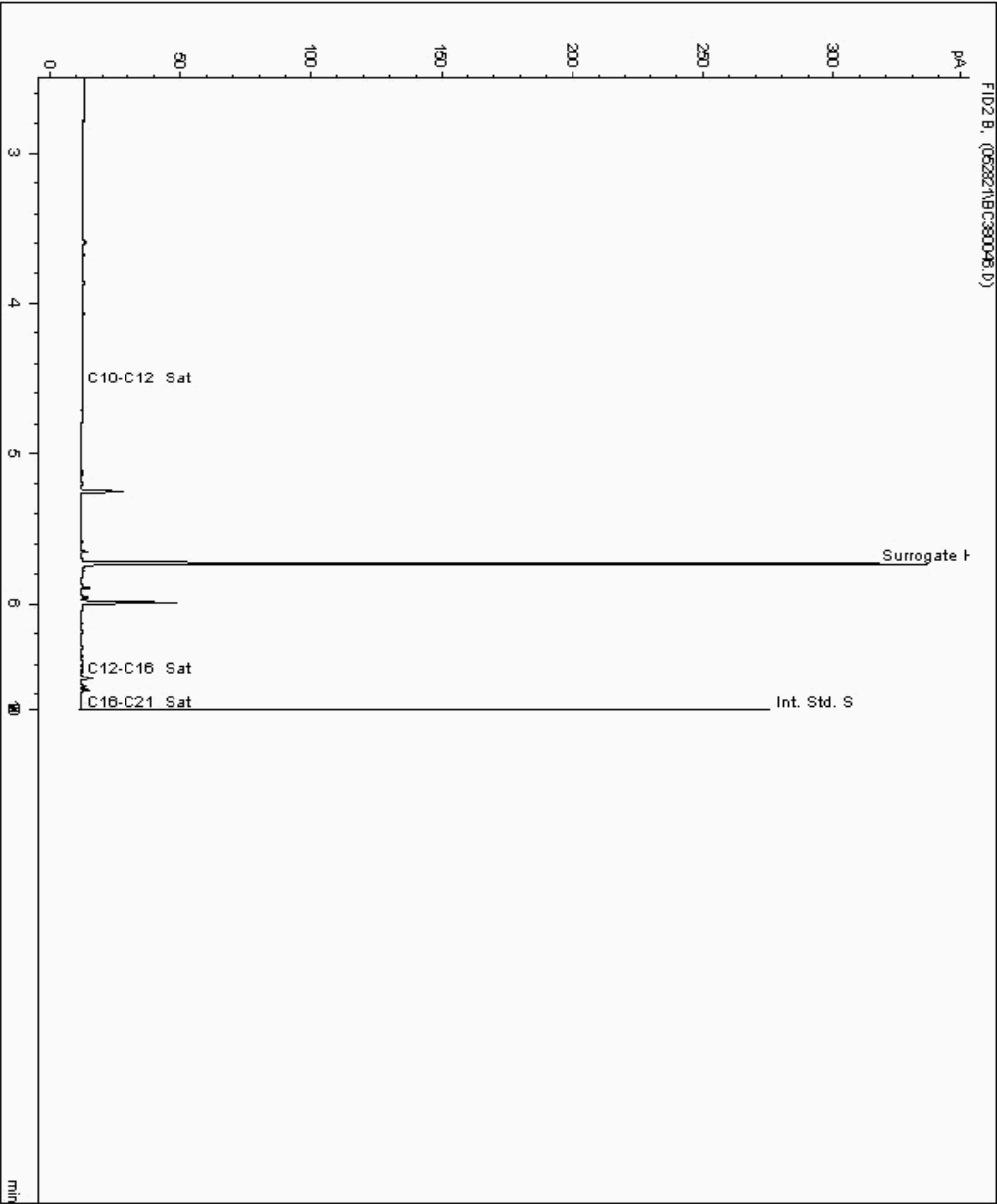
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344710 Depth : 4.40
Sample ID : BH-PTR-18

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797131-
Date Acquired : 29/05/21 06:22:02 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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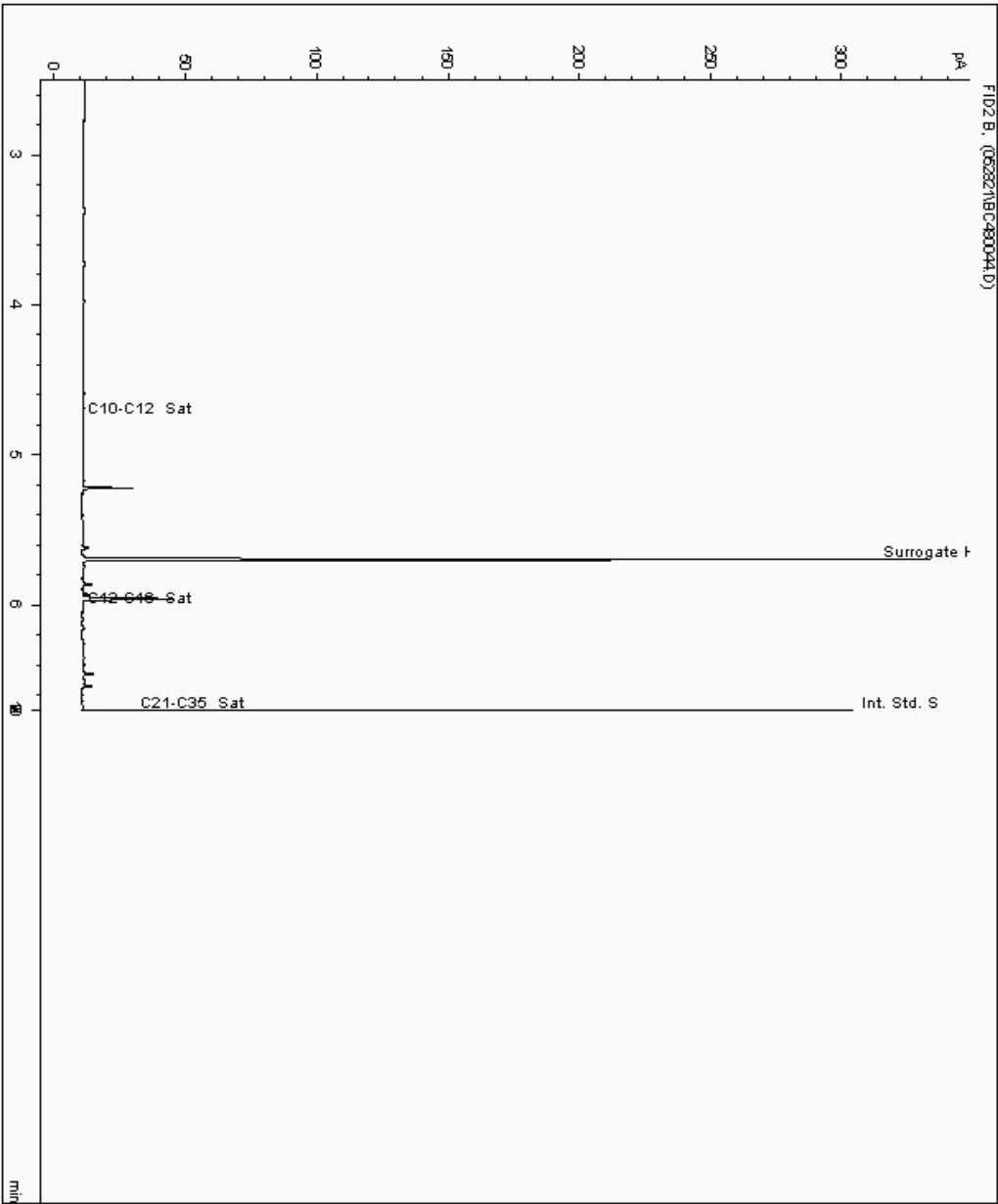
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344734 Depth : 3.25
Sample ID : BH-PTR-19

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797102-
Date Acquired : 29/05/2021 08:39:10 PM
Units : ppb
Dilution : SE BH-PTR-19[3.25] ->
CF : 1
Multiplier : 0.025



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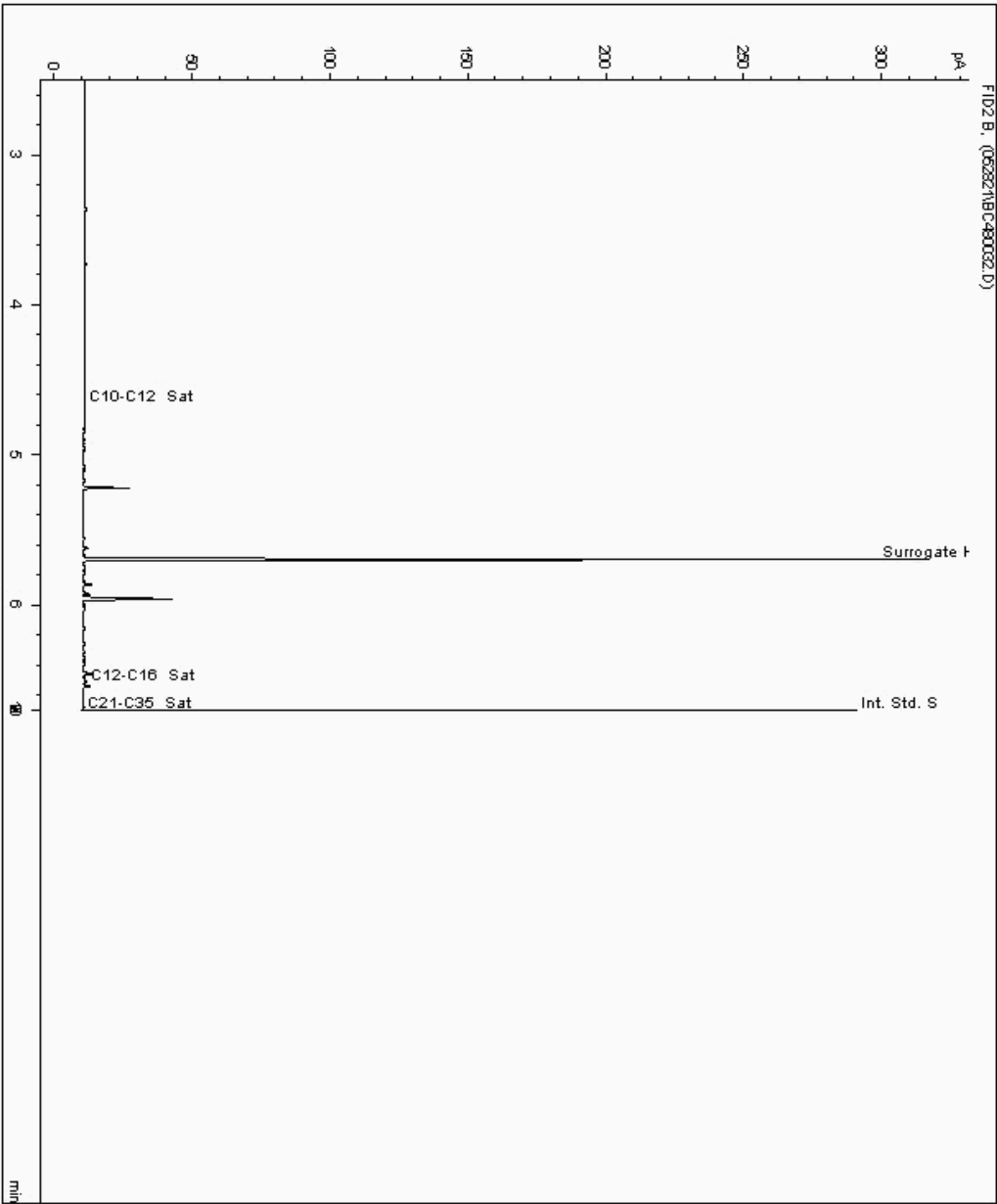
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344988 Depth : 13.00
Sample ID : BH-PTR-39

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797032-
Date Acquired : 29/05/2021 04:02:47 PM
Units : ppb
Dilution : SE BH-PTR-39[13.00] ->
CF : 1
Multiplier : 0.025





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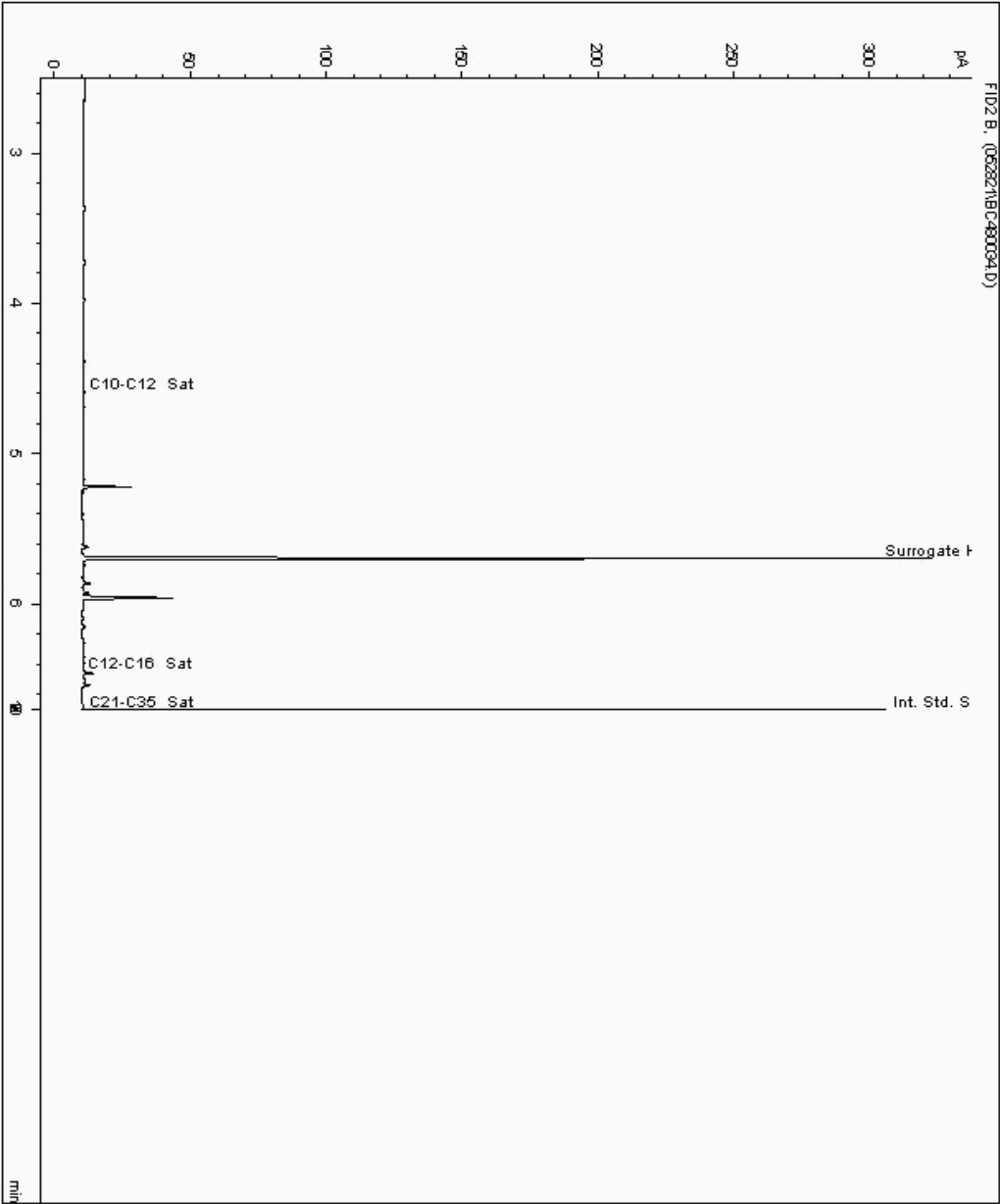
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24344993 Depth : 2.75
Sample ID : BH-PTR-36

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797003-
Date Acquired : 29/05/2021 04:48:49 PM
Units : ppb
Dilution : SE BH-PTR-36[2.75] ->
CF : 1
Multiplier : 0.025



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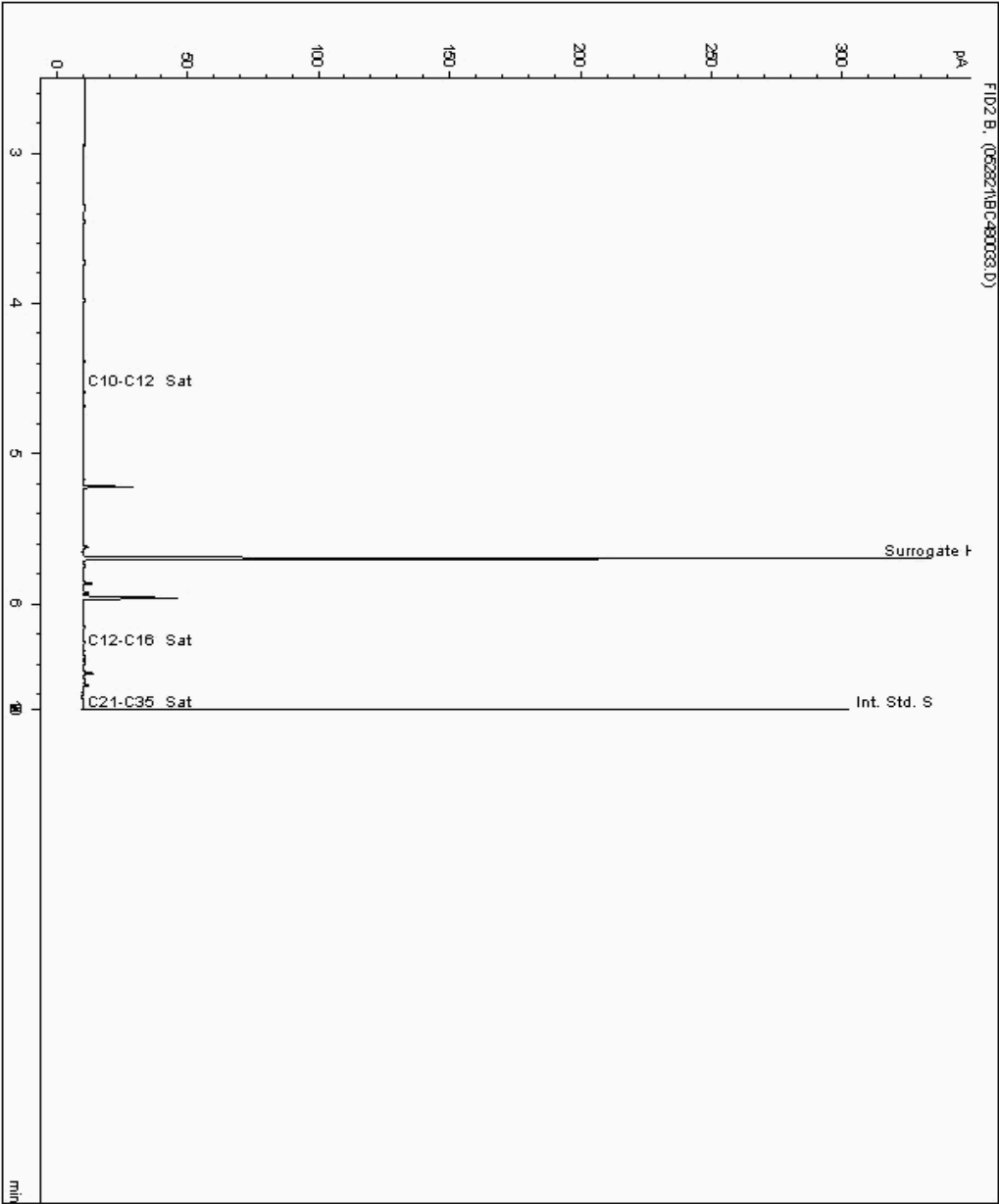
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345001 Depth : 7.50
Sample ID : BH-PTR-41D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797165-
Date Acquired : 29/05/2021 04:25:57 PM
Units : ppb
Dilution : SE BH-PTR-41D[7.50] ->
CF : 1
Multiplier : 0.025





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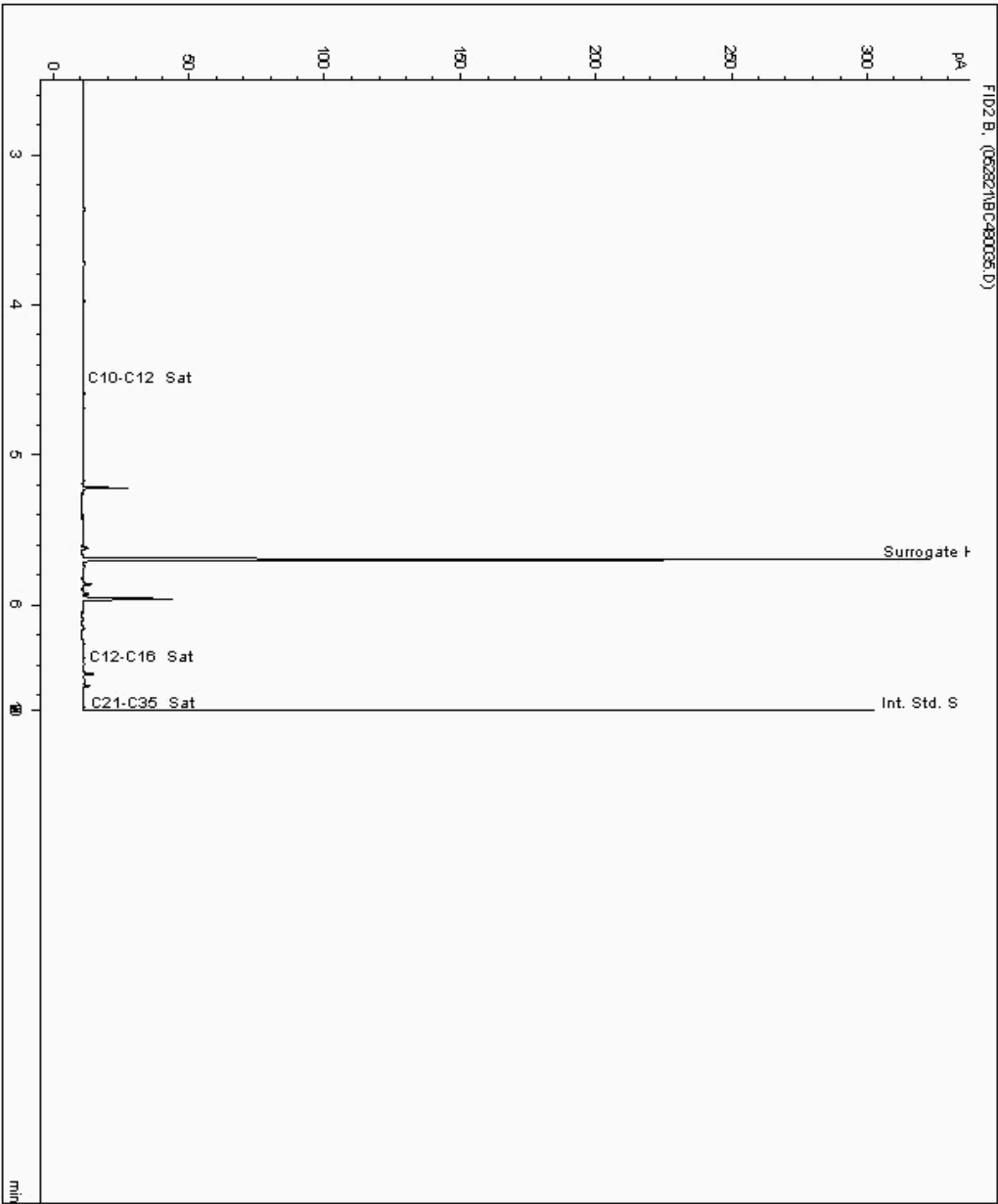
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345008 Depth : 2.00
Sample ID : BH-PTR-35

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797068-
Date Acquired : 29/05/2021 05:12:00 PM
Units : ppb
Dilution : SE BH-PTR-35[2.00] ->
CF : 1
Multiplier : 0.025



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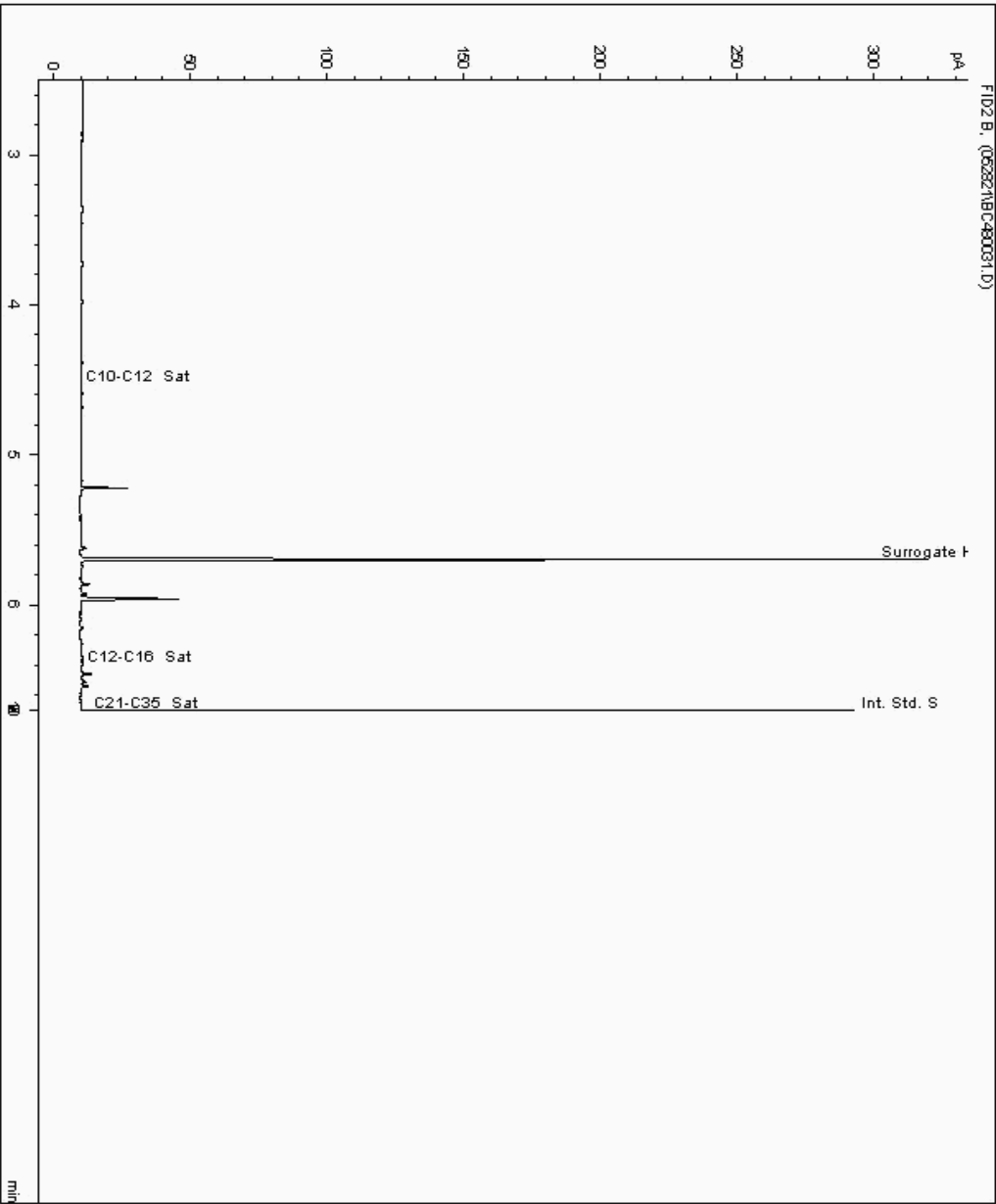
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345018 Depth : 3.00
Sample ID : BH-PTR-33S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796914-
Date Acquired : 29/05/2021 03:39:37 PM
Units : ppb
Dilution : SE BH-PTR-33S[3.00] ->
CF : 1
Multiplier : 0.025





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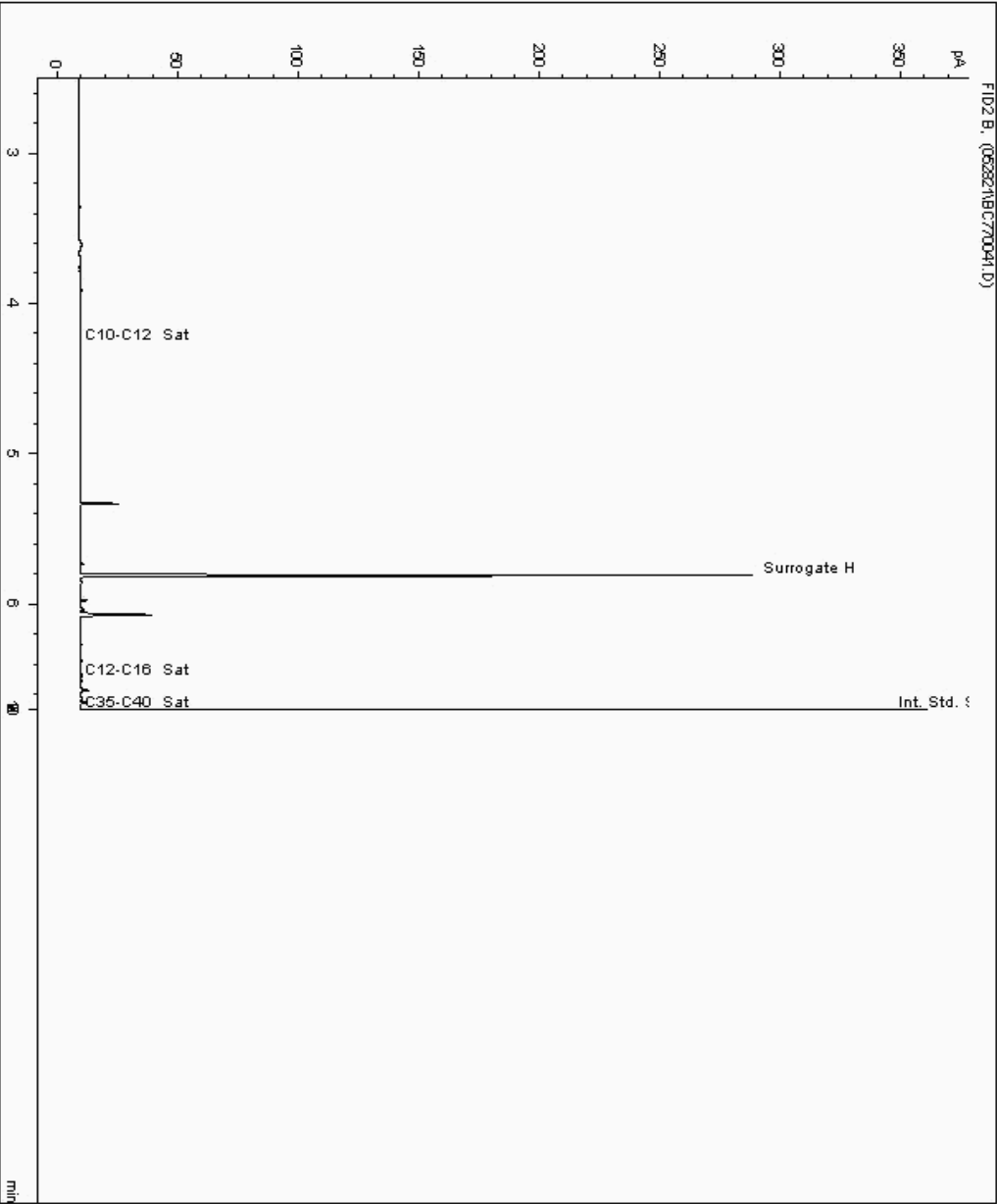
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345721 Depth : 8.00
Sample ID : BH-PTR-31

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796882-
Date Acquired : 5/29/2021 8:21:05 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.027



CERTIFICATE OF ANALYSIS

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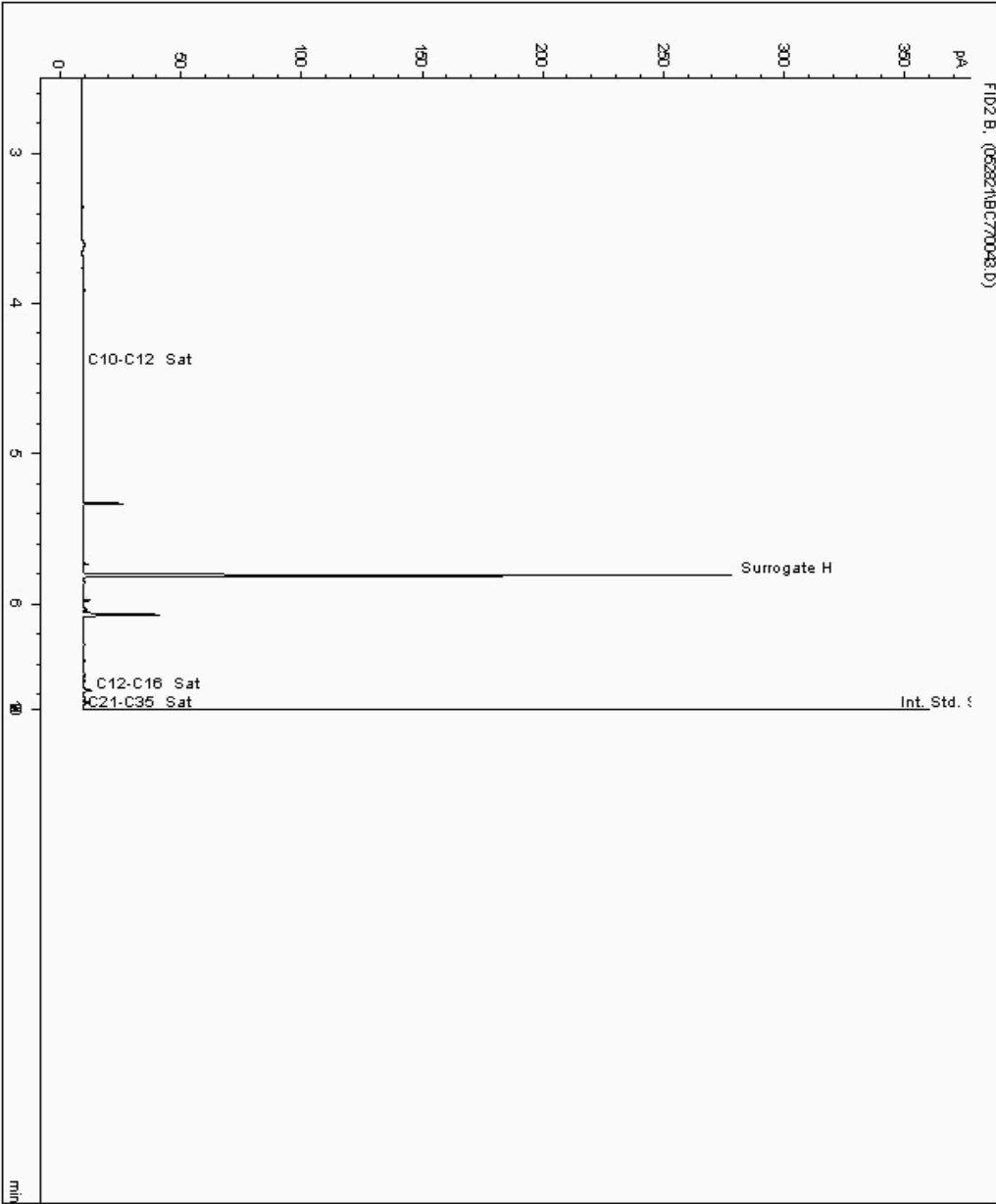
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345731 Depth : 18.50
Sample ID : BH-PTR-30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796974-
Date Acquired : 5/29/2021 9:07:17 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.026





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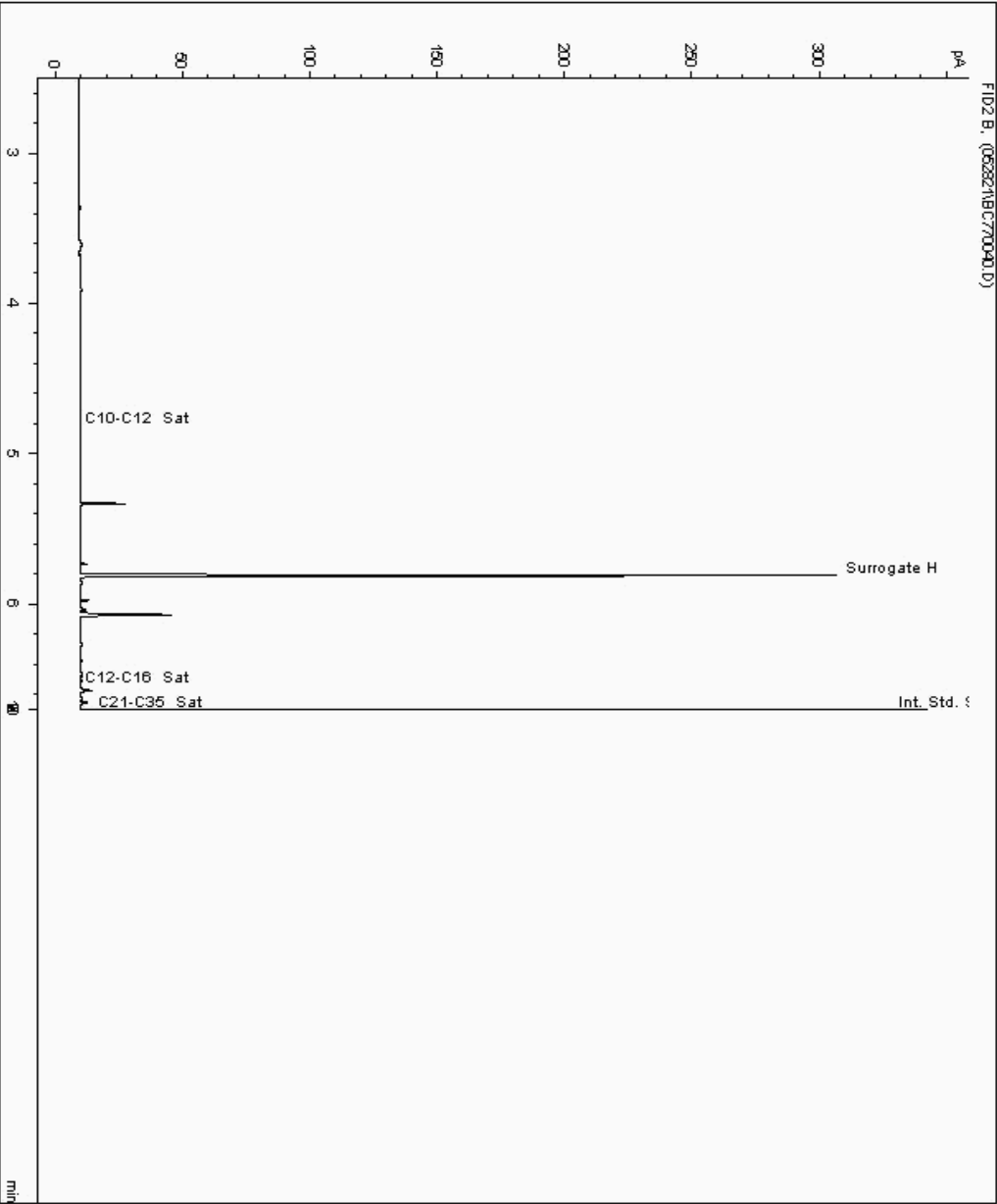
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345764 Depth : 25.00
Sample ID : BH-PTR-33D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796946-
Date Acquired : 5/29/2021 7:57:46 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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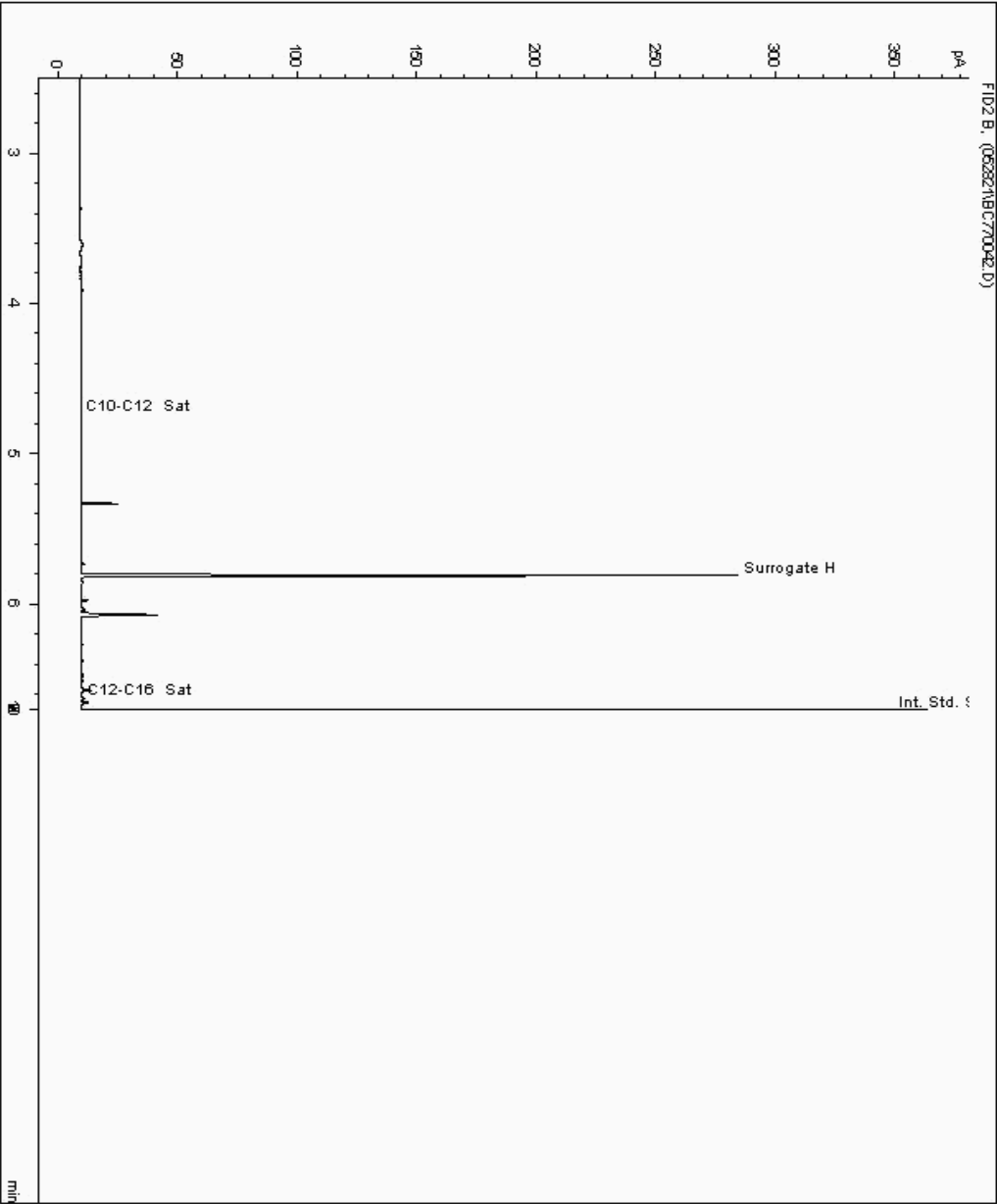
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345770 Depth : 3.00
Sample ID : BH-PTR-21

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796852-
Date Acquired : 5/29/2021 8:44:13 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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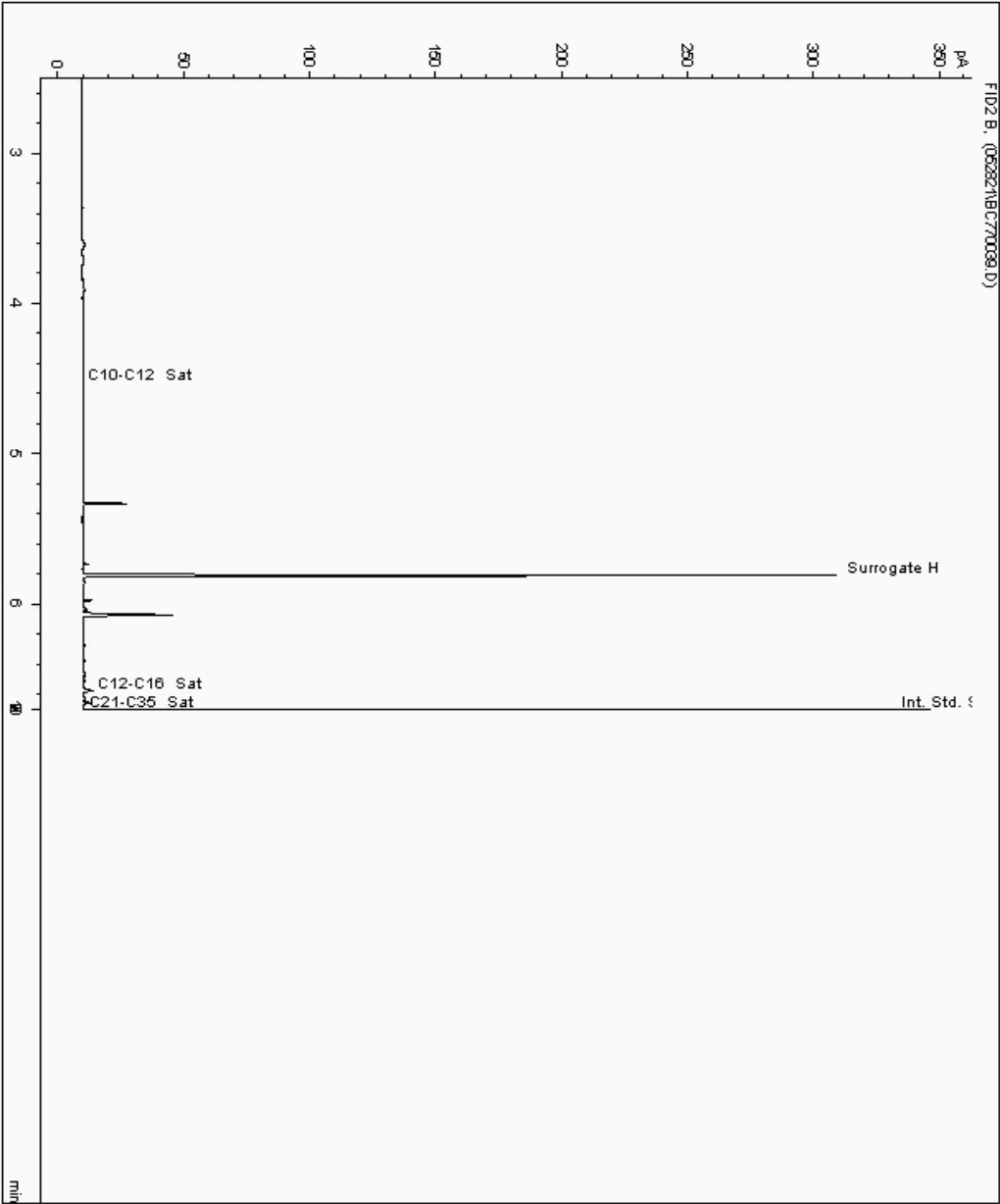
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24345774 Depth : 4.50
Sample ID : BH-PTR-27

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797339-
Date Acquired : 5/29/2021 7:34:39 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.031



CERTIFICATE OF ANALYSIS

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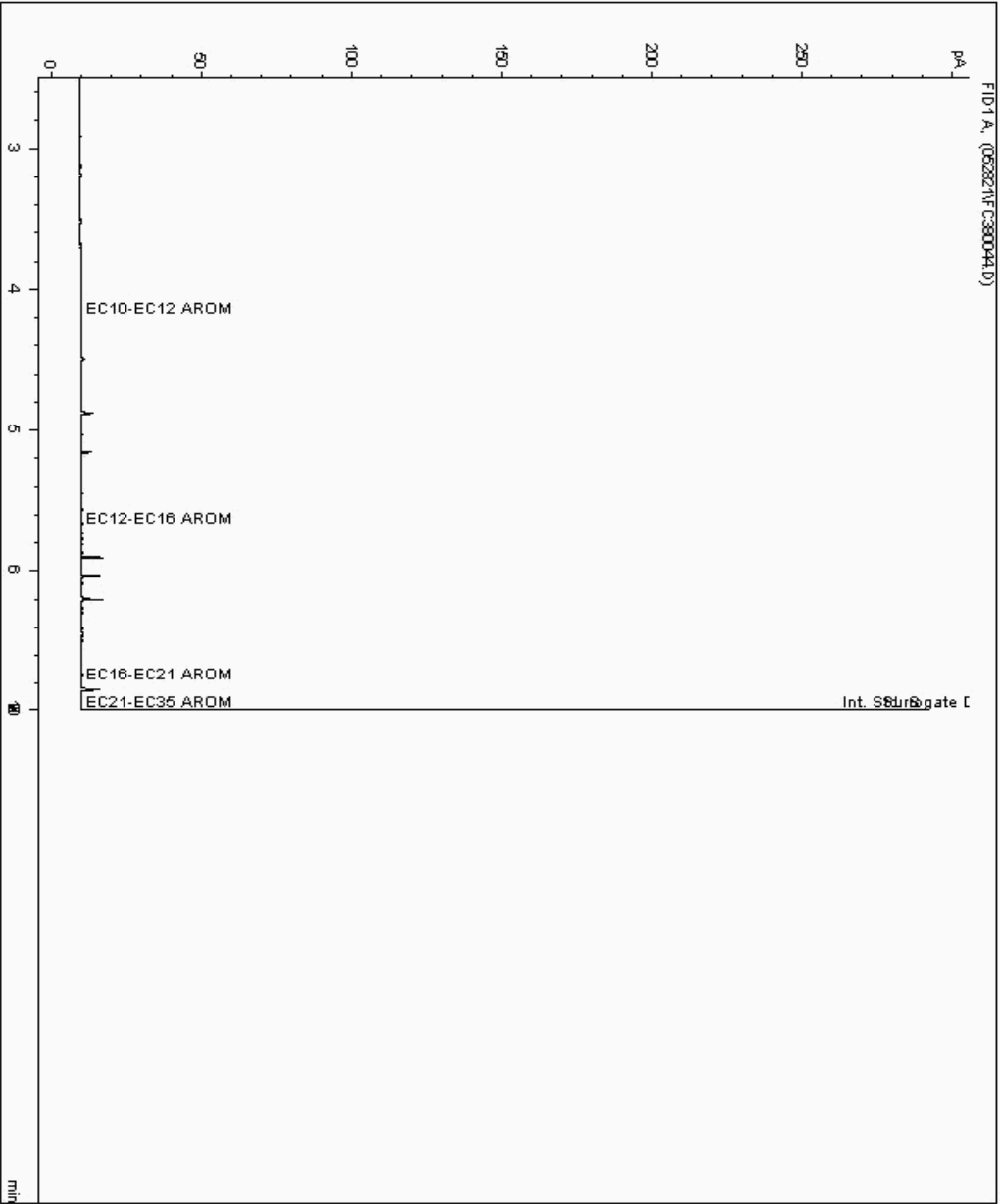
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344088 Depth : 2.00
Sample ID : BH-PTR-43S

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797268-
Date Acquired : 29/05/21 05:35:28 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.028





CERTIFICATE OF ANALYSIS

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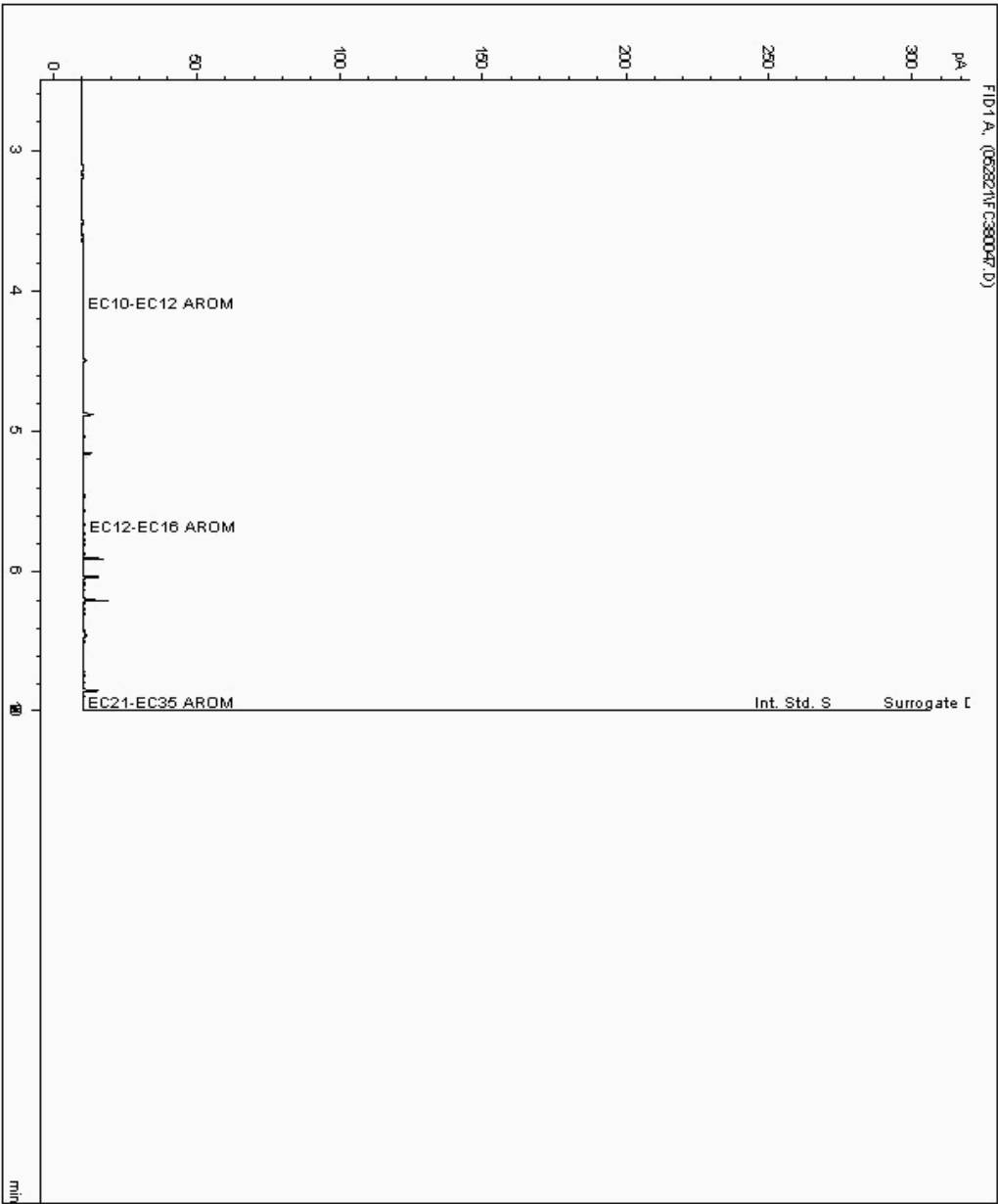
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344109 Depth : 7.50
Sample ID : BH-PTR-45

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22796814-
Date Acquired : 29/05/21 06:45:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.027



CERTIFICATE OF ANALYSIS

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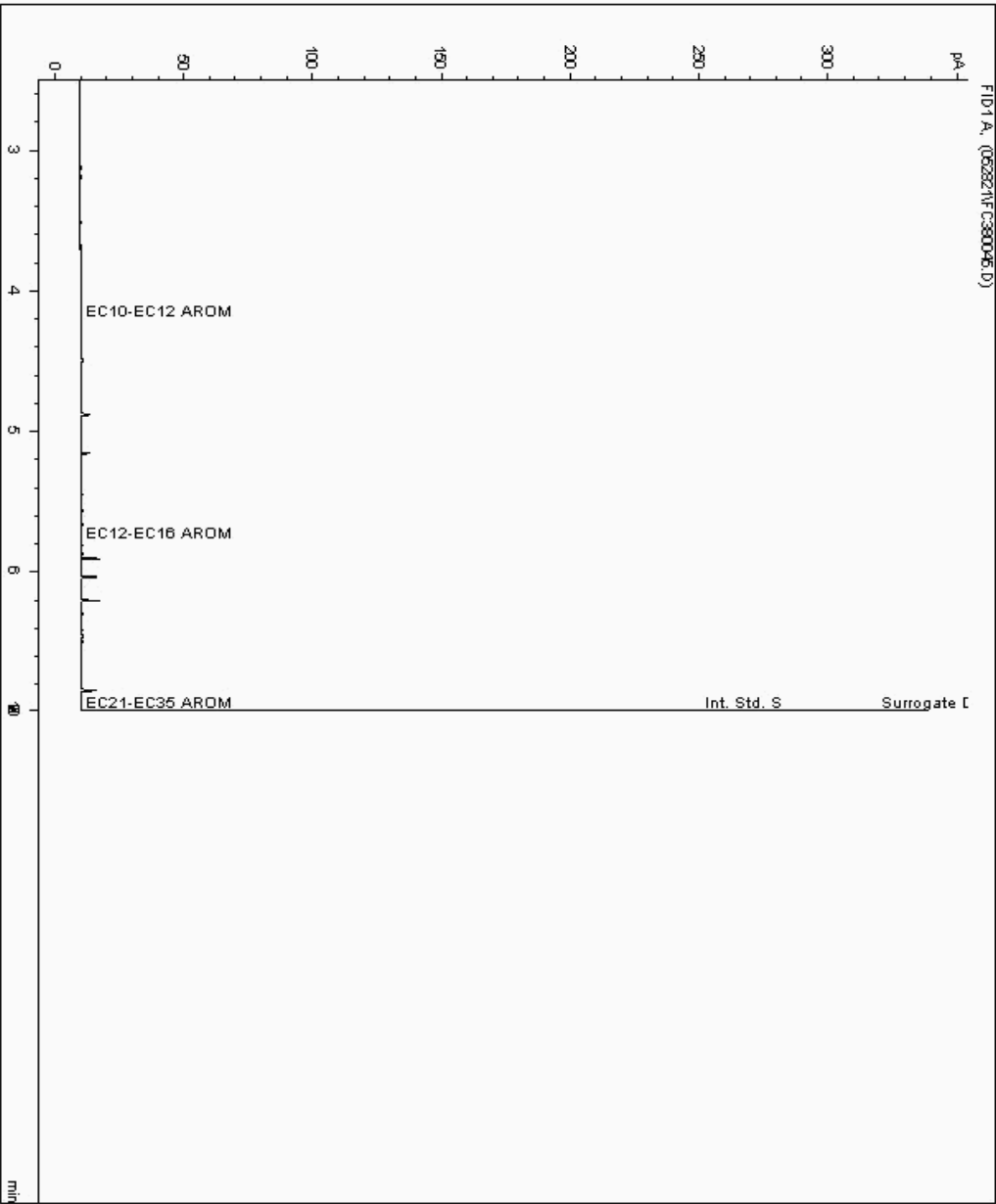
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344600 Depth : 1.70
Sample ID : BH-PTR-41S

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797203-
Date Acquired : 29/05/21 05:58:50 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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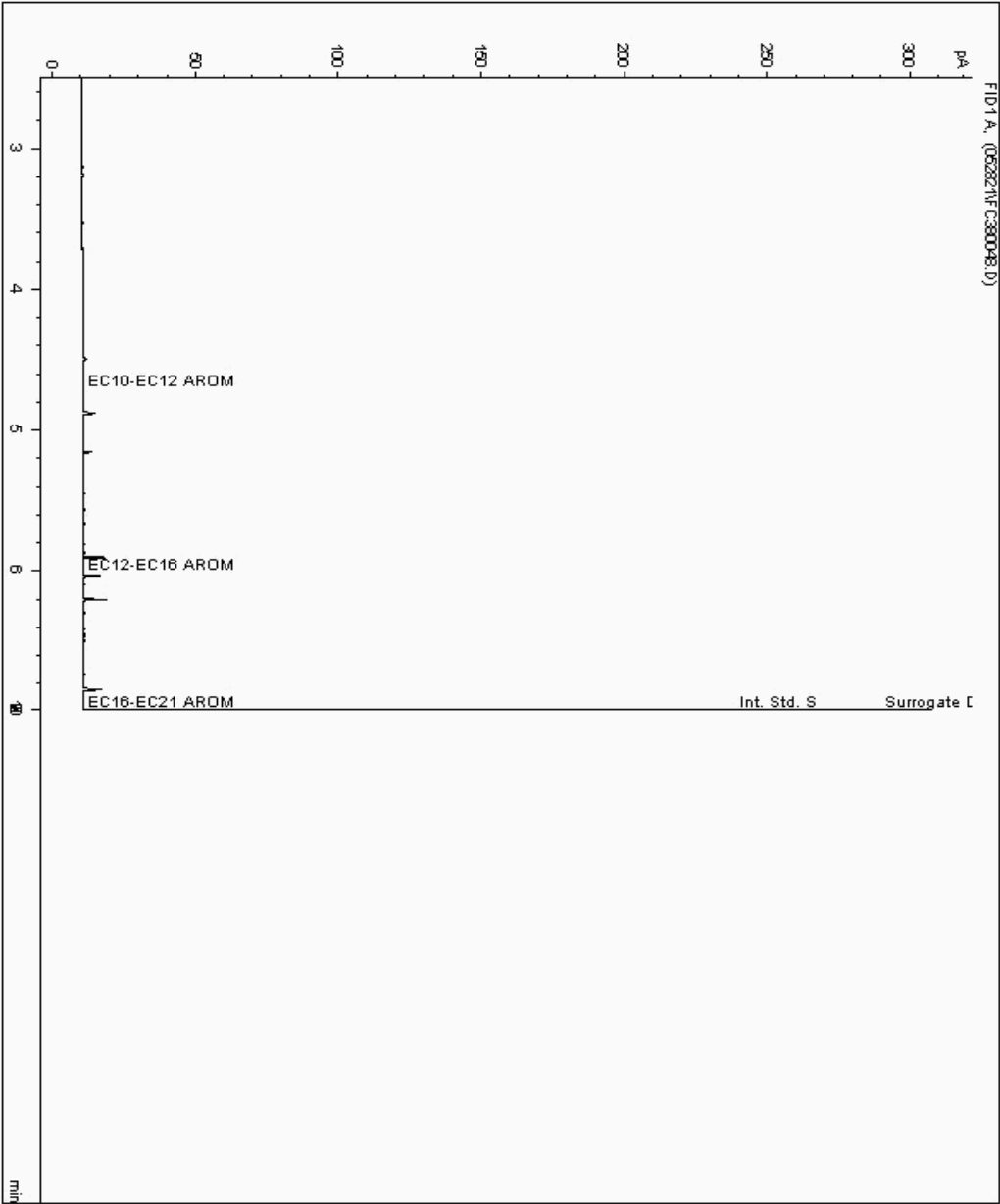
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344658 Depth : 6.50
Sample ID : BH-PTR-42D

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797235-
Date Acquired : 29/05/21 07:08:15 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

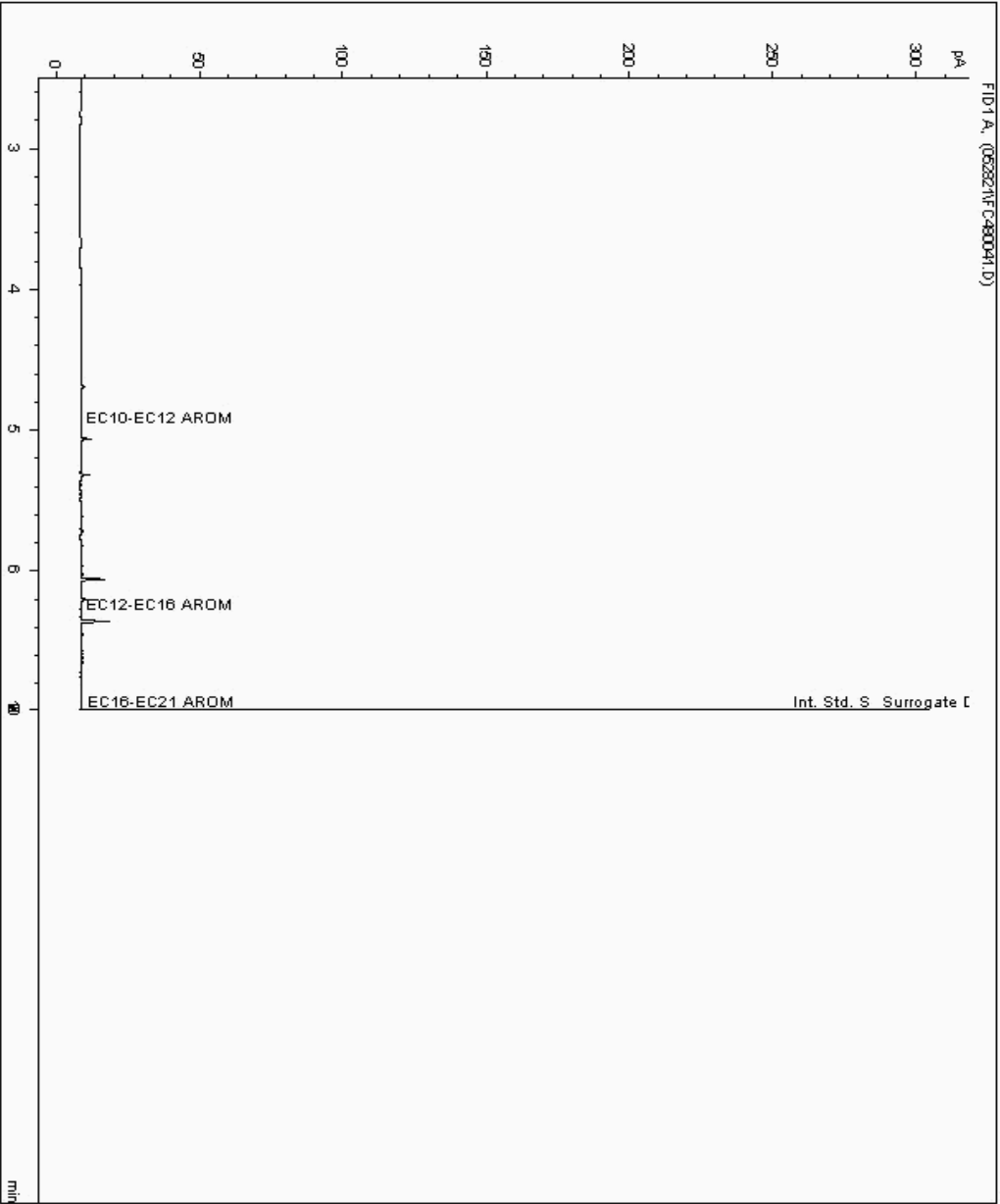
SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344689 Depth : 7.00
Sample ID : BH-PTR-43D

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797298-
Date Acquired : 29/05/2021 07:30:25 PM
Units : ppb
Dilution : SE BH-PTR-43D[7.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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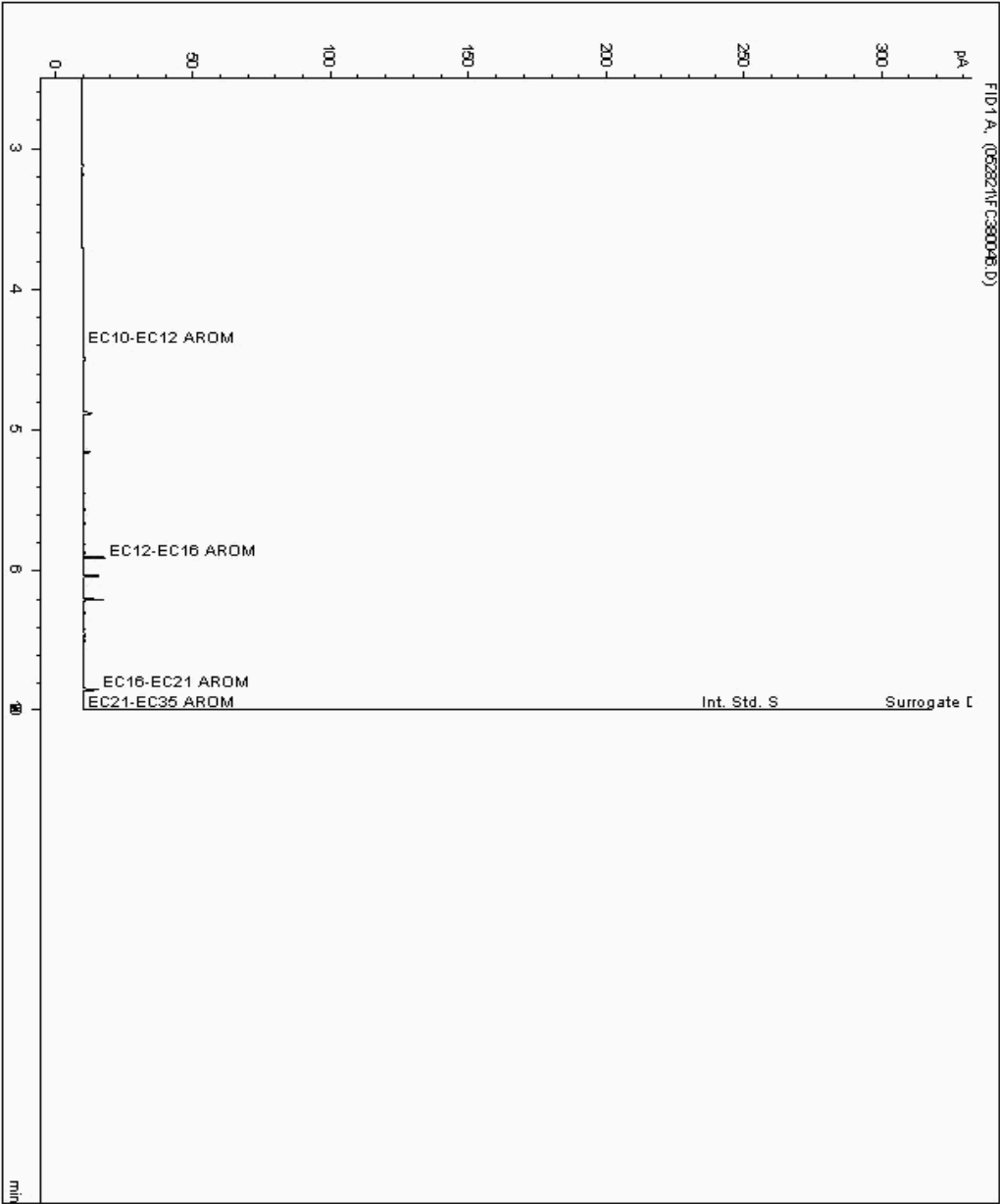
SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344710 Depth : 4.40
Sample ID : BH-PTR-18

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797132-
Date Acquired : 29/05/21 06:22:02 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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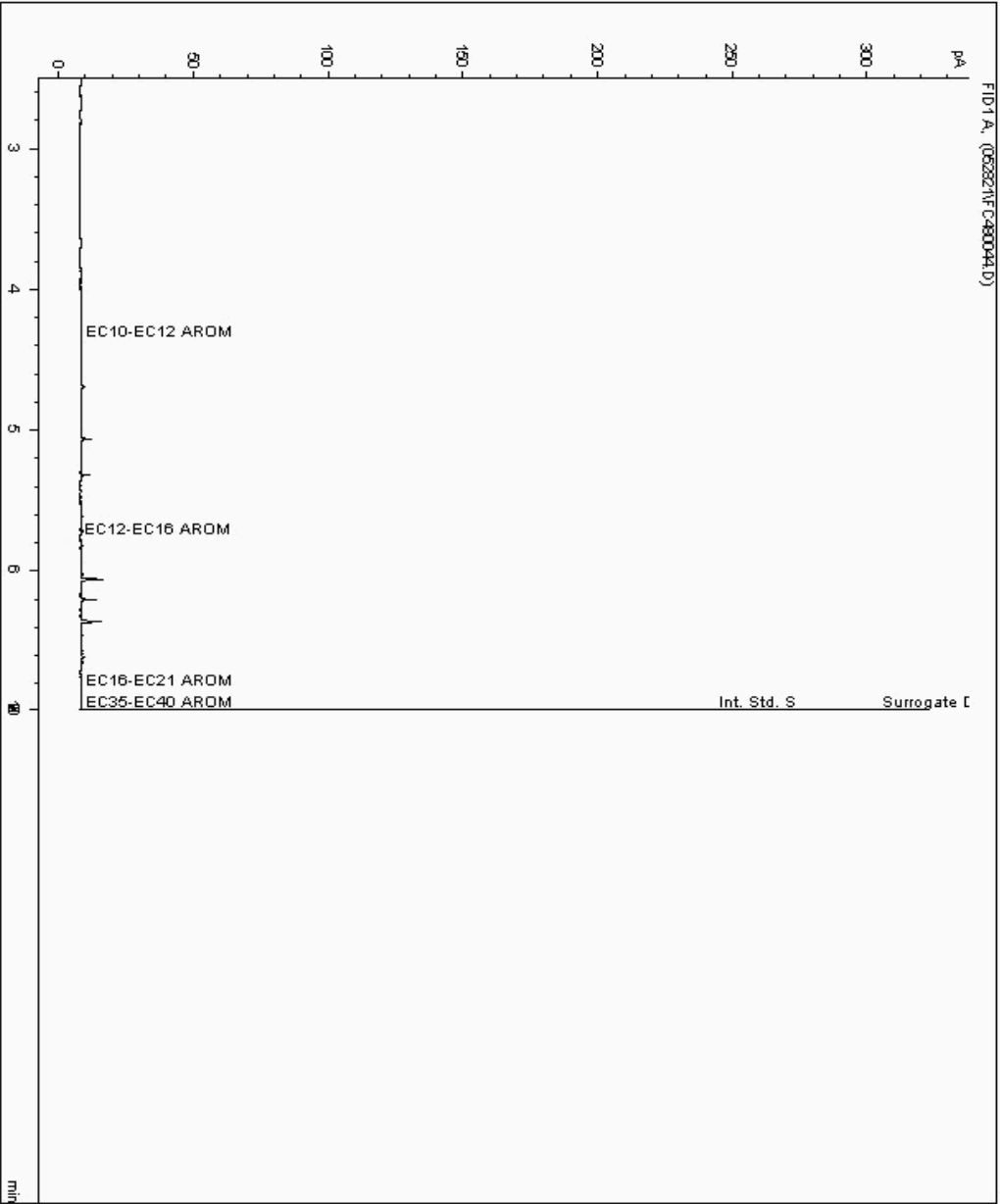
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344734 Depth : 3.25
Sample ID : BH-PTR-19

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797103-
Date Acquired : 29/05/2021 08:39:09 PM
Units : ppb
Dilution : SE BH-PTR-19[3.25] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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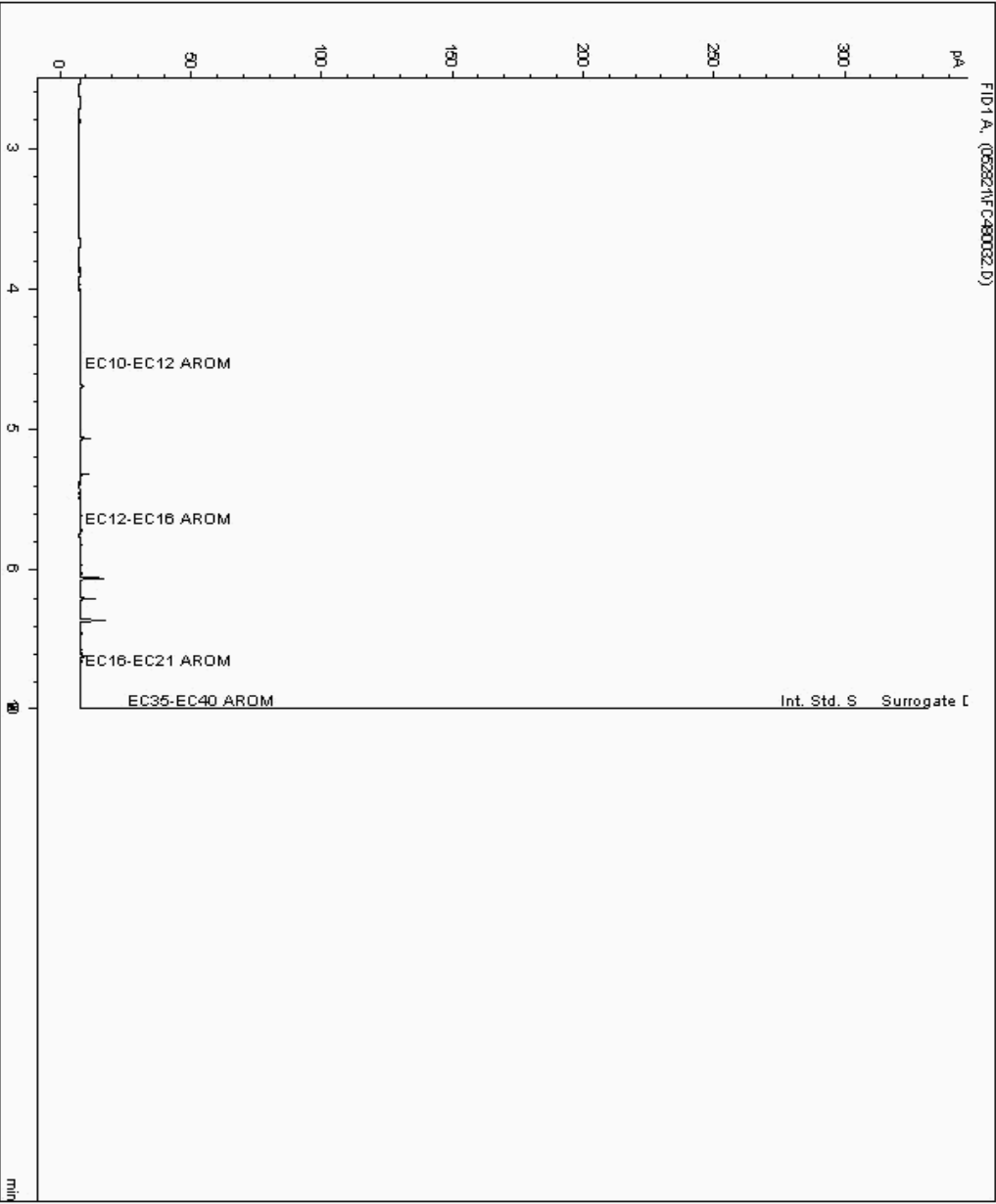
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344988 Depth : 13.00
Sample ID : BH-PTR-39

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797033-
Date Acquired : 29/05/2021 04:02:47 PM
Units : ppb
Dilution : SE BH-PTR-39[13.00] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

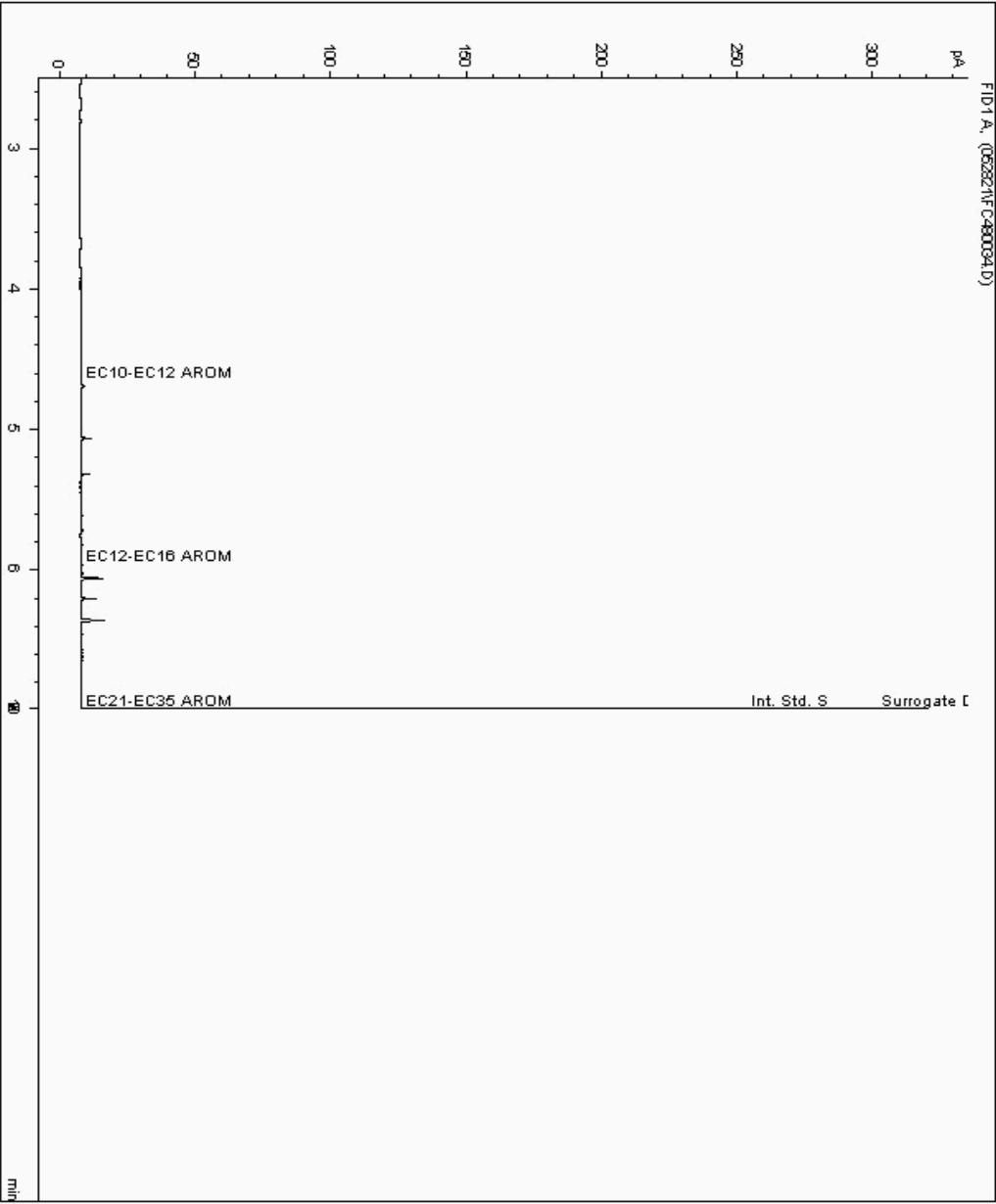
SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24344993 Depth : 2.75
Sample ID : BH-PTR-36

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797004-
Date Acquired : 29/05/2021 04:48:48 PM
Units : ppb
Dilution : SE BH-PTR-36[2.75] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

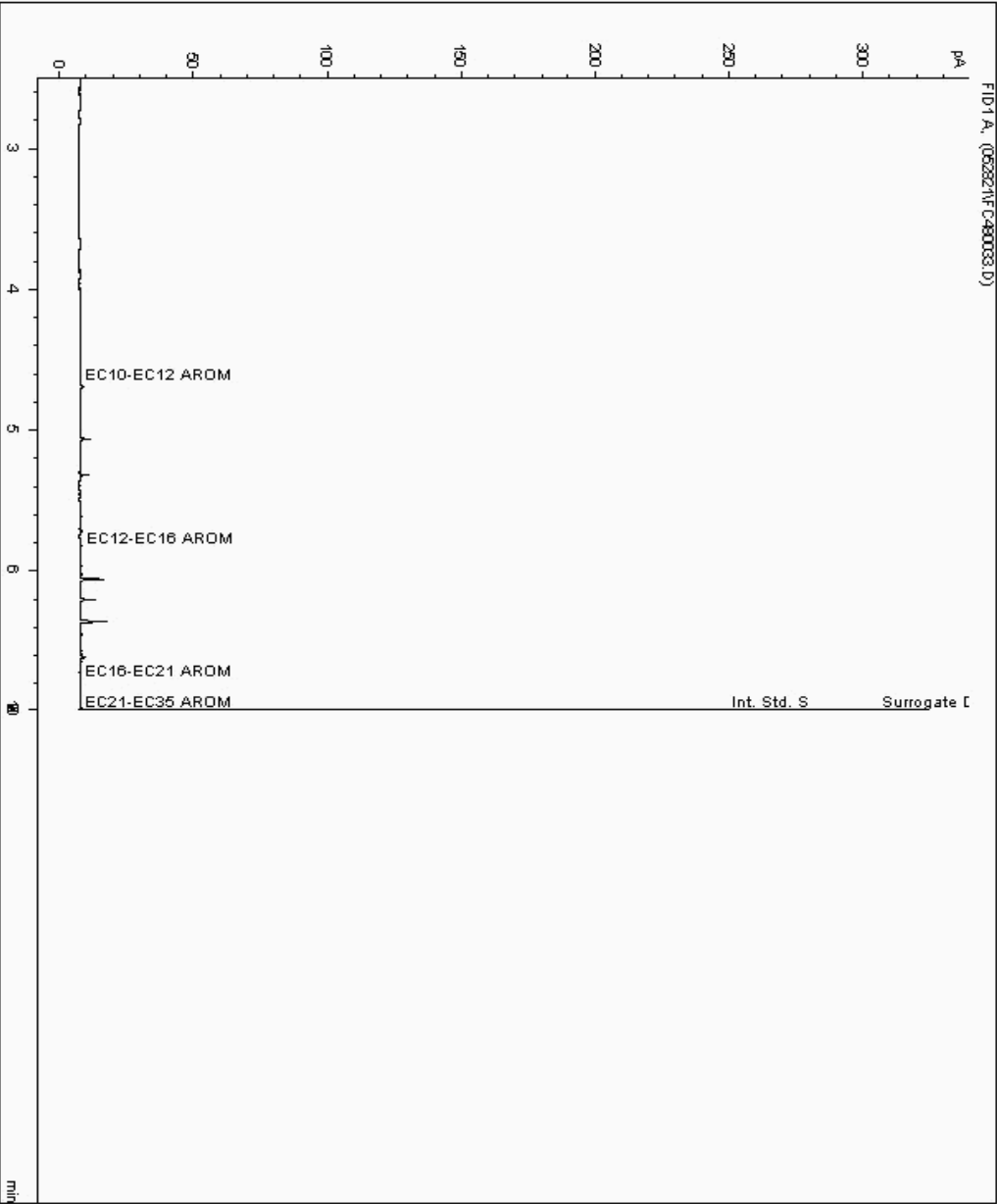
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345001 Depth : 7.50
Sample ID : BH-PTR-41D

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797166-
Date Acquired : 29/05/2021 04:25:57 PM
Units : ppb
Dilution : SE BH-PTR-41D[7.50] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

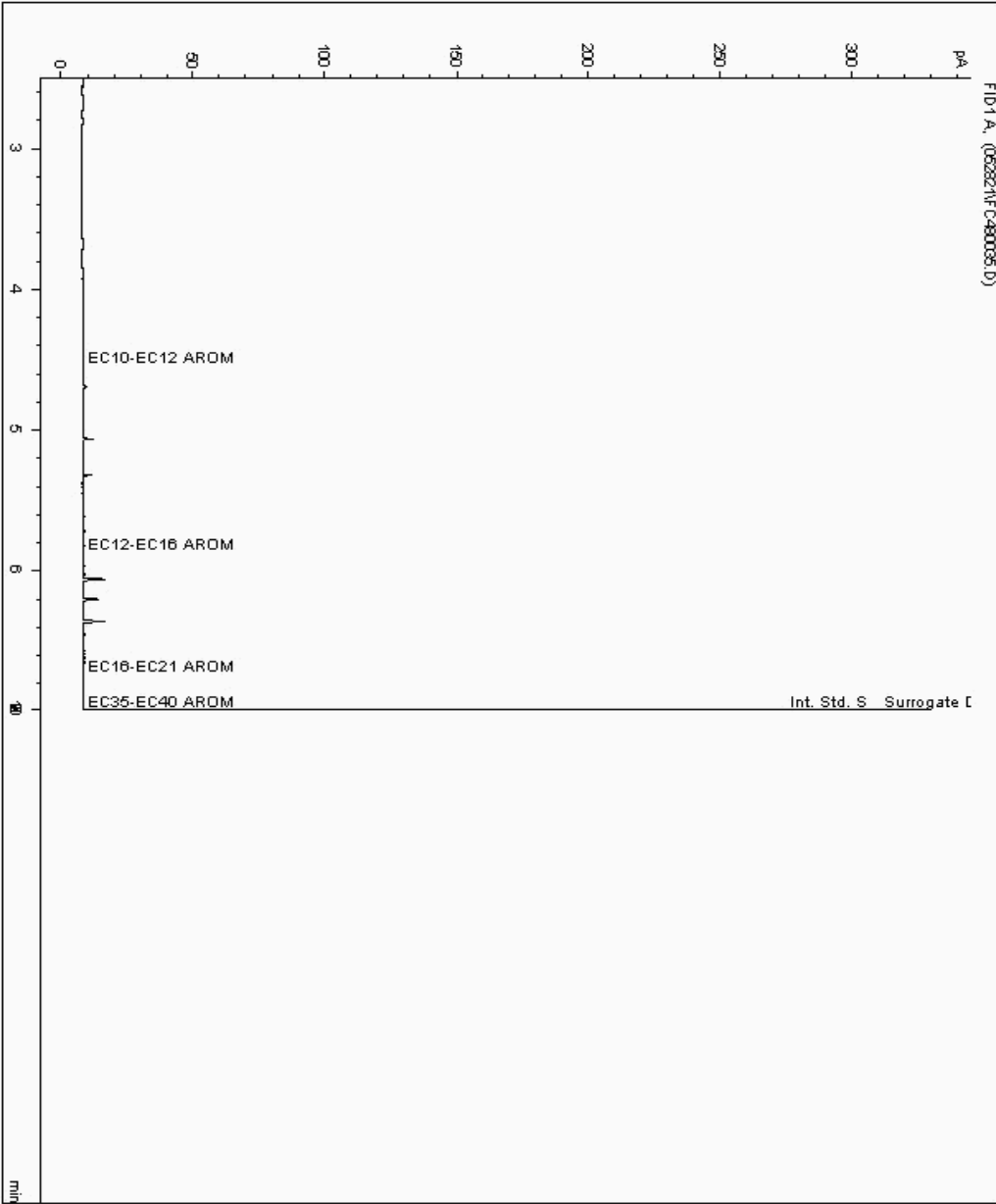
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345008 Depth : 2.00
Sample ID : BH-PTR-35

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22797069-
Date Acquired : 29/05/2021 05:11:59 PM
Units : ppb
Dilution : SE BH-PTR-35[2.00] ->
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

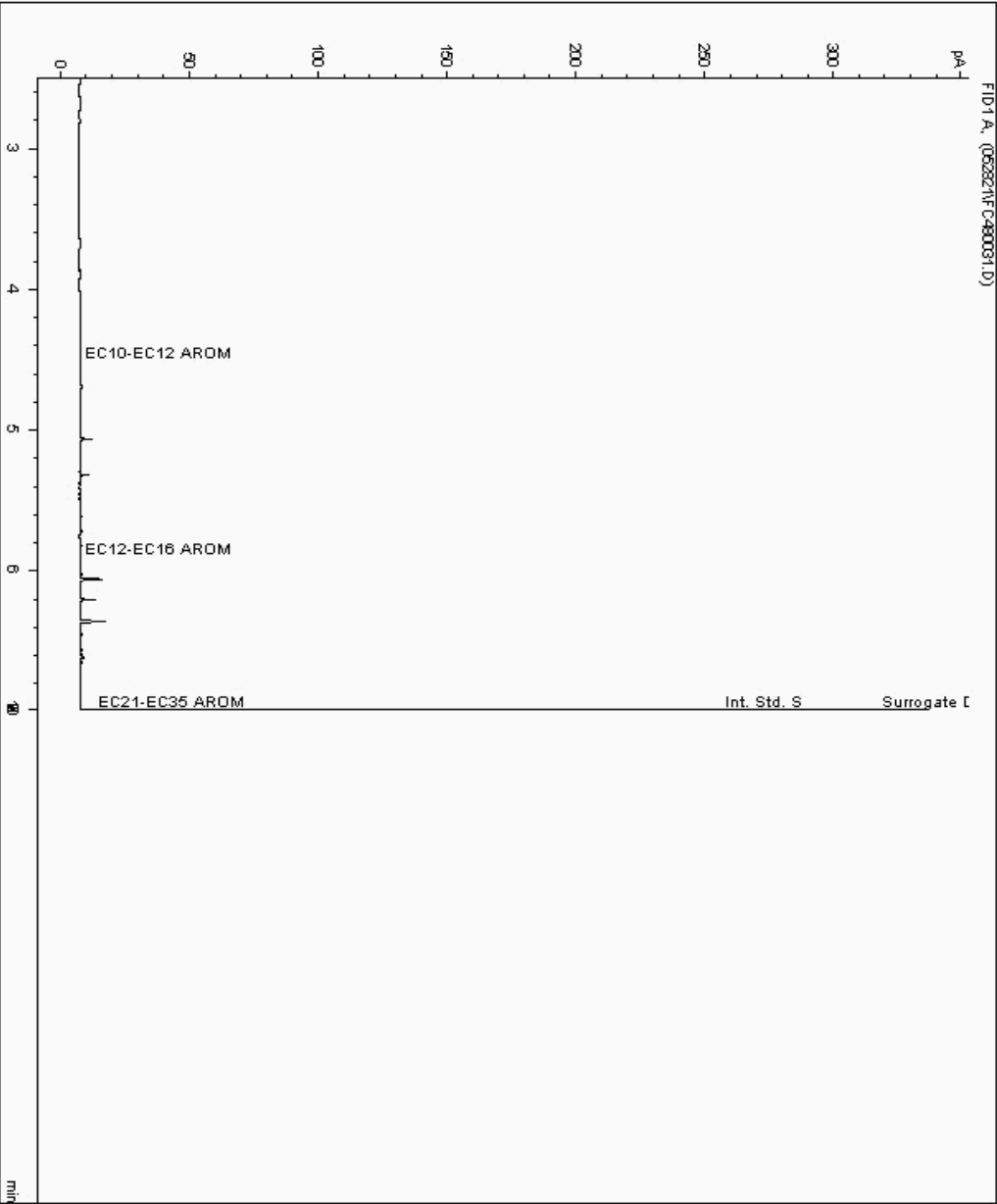
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345018 Depth : 3.00
Sample ID : BH-PTR-33S

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 22796915-
Date Acquired : 29/05/2021 03:39:37 PM
Units : ppb
Dilution : SE BH-PTR-33S[3.00] ->
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

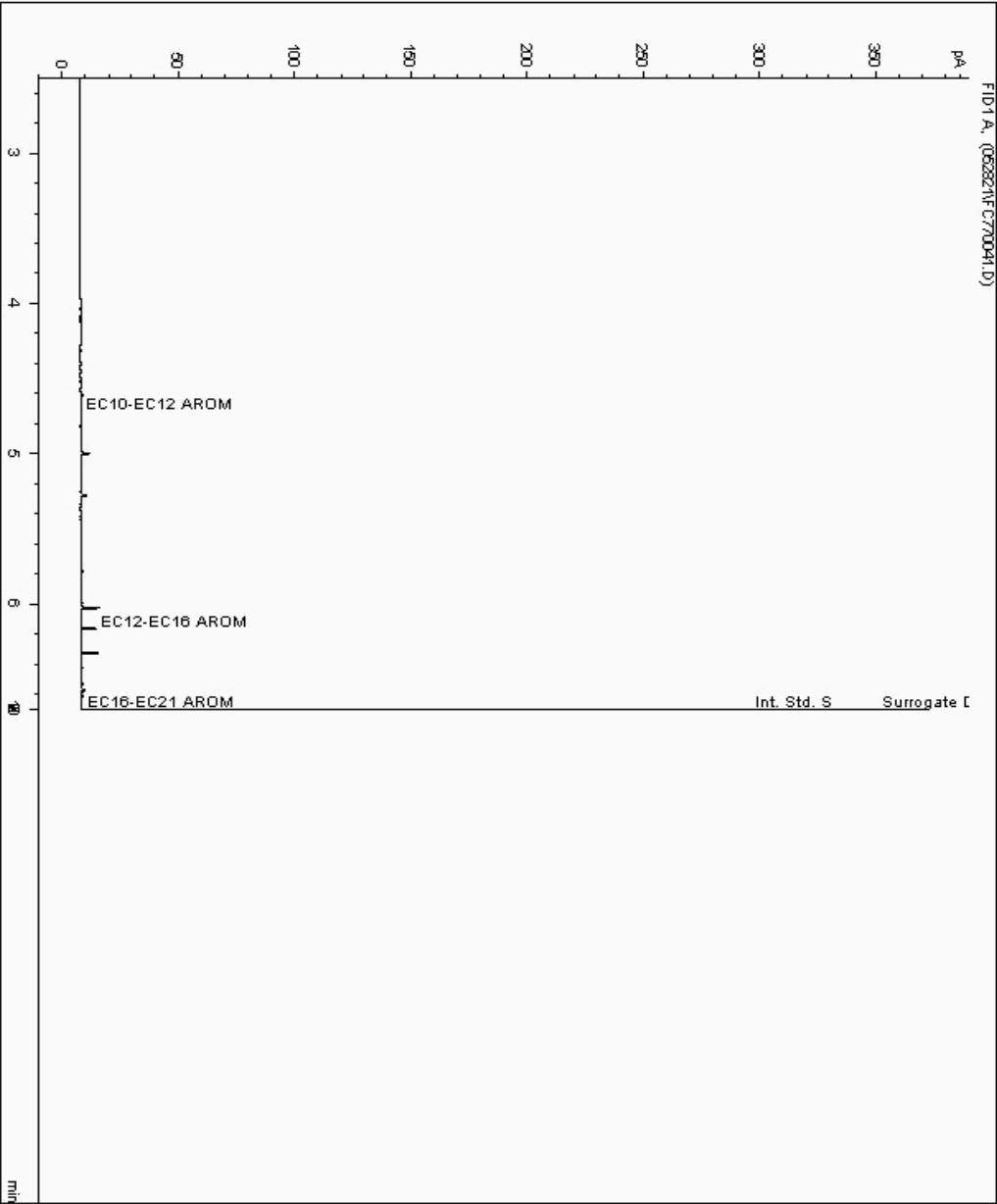
SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345721 Depth : 8.00
Sample ID : BH-PTR-31

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796883-
Date Acquired : 5/29/2021 8:21:05 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.027





CERTIFICATE OF ANALYSIS

Validated

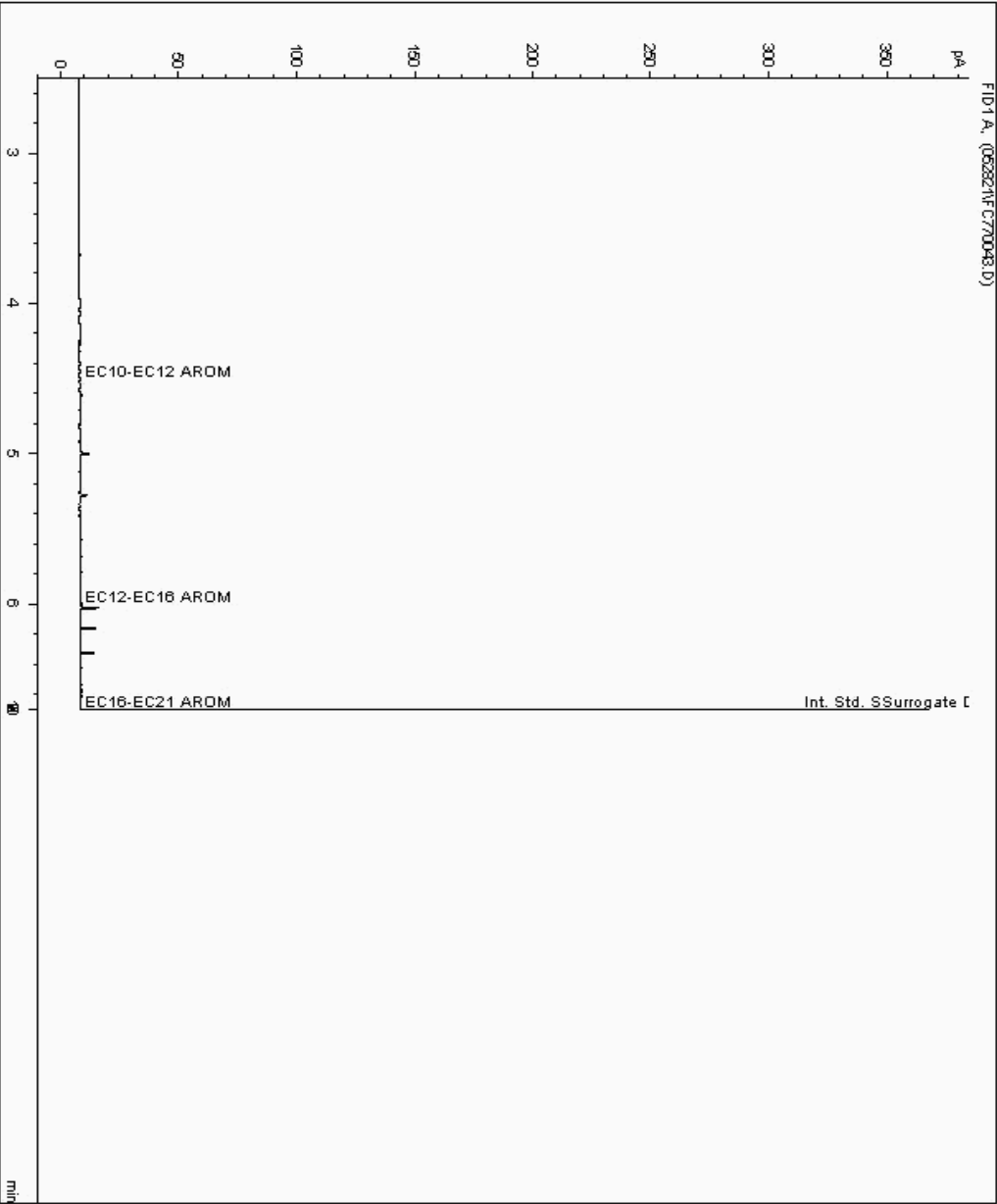
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345731 Depth : 18.50
Sample ID : BH-PTR-30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796975-
Date Acquired : 5/29/2021 9:07:17 AM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.026



CERTIFICATE OF ANALYSIS

Validated

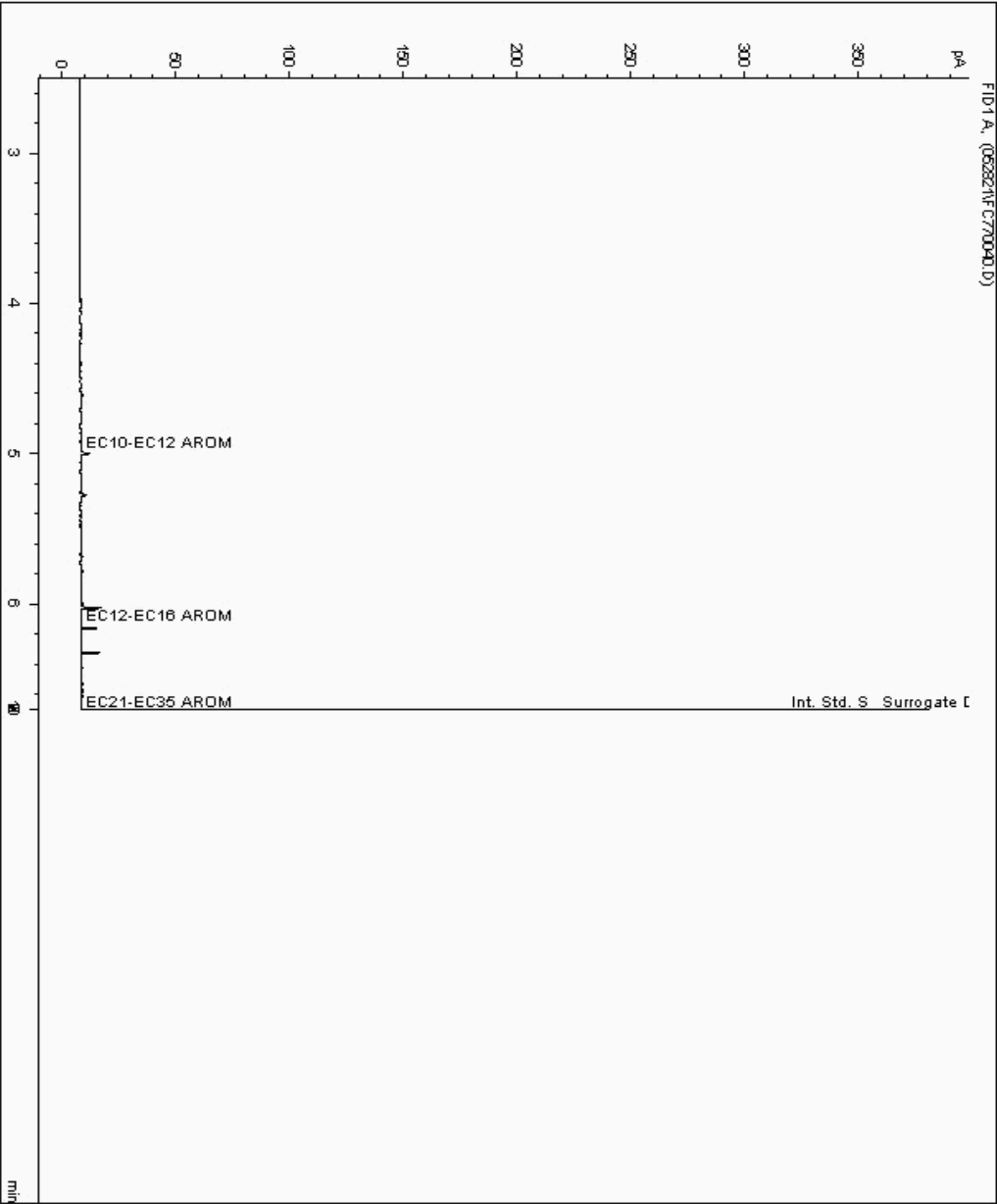
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345764 Depth : 25.00
Sample ID : BH-PTR-33D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796947-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

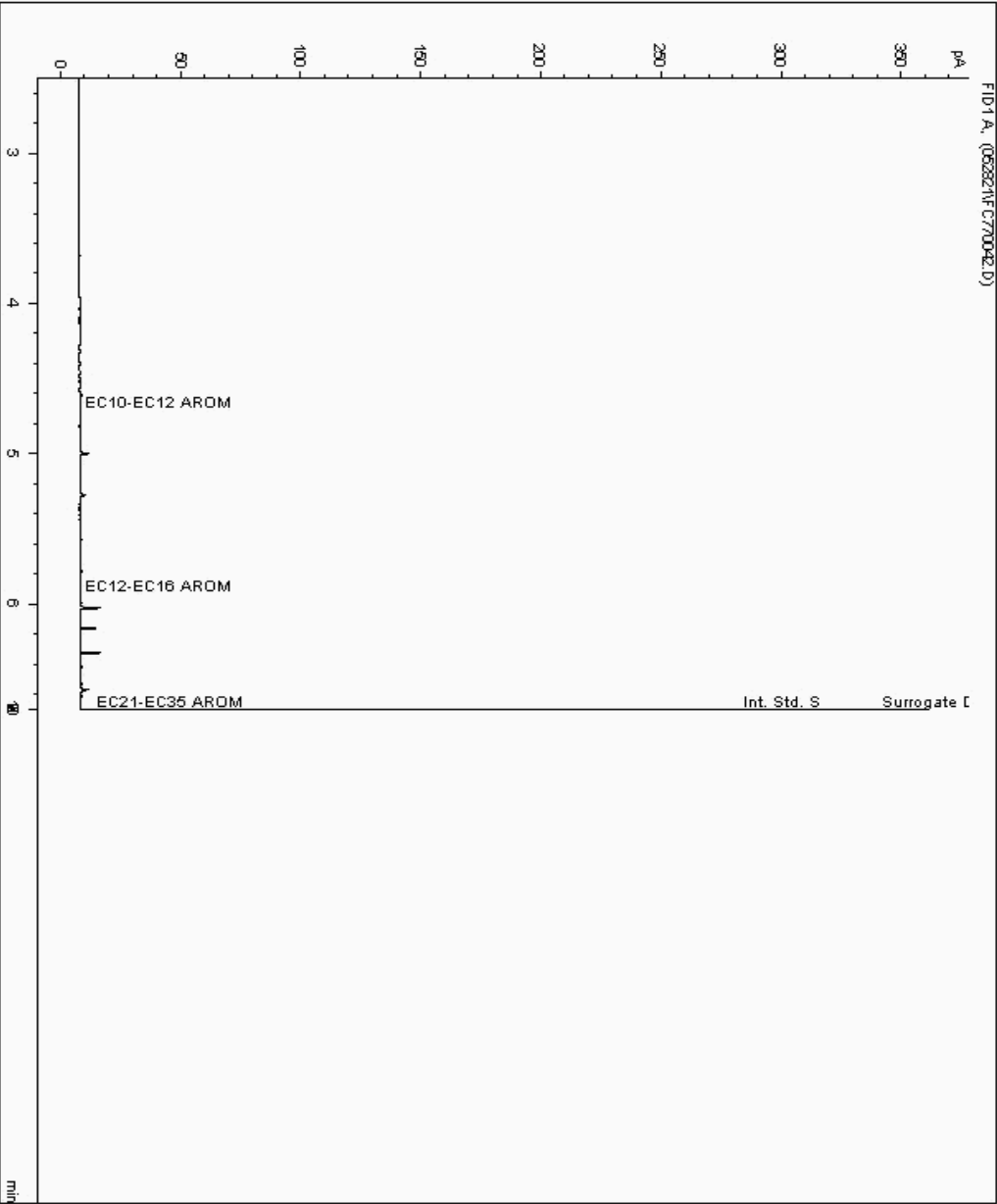
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345770 Depth : 3.00
Sample ID : BH-PTR-21

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22796853-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

Validated

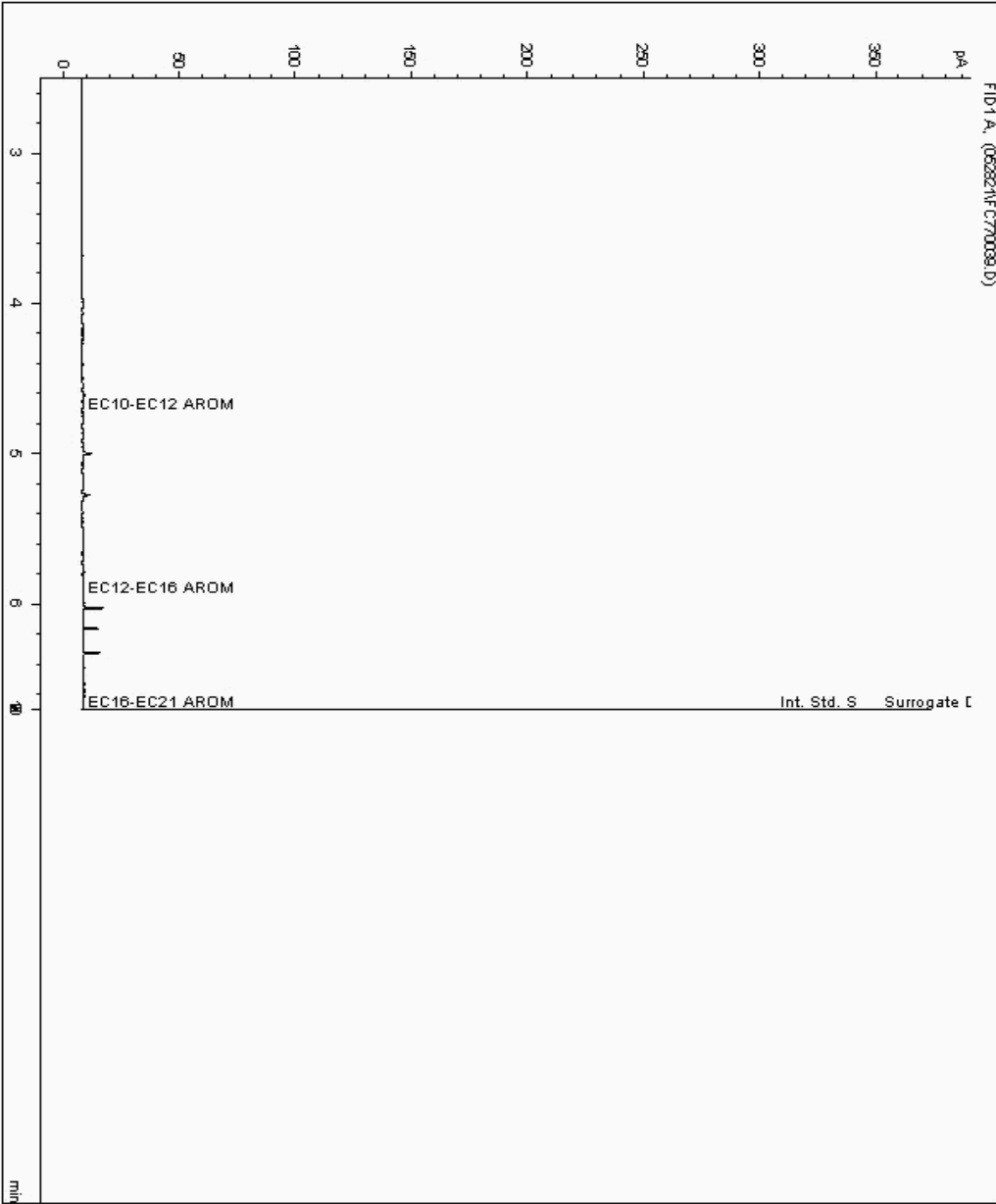
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24345774 Depth : 4.50
Sample ID : BH-PTR-27

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22797340-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.031





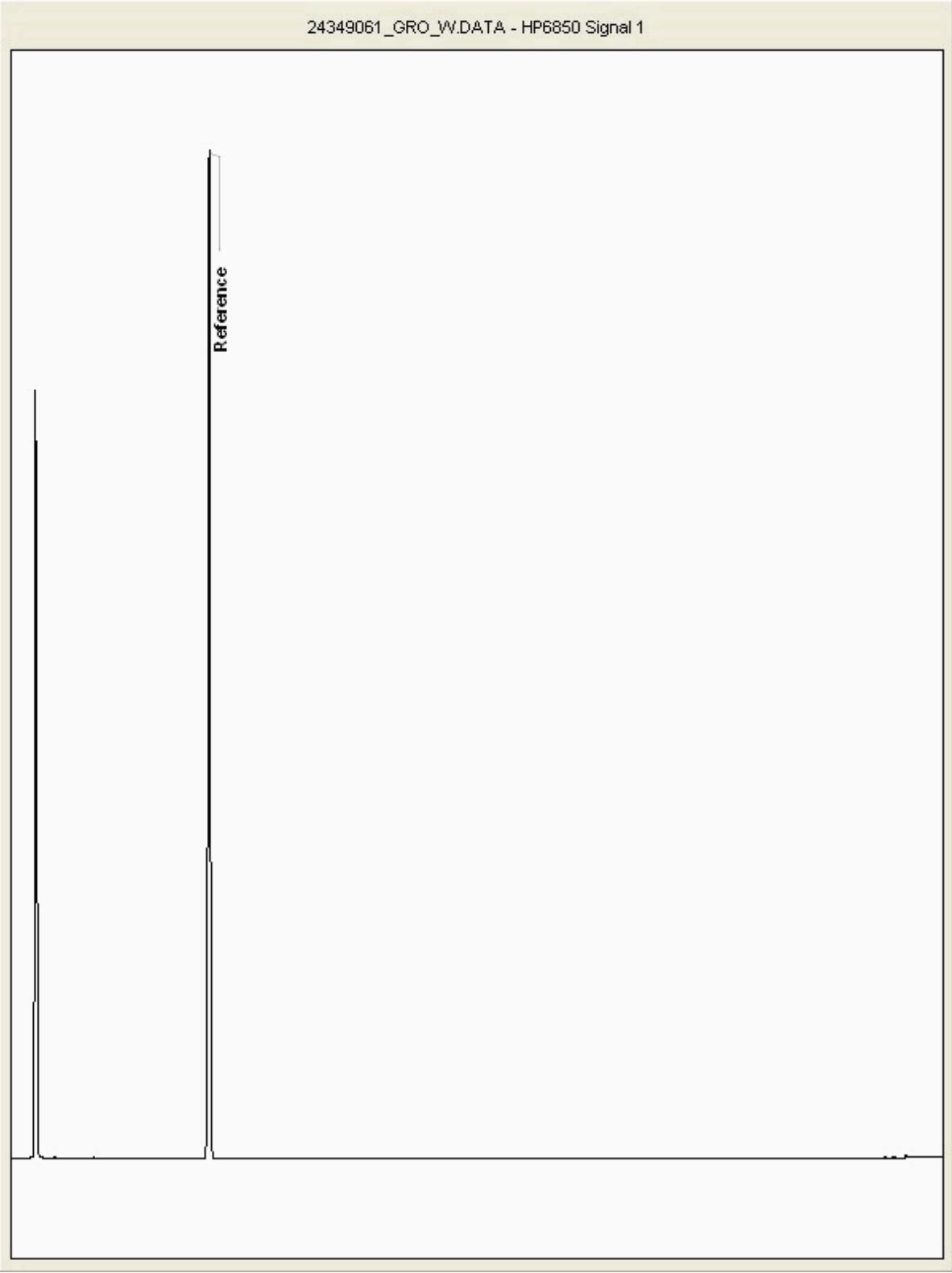
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349061 Depth : 7.00
Sample ID : BH-PTR-43D



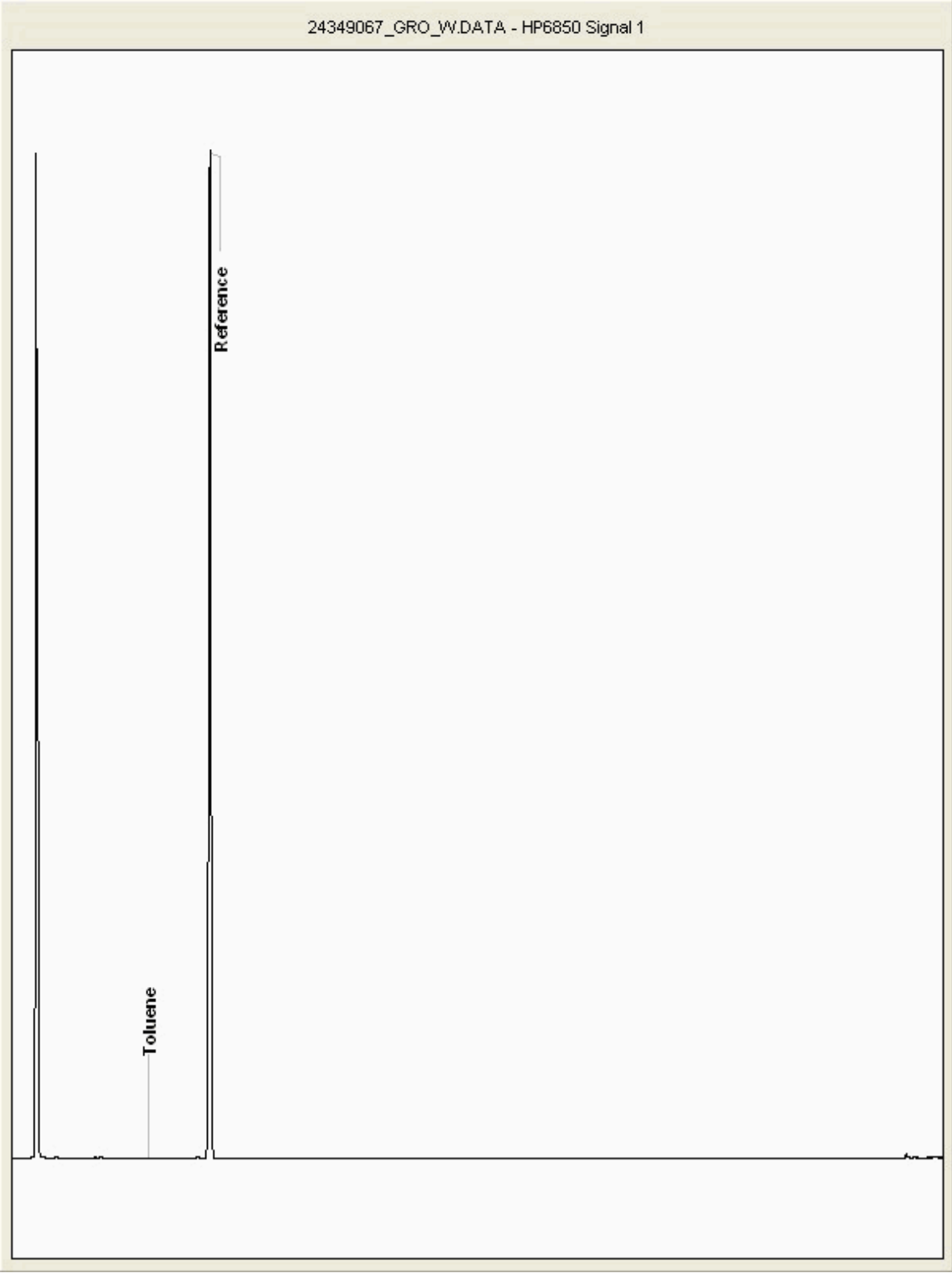
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349067 Depth : 2.00
Sample ID : BH-PTR-43S





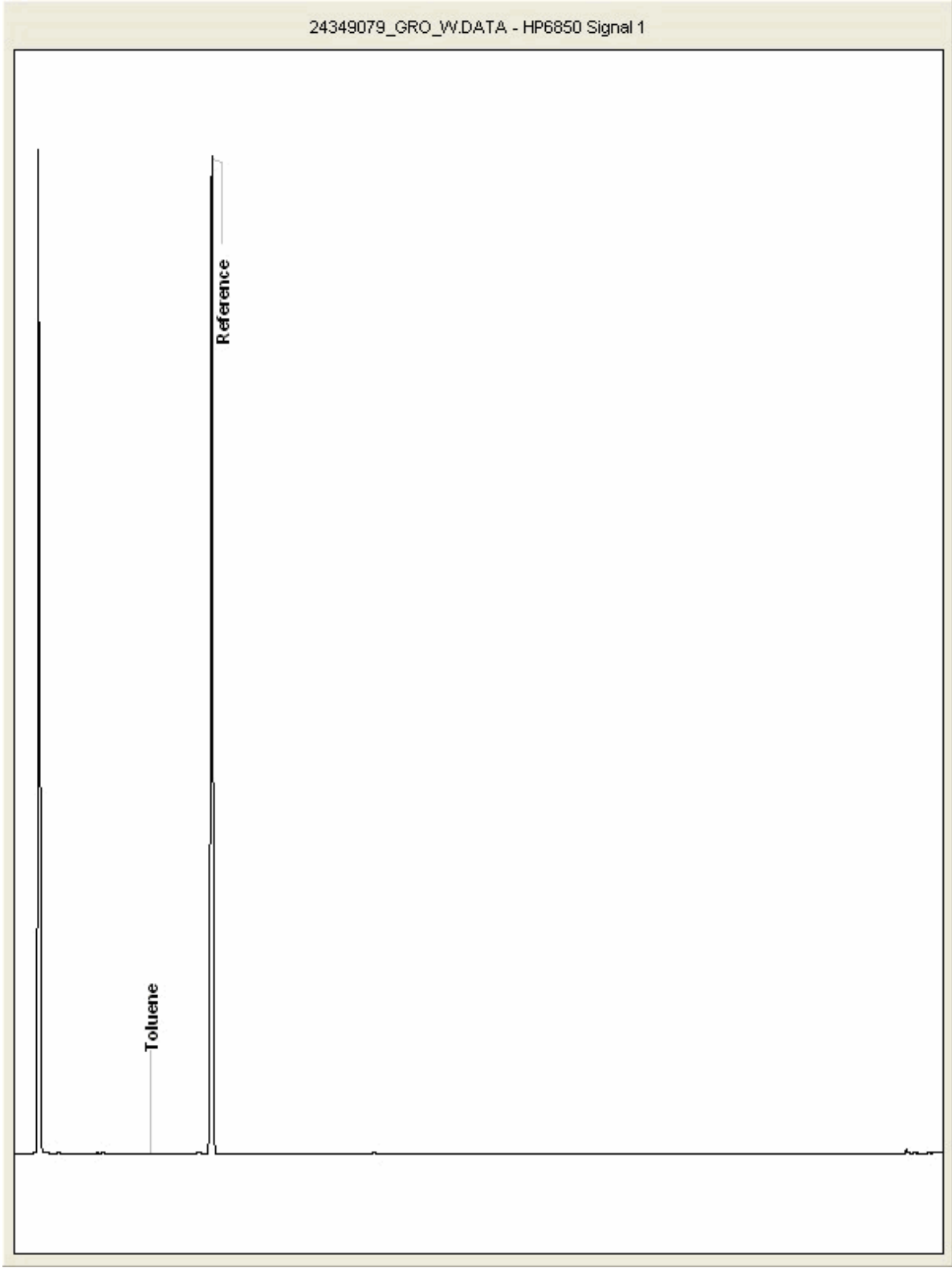
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Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349079 Depth : 6.50
Sample ID : BH-PTR-42D



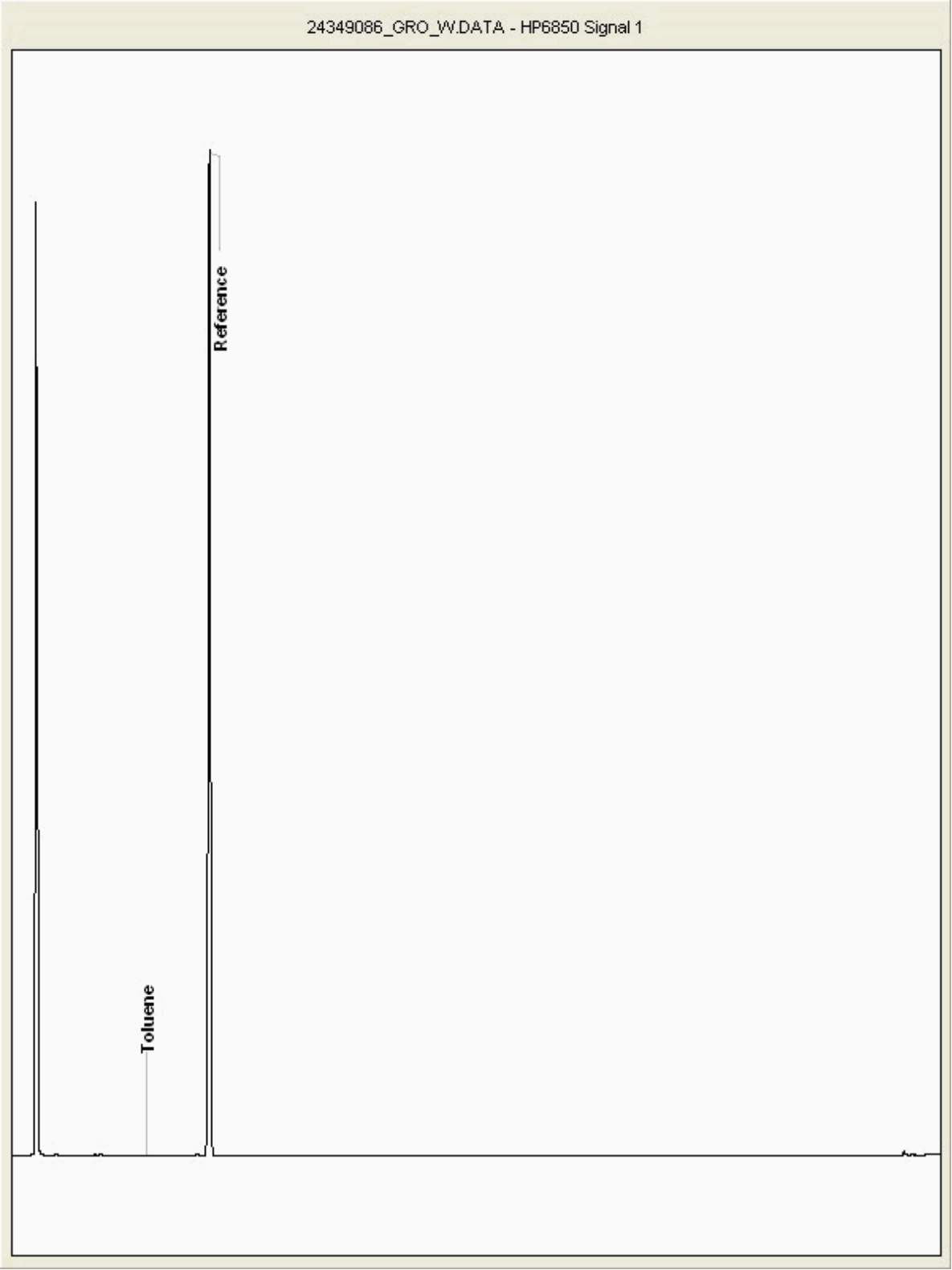
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349086 Depth : 1.70
Sample ID : BH-PTR-41S





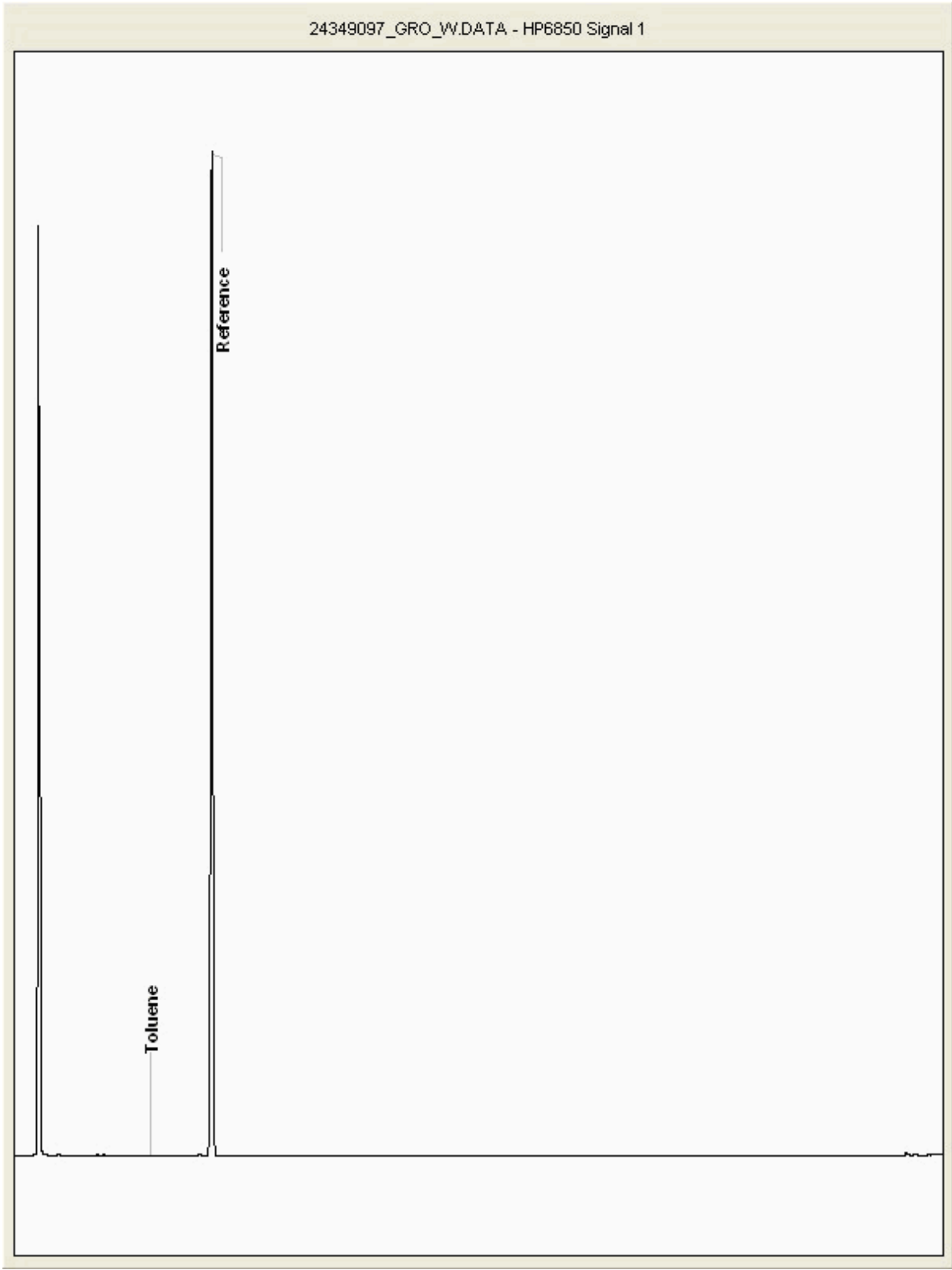
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349097 Depth : 7.50
Sample ID : BH-PTR-45



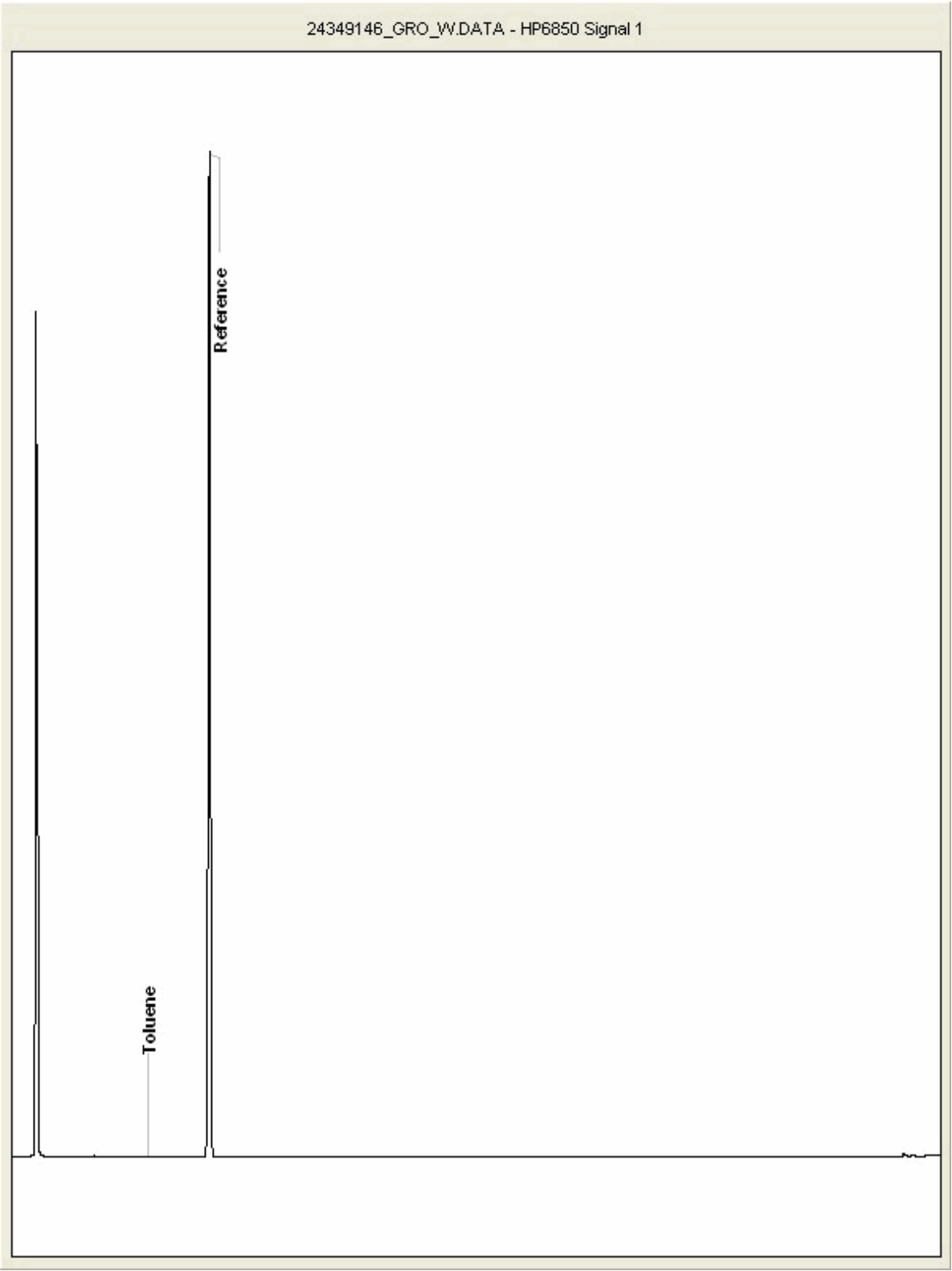
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349146 Depth : 7.50
Sample ID : BH-PTR-41D





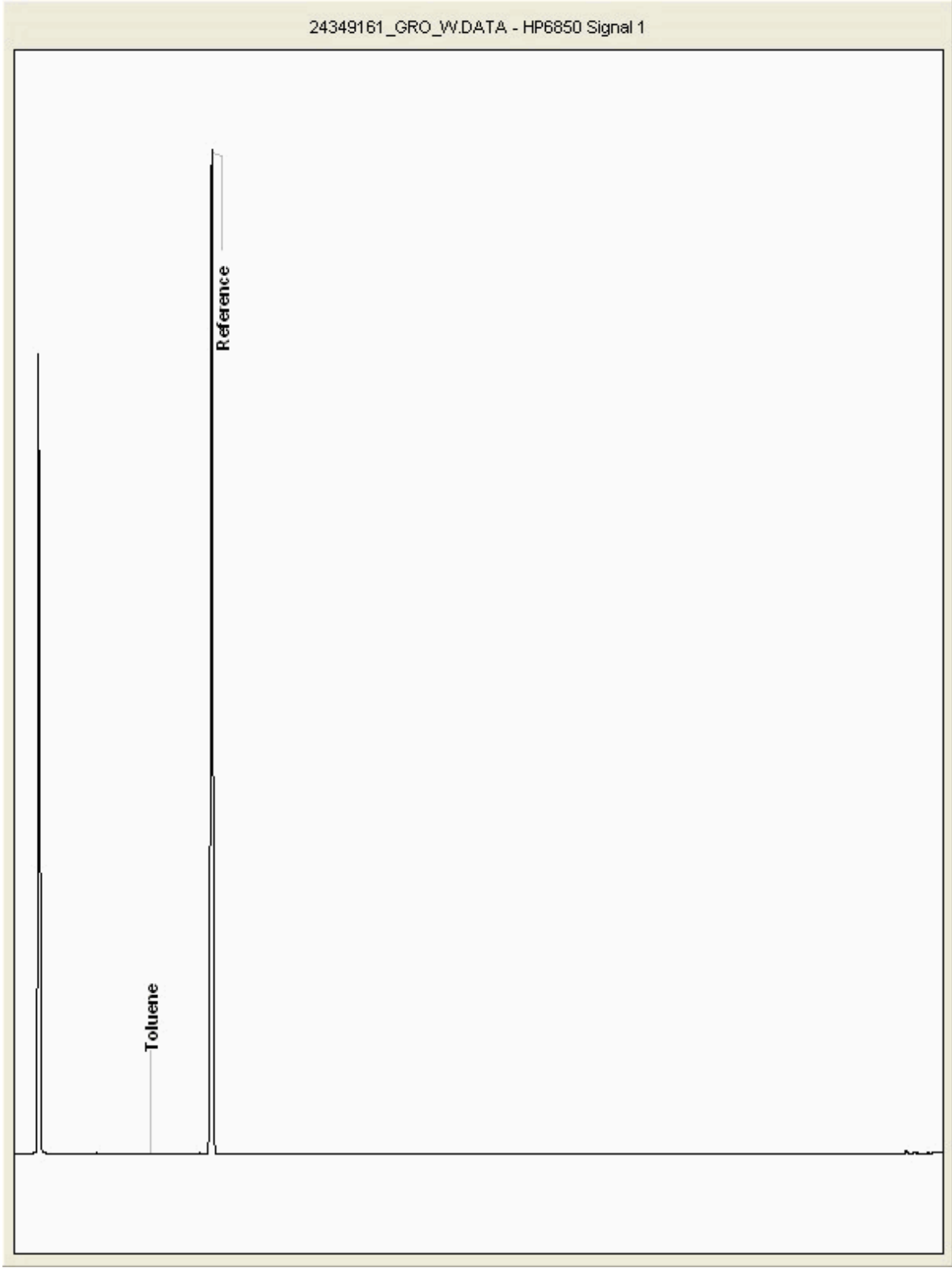
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349161 Depth : 2.00
Sample ID : BH-PTR-35



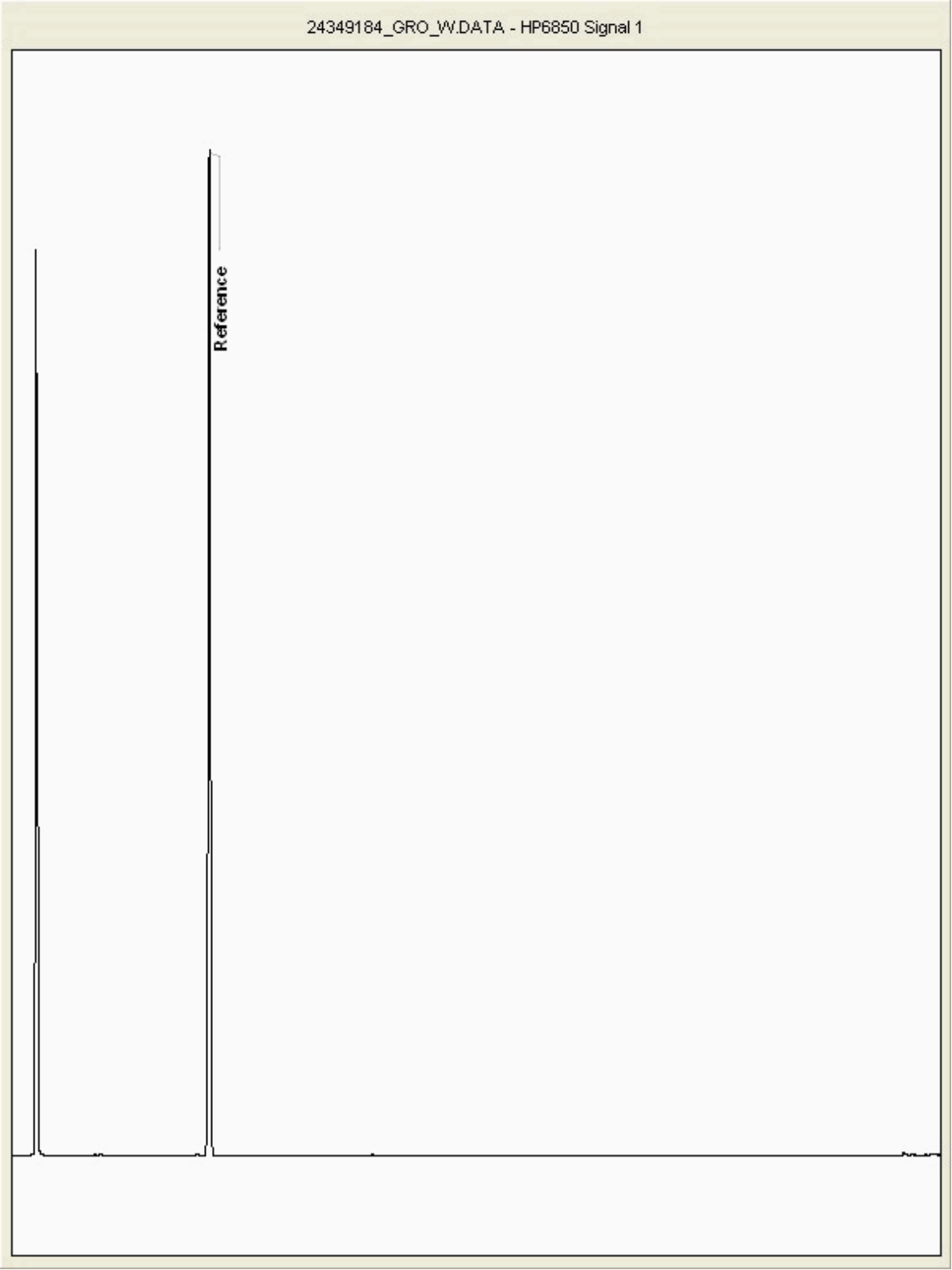
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349184 Depth : 13.00
Sample ID : BH-PTR-39





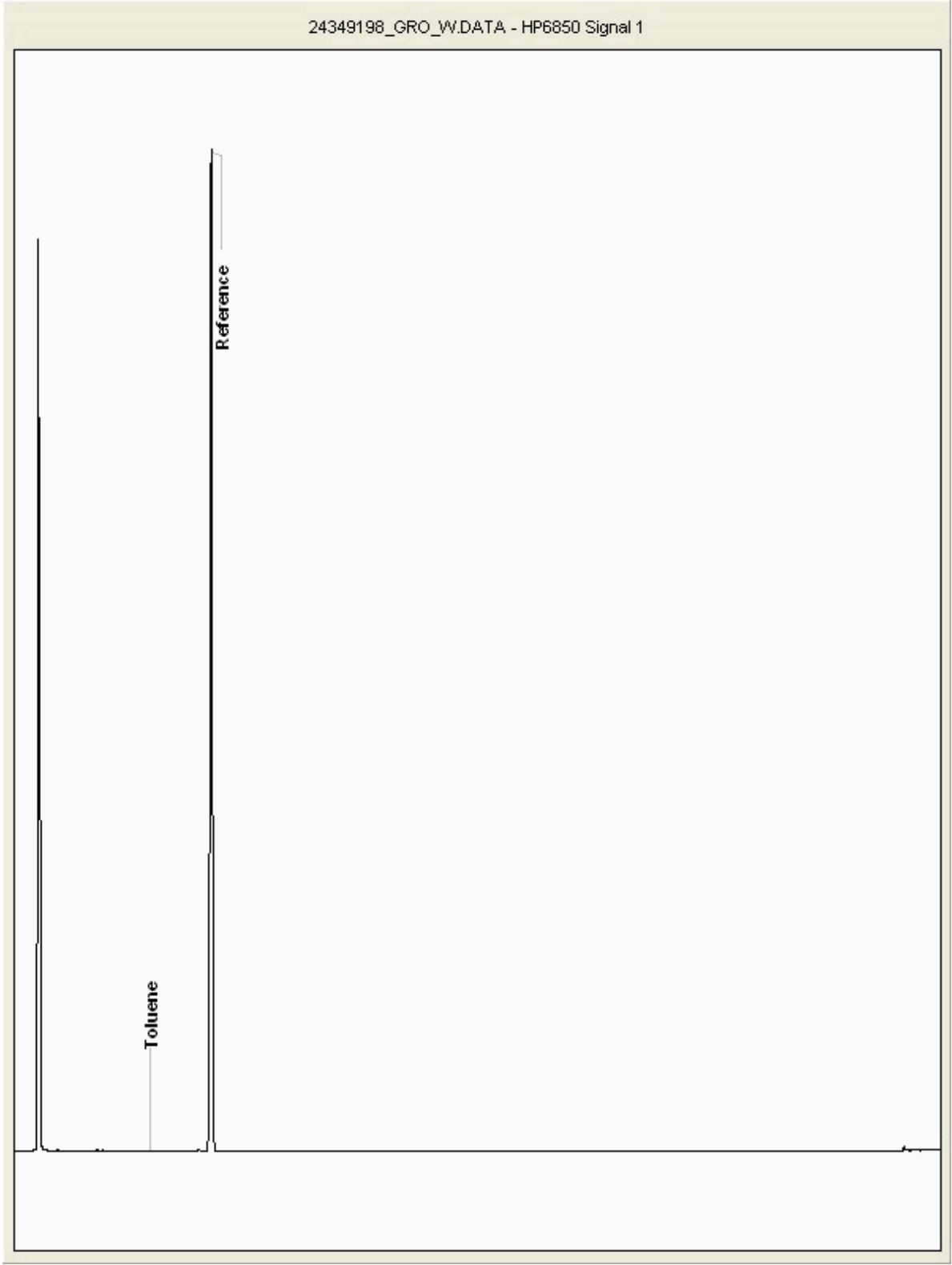
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Validated

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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349198 Depth : 2.75
Sample ID : BH-PTR-36



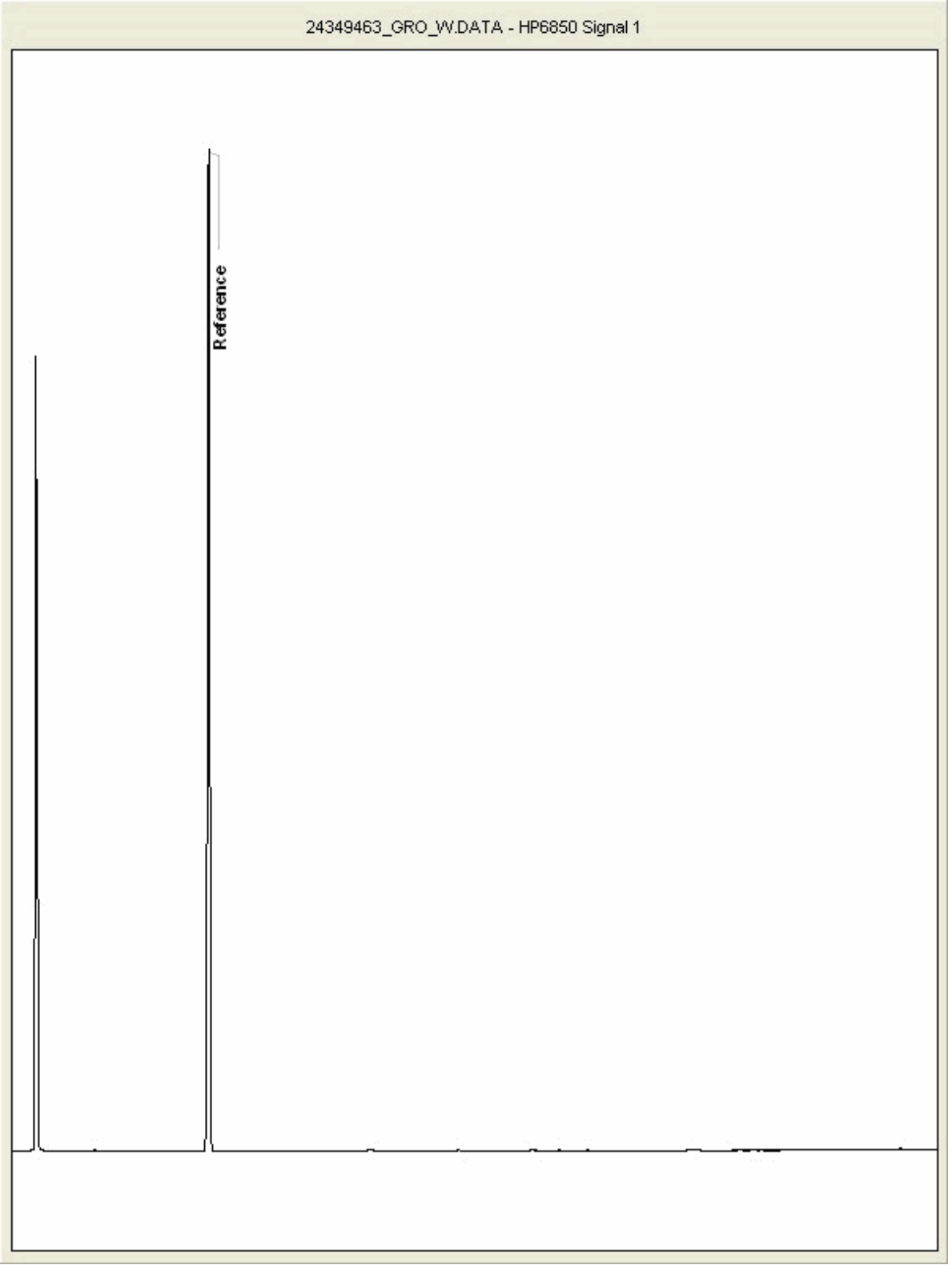
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Validated

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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349463 Depth : 25.00
Sample ID : BH-PTR-33D





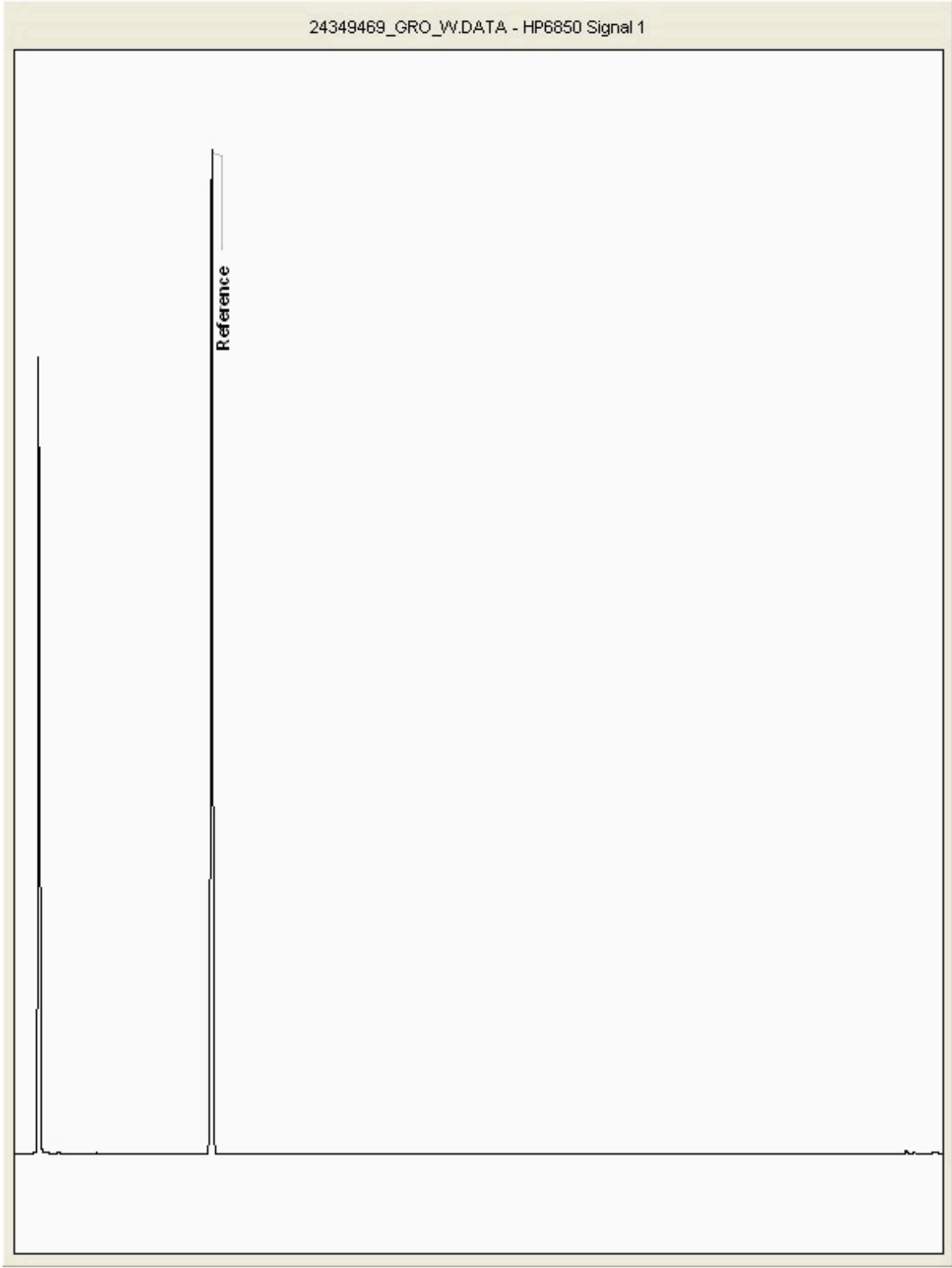
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349469 Depth : 8.00
Sample ID : BH-PTR-31



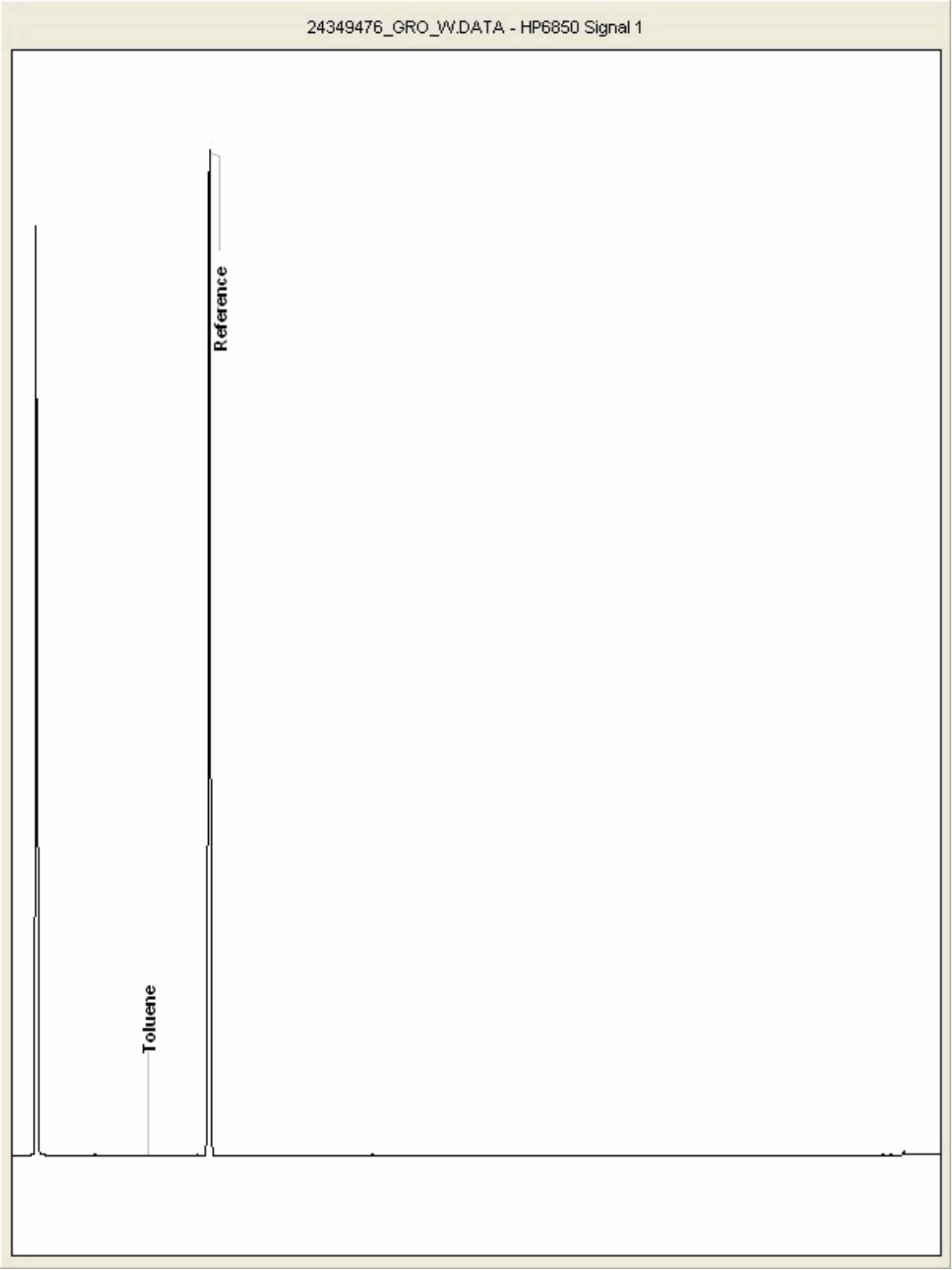
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Validated

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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349476 Depth : 18.50
Sample ID : BH-PTR-30





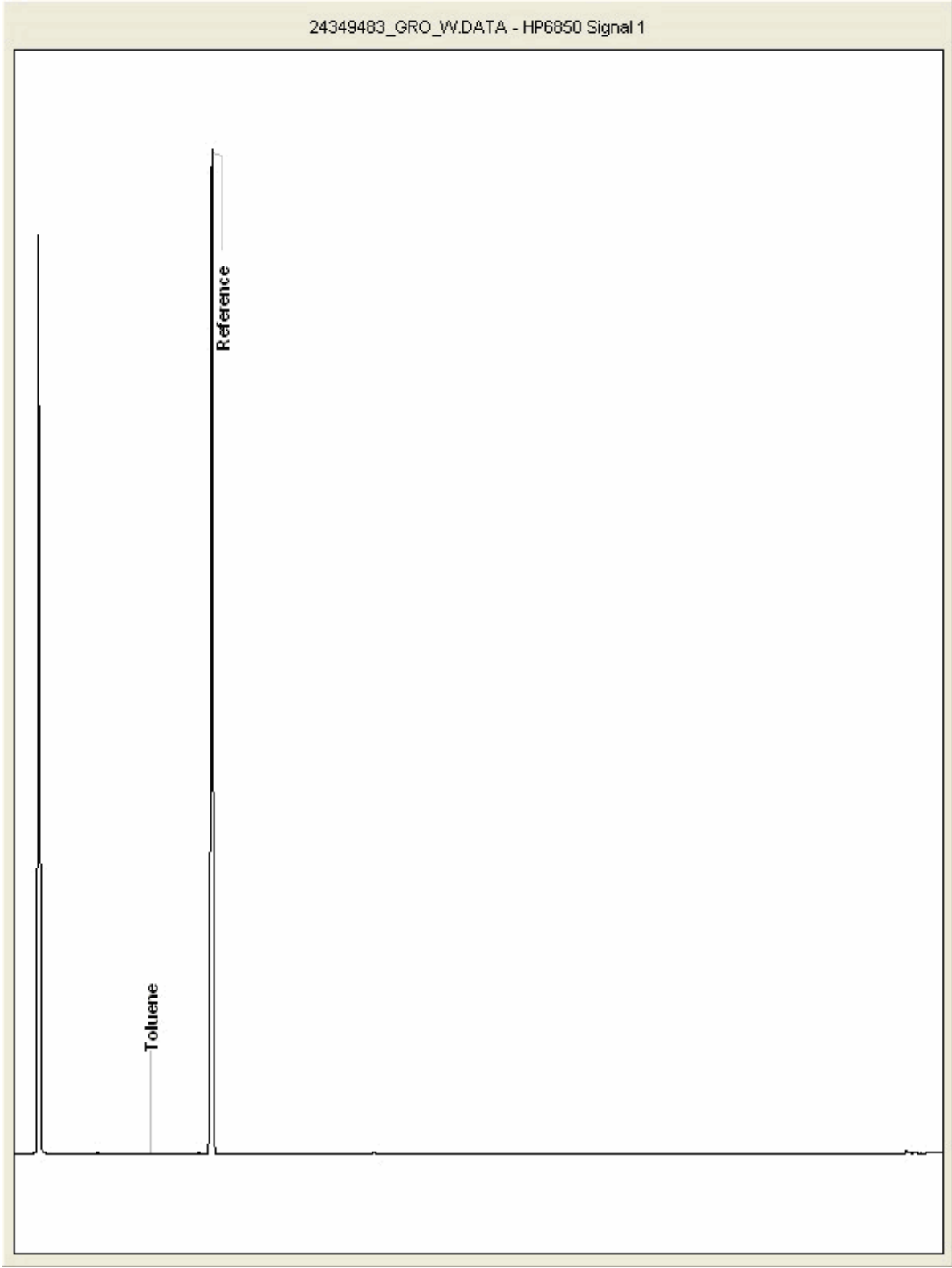
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349483 Depth : 3.00
Sample ID : BH-PTR-33S



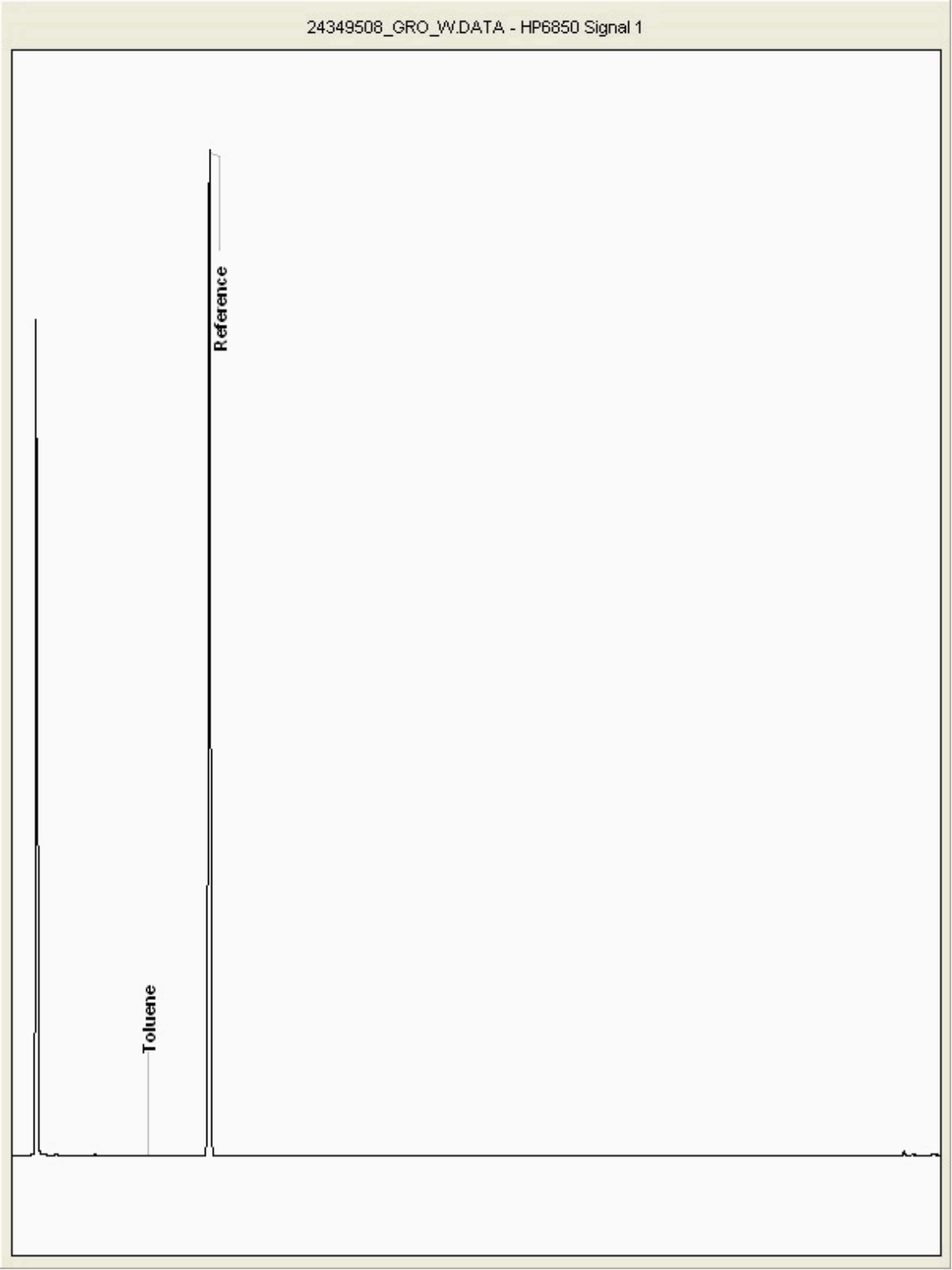
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349508 Depth : 4.50
Sample ID : BH-PTR-27





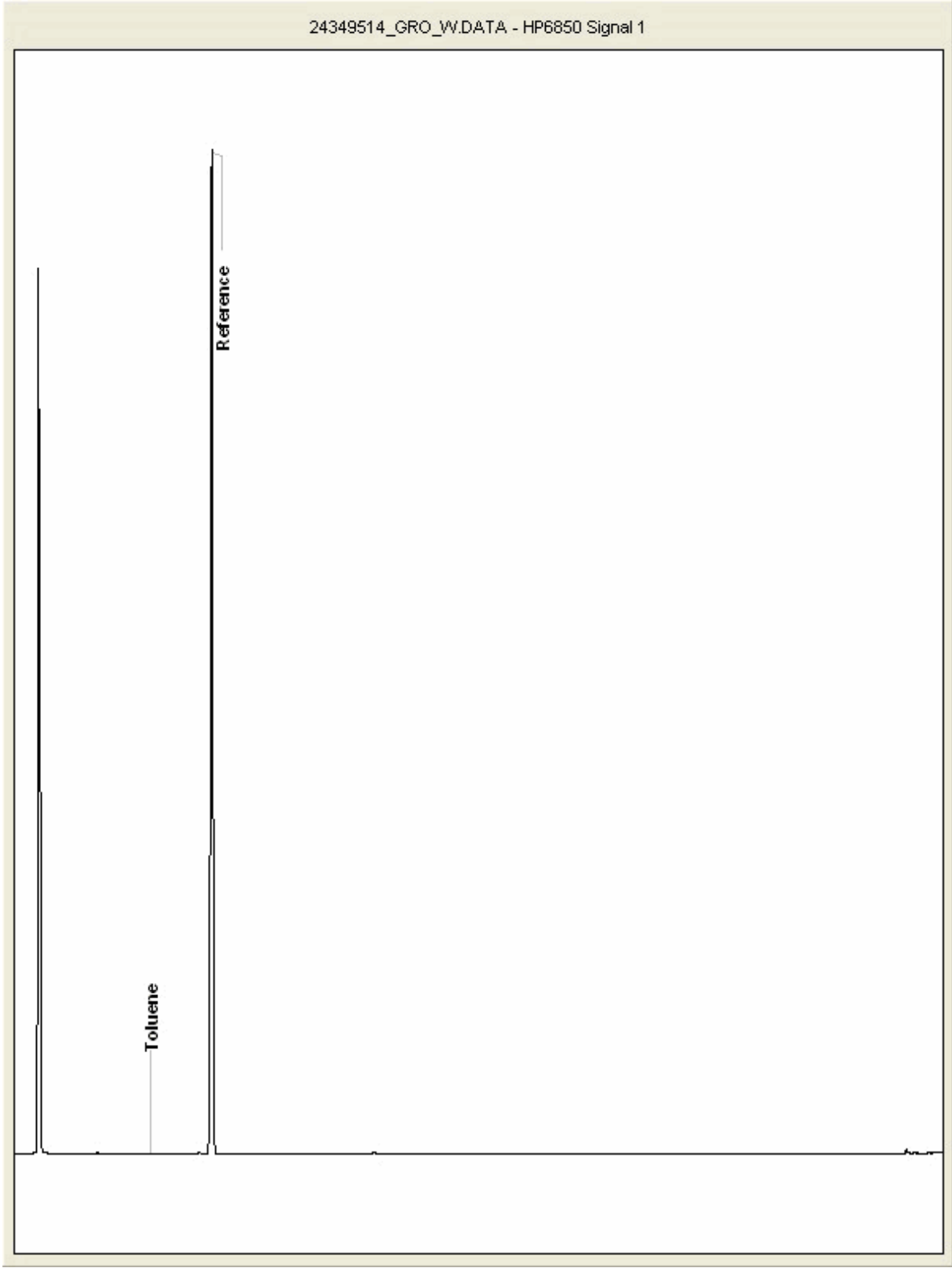
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349514 Depth : 4.40
Sample ID : BH-PTR-18



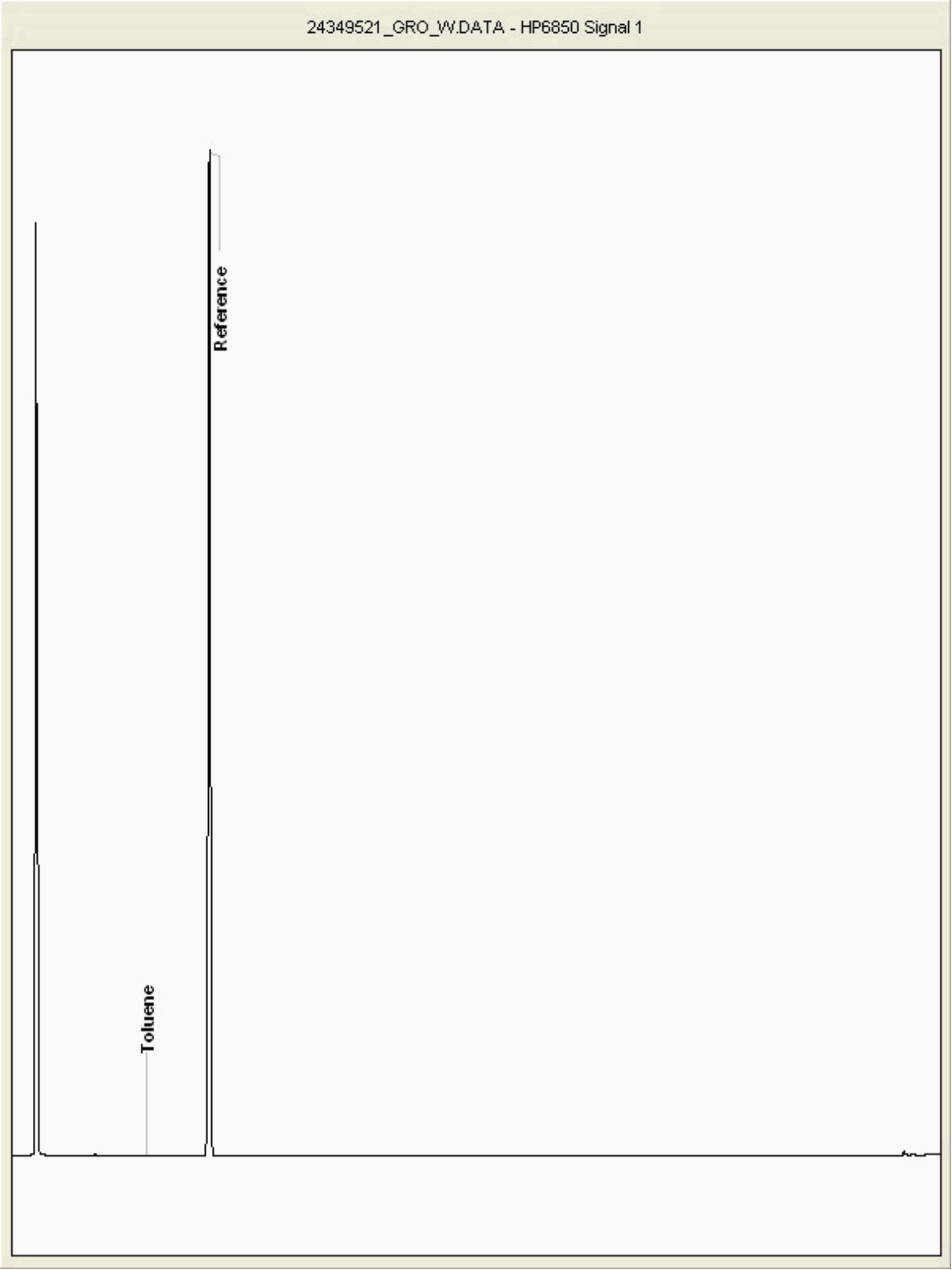
CERTIFICATE OF ANALYSIS

Validated

SDG: 210526-32 Client Reference: B025563 Report Number: 600828
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24349521 Depth : 3.25
Sample ID : BH-PTR-19



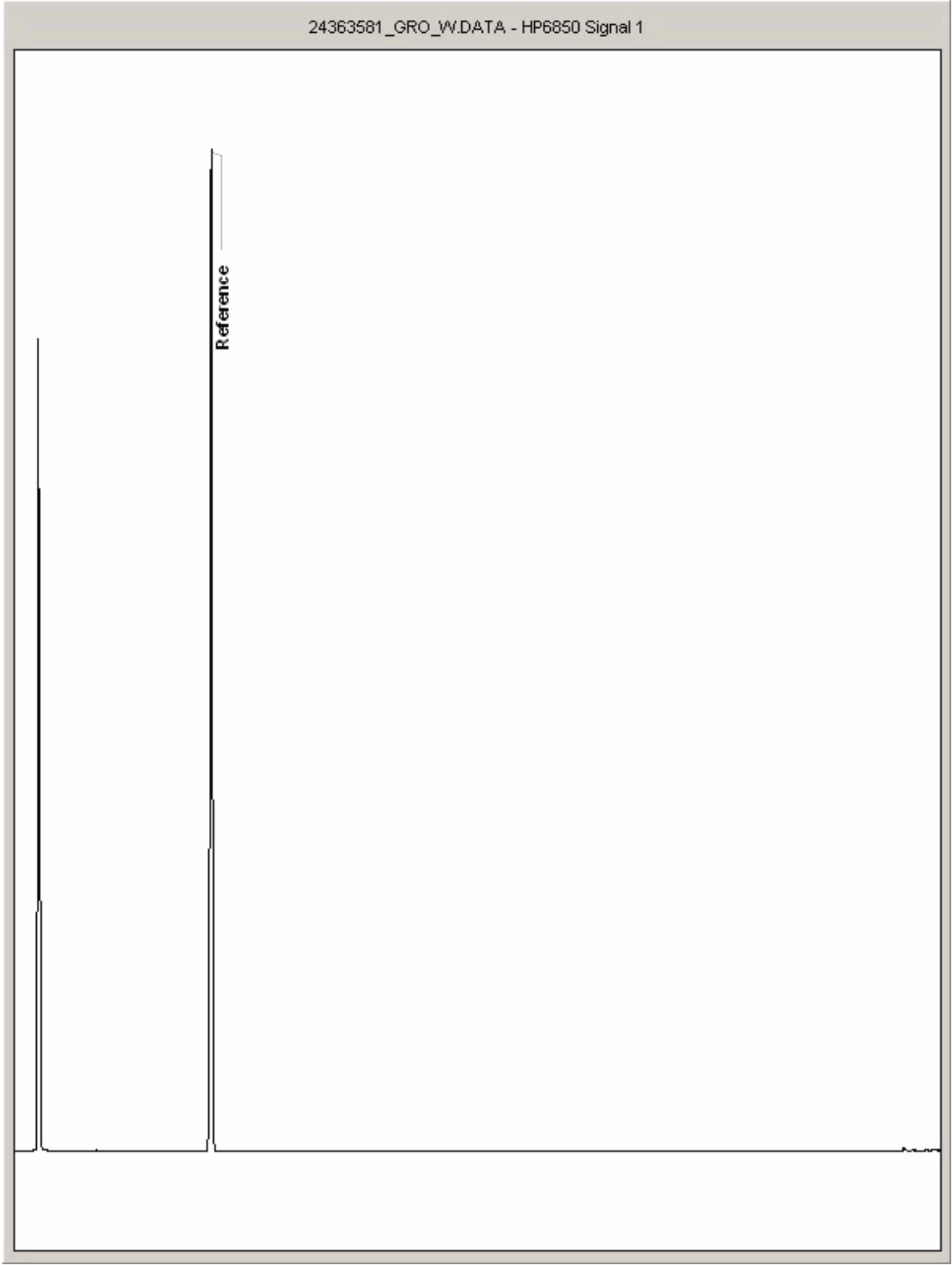
Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 24363581

Sample ID : BH-PTR-21

Depth : 3.00



Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

General

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2017).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Tetra Tech Europe
3 Sovereign Square
Leeds
West Yorkshire
LS1 4ER

Attention: Richard Tonge

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

CERTIFICATE OF ANALYSIS

Date of report Generation: 02 July 2021
Customer: Tetra Tech Europe
Sample Delivery Group (SDG): 210622-69
Your Reference: B025563
Location: Cambridge South East Transport - Phase 2
Report No: 604211

We received 23 samples on Monday June 21, 2021 and 22 of these samples were scheduled for analysis which was completed on Friday July 02, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan
Operations Manager



CERTIFICATE OF ANALYSIS

Validated

SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East Transport - Phase 2 Order Number: 7000964 Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24490160	BH-OBC-06	EW1	7.45	16/06/2021
24490319	BH-PTR-03	EW1	4.00	18/06/2021
24490366	BH-PTR-04	EW1	2.50	18/06/2021
24490302	BH-PTR-07	EW1	12.00	18/06/2021
24490242	BH-PTR-10	EW1	3.00	17/06/2021
24490440	BH-PTR-12	EW1	8.50	17/06/2021
24490424	BH-PTR-14	EW1	7.50	17/06/2021
24490230	BH-PTR-19	EW1	3.50	17/06/2021
24490185	BH-PTR-35	EW1	3.00	17/06/2021
24490173	BH-PTR-36	EW1	2.30	17/06/2021
24490453	BH-PTR-39	EW1	13.00	17/06/2021
24490354	BH-PTR-02D	EW1	7.25	18/06/2021
24490284	BH-PTR-08D	EW1	12.00	17/06/2021
24490199	BH-PTR-33D	EW1	25.00	17/06/2021
24490330	BH-PTR-41D	EW1	7.50	16/06/2021
24490387	BH-PTR-42D	EW1	6.75	16/06/2021
24490398	BH-PTR-43D	EW1	7.00	16/06/2021
24490343	BH-PTR-02S	EW1	1.70	18/06/2021
24490261	BH-PTR-08S	EW1	2.00	17/06/2021
24490220	BH-PTR-33S	EW1	2.75	17/06/2021
24490376	BH-PTR-41S	EW1	2.10	16/06/2021
24490413	BH-PTR-43S	EW1	2.50	16/06/2021
24490465	NO ID	A		

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG:210622-69

Location:Cambridge South East Tra

Client Reference: B025563

Order Number: 7000964

Report Number: 604211

Superseded Report:

<div>Results Legend</div> <div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div> <div>Sample Types -</div> <div>S - Soil/Solid</div> <div>UNS - Unspecified Solid</div> <div>GW - Ground Water</div> <div>SW - Surface Water</div> <div>LE - Land Leachate</div> <div>PL - Prepared Leachate</div> <div>PR - Process Water</div> <div>SA - Saline Water</div> <div>TE - Trade Effluent</div> <div>TS - Treated Sewage</div> <div>US - Untreated Sewage</div> <div>RE - Recreational Water</div> <div>DW - Drinking Water Non-regulatory</div> <div>UNL - Unspecified Liquid</div> <div>SL - Sludge</div> <div>G - Gas</div> <div>OTH - Other</div>	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container													Sample Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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24490440	BH-PTR-12	EW1	8.50	NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															
				Vial (ALE297)	GW															
				NaOH (ALE245)	GW															
				HNO3 Unfiltered (ALE204)	GW															
				HNO3 Filtered (ALE204)	GW															
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				HNO3 Filtered (ALE204)	GW															
				H2SO4 (ALE244)	GW															
				500ml Plastic (ALE208)	GW															
				0.5l glass bottle (ALE227)	GW															



CERTIFICATE OF ANALYSIS

Validated

SDG:

210622-69

Client Reference:

B025563

Report Number:

604211

Location:

Cambridge South East Tra

Order Number:

7000964

Superseded Report:

Results Legend			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
<div><div>X</div>Test</div>			24490440		BH-PTR-12		EW1		8.50		Vial (ALE297)	GW	GW	
<div><div>N</div>No Determination Possible</div>			24490424		BH-PTR-14		EW1		7.50		NaOH (ALE245)	GW	GW	
			24490230		BH-PTR-19		EW1		3.50		HN03 Unfiltered (ALE204)	GW	GW	
											HN03 Filtered (ALE204)	GW	GW	
											H2SO4 (ALE244)	GW	GW	
											500ml Plastic (ALE208)	GW	GW	
											0.5l glass bottle (ALE227)	GW	GW	
											Vial (ALE297)	GW	GW	
											NaOH (ALE245)	GW	GW	
											HN03 Unfiltered (ALE204)	GW	GW	
											HN03 Filtered (ALE204)	GW	GW	
											H2SO4 (ALE244)	GW	GW	
											500ml Plastic (ALE208)	GW	GW	
											0.5l glass bottle (ALE227)	GW	GW	
											Vial (ALE297)	GW	GW	
											NaOH (ALE245)	GW	GW	
											HN03 Unfiltered (ALE204)	GW	GW	
											HN03 Filtered (ALE204)	GW	GW	
											H2SO4 (ALE244)	GW	GW	
											500ml Plastic (ALE208)	GW	GW	
											0.5l glass bottle (ALE227)	GW	GW	
											Vial (ALE297)	GW	GW	
Alkalinity as CaCO3	All	NDPs: 0 Tests: 22												
Ammonium Low	All	NDPs: 0 Tests: 22												
Anions by Kone (w)	All	NDPs: 0 Tests: 22												
Chromium III	All	NDPs: 0 Tests: 22												
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 22												
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 22												
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 22												
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 22												
Fluoride	All	NDPs: 0 Tests: 22												
GRO by GC-FID (W)	All	NDPs: 0 Tests: 22												
Low Level Cyanide (W)	All	NDPs: 0 Tests: 22												
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 22												
Mercury Dissolved	All	NDPs: 0 Tests: 22												
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 22												
pH Value	All	NDPs: 0 Tests: 22												

24490354	BH-PTR-02D	EW1	7.25	HN03 Filtered (ALE204)	GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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CERTIFICATE OF ANALYSIS

Validated

SDG: 210622-69Client Reference: B025563Report Number: 604211

Location: Cambridge South East TraOrder Number: 7000964Superseded Report:

<div>Results Legend</div> <div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div> <div>Sample Types -</div> <div>S - Soil/Solid</div> <div>UNS - Unspecified Solid</div> <div>GW - Ground Water</div> <div>SW - Surface Water</div> <div>LE - Land Leachate</div> <div>PL - Prepared Leachate</div> <div>PR - Process Water</div> <div>SA - Saline Water</div> <div>TE - Trade Effluent</div> <div>TS - Treated Sewage</div> <div>US - Untreated Sewage</div> <div>RE - Recreational Water</div> <div>DW - Drinking Water Non-regulatory</div> <div>UNL - Unspecified Liquid</div> <div>SL - Sludge</div> <div>G - Gas</div> <div>OTH - Other</div>	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container												Sample Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	24490354		BH-PT-R-02D		EW1		7.25		NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297) HNO3 Unfiltered (ALE204)												GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	24490284		BH-PT-R-08D		EW1		12.00		0.5l glass bottle (ALE227) Vial (ALE297) 0.5l glass bottle (ALE227) 500ml Plastic (ALE208) H2SO4 (ALE244) HNO3 Filtered (ALE204) HNO3 Unfiltered (ALE204) NaOH (ALE245)												GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	24490199		BH-PT-R-33D		EW1		25.00		Vial (ALE297) 0.5l glass bottle (ALE227) 500ml Plastic (ALE208) H2SO4 (ALE244) HNO3 Filtered (ALE204) HNO3 Unfiltered (ALE204) NaOH (ALE245)												GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	24490330		BH-PT-R-41D		EW1		7.50		HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245)												GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Alkalinity as CaCO3	All	NDPs: 0 Tests: 22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</



CERTIFICATE OF ANALYSIS

Validated

SDG:210622-69

Client Reference: B025563

Report Number: 604211

Location: Cambridge South East Tra

Order Number: 7000964

Superseded Report:

<div>Results Legend</div> <div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div> <div>Sample Types -</div> <div>S - Soil/Solid</div> <div>UNS - Unspecified Solid</div> <div>GW - Ground Water</div> <div>SW - Surface Water</div> <div>LE - Land Leachate</div> <div>PL - Prepared Leachate</div> <div>PR - Process Water</div> <div>SA - Saline Water</div> <div>TE - Trade Effluent</div> <div>TS - Treated Sewage</div> <div>US - Untreated Sewage</div> <div>RE - Recreational Water</div> <div>DW - Drinking Water Non-regulatory</div> <div>UNL - Unspecified Liquid</div> <div>SL - Sludge</div> <div>G - Gas</div> <div>OTH - Other</div>			Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
			24490354		BH-PT-R-02D		EW1		7.25		NaOH (ALE245) HN03 Unfiltered (ALE204) Vial (ALE297)		GW GW GW	
			24490284		BH-PT-R-08D		EW1		12.00		0.5l glass bottle (ALE227) 500ml Plastic (ALE208) H2SO4 (ALE244) HN03 Filtered (ALE204) HN03 Unfiltered (ALE204) NaOH (ALE245) HN03 Unfiltered (ALE204)		GW GW GW GW GW GW GW	
			24490199		BH-PT-R-33D		EW1		25.00		0.5l glass bottle (ALE227) Vial (ALE297) NaOH (ALE245) HN03 Unfiltered (ALE204) HN03 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)		GW GW GW GW GW GW GW GW	
											HN03 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)		GW GW GW GW GW	
											HN03 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)		GW GW GW GW GW	
											HN03 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)		GW GW GW GW GW	
Phenols by HPLC (W)			All	NDPs: 0 Tests: 22										
Sulphur Dissolved by ICP-OES			All	NDPs: 0 Tests: 22										
Total Dissolved Solids			All	NDPs: 0 Tests: 22										
Total Metals by ICP-MS			All	NDPs: 0 Tests: 22										
TPH CWG (W)			All	NDPs: 0 Tests: 22										
VOC MS (W)			All	NDPs: 0 Tests: 22										

24490343	BH-PT-R-02S	EW1	1.70	500ml Plastic (ALE208)	GW									
24490398	BH-PT-R-43D	EW1	7.00	0.5l glass bottle (ALE227)	GW									
24490387	BH-PT-R-42D	EW1	6.75	Vial (ALE297)	GW									
24490330	BH-PT-R-41D	EW1	7.50	NaOH (ALE245)	GW									
				HN03 Unfiltered (ALE204)	GW									
				HN03 Filtered (ALE204)	GW									
				H2SO4 (ALE244)	GW									
				500ml Plastic (ALE208)	GW									
				0.5l glass bottle (ALE227)	GW									
				Vial (ALE297)	GW									
				NaOH (ALE245)	GW									
				HN03 Unfiltered (ALE204)	GW									
				HN03 Filtered (ALE204)	GW									
				H2SO4 (ALE244)	GW									
				500ml Plastic (ALE208)	GW									
				0.5l glass bottle (ALE227)	GW									
				Vial (ALE297)	GW									
				NaOH (ALE245)	GW									
				HN03 Unfiltered (ALE204)	GW									

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend					
<div>X</div> Test					
<div>N</div> No Determination Possible					
Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other					
Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
24490376	BH-PTR-41S	EW1	2.10	HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) NaOH (ALE245)	GW
24490220	BH-PTR-33S	EW1	2.75	HNO3 Unfiltered (ALE204) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) NaOH (ALE245)	GW
24490261	BH-PTR-08S	EW1	2.00	Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227) Vial (ALE297)	GW
24490343	BH-PTR-02S	EW1	1.70	Vial (ALE297) NaOH (ALE245) HNO3 Unfiltered (ALE204) HNO3 Filtered (ALE204) H2SO4 (ALE244) 500ml Plastic (ALE208) 0.5l glass bottle (ALE227)	GW
Alkalinity as CaCO3	All	NDPs: 0 Tests: 22			
Ammonium Low	All	NDPs: 0 Tests: 22			
Anions by Kone (w)	All	NDPs: 0 Tests: 22			
Chromium III	All	NDPs: 0 Tests: 22			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 22			
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 22			
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 22			
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 22			
Fluoride	All	NDPs: 0 Tests: 22			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 22			
Low Level Cyanide (W)	All	NDPs: 0 Tests: 22			
Low Level Hexavalent Chromium (w)	All	NDPs: 0 Tests: 22			
Mercury Dissolved	All	NDPs: 0 Tests: 22			
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 22			
pH Value	All	NDPs: 0 Tests: 22			

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CERTIFICATE OF ANALYSIS

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SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

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24490413	BH-PTIR43S	EW1	2.50	Vial (ALE297)	GW						X
				NaOH (ALE245)	GW						
				HNO3 Unfiltered (ALE204)	GW						
				HNO3 Filtered (ALE204)	GW				X		
				500ml Plastic (ALE208)	GW						
				0.5l glass bottle (ALE227)	GW		X				
24490376	BH-PTIR41S	EW1	2.10	NaOH (ALE245)	GW		X			X	

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Customer Sample Ref.	BH-OBC-06	BH-PTR-03	BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		7.45	4.00	2.50	12.00	3.00	8.50
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			16/06/2021	18/06/2021	18/06/2021	18/06/2021	17/06/2021	17/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69
+	Subcontracted - refer to subcontractor report for accreditation status.			24490160	24490319	24490366	24490302	24490242	24490440
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			EW1	EW1	EW1	EW1	EW1	EW1
(F)	Trigger breach confirmed								
1-4+5/6	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	432	277	371	1340	260	262	
Carbon, Organic (diss.filt)	<3 mg/l	TM090	3.04	4.87	4.34	<3	3.42	<3	
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.013 #	0.11 #	0.053 #	0.079 #	<0.01 #	0.011 #	
Fluoride	<0.5 mg/l	TM104	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	<0.5 #	
Dissolved solids, Total (meter)	<5 mg/l	TM123	625 #	819 #	576 #	351 #	619 #	726 #	
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	<0.003 #	
Antimony (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5 #	<0.5 #	4.96 #	1.99 #	<0.5 #	<0.5 #	
Barium (diss.filt)	<0.2 µg/l	TM152	40.3 #	65.5 #	24.4 #	63.4 #	62.6 #	71.3 #	
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	<0.1 #	
Boron (diss.filt)	<10 µg/l	TM152	20.1 #	24.4 #	21.2 #	31.7 #	51.3 #	28.4 #	
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	<0.08 #	
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Copper (diss.filt)	<0.3 µg/l	TM152	0.546 #	1.55 #	0.729 #	0.423 #	5.53 #	3.79 #	
Lead (diss.filt)	<0.2 µg/l	TM152	<0.2 #	<0.2 #	<0.2 #	0.304 #	<0.2 #	<0.2 #	
Manganese (diss.filt)	<3 µg/l	TM152	<3 #	65.5 #	13.8 #	14.1 #	<3 #	<3 #	
Molybdenum (diss.filt)	<3 µg/l	TM152	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Nickel (diss.filt)	<0.4 µg/l	TM152	<0.4 #	3.62 #	1.6 #	0.584 #	2.72 #	1.59 #	
Selenium (diss.filt)	<1 µg/l	TM152	<1 #	2.44 #	2.8 #	<1 #	3.62 #	1.47 #	
Vanadium (diss.filt)	<1 µg/l	TM152	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Zinc (diss.filt)	<1 µg/l	TM152	1.44 #	6.54 #	4.03 #	3.07 #	9.81 #	7.58 #	
Sodium (Dis.Filt)	<0.076 mg/l	TM152	18.3 #	33.5 #	145 #	16.5 #	21.2 #	23.4 #	
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	2.96 #	11.7 #	3.77 #	10 #	4.66 #	5.46 #	
Calcium (Dis.Filt)	<0.2 mg/l	TM152	155 #	211 #	28.2 #	71.6 #	160 #	173 #	
Iron (Dis.Filt)	<0.019 mg/l	TM152	<0.019 #	0.024 #	<0.019 #	0.0713 #	<0.019 #	<0.019 #	
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	868 #	671 #	176 #	1980 #	453 #	640 #	
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	
Sulphate	<2 mg/l	TM184	55.4 #	353 #	99.5 #	37 #	88.1 #	130 #	
Chloride	<2 mg/l	TM184	59 #	47.7 #	21.4 #	16.4 #	57 #	87 #	
Nitrate as NO3	<0.3 mg/l	TM184	116 #	11.3 #	0.767 #	0.447 #	52.9 #	72.7 #	
Sulphur Dissolved	<1 mg/l	TM228	16.6 #	103 #	29.5 #	11.1 #	26.2 #	39.8 #	
pH	<1 pH Units	TM256	7.58 #	7.43 #	8.49 #	7.75 #	7.39 #	7.36 #	



CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible]

		Validated								Validated					
SDG: 210622-69		Client Reference: B025563		Report Number: 604211				SDG: 210622-69		Client Reference: B025563		Report Number: 604211			
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:				Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:			
Results Legend		Customer Sample Ref.		BH-PTR-14		BH-PTR-19		BH-PTR-35		BH-PTR-36		BH-PTR-39		BH-PTR-02D	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	7.50 Ground Water (GW) 17/06/2021	3.50 Ground Water (GW) 17/06/2021	3.00 Ground Water (GW) 17/06/2021	2.30 Ground Water (GW) 17/06/2021	13.00 Ground Water (GW) 17/06/2021	7.25 Ground Water (GW) 18/06/2021	#	#	#	#	#	#	#
M	mCERTS accredited.														
aq	Aqueous / settled sample.														
diss.filt	Dissolved / filtered sample.														
tot.unfilt	Total / unfiltered sample.														
*	Subcontracted - refer to subcontractor report for accreditation status.														
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021
(F)	Trigger breach confirmed	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69	210622-69
1-44@	Sample deviation (see appendix)	24490424	24490230	24490185	24490173	24490453	24490354	24490354	EW1	EW1	EW1	EW1	EW1	EW1	EW1
Component		LOD/Units	Method	BH-PTR-14		BH-PTR-19		BH-PTR-35		BH-PTR-36		BH-PTR-39		BH-PTR-02D	
Alkalinity, Bicarbonate as CaCO3		<2 mg/l	TM043	228		504		3520		834		588		599	
Carbon, Organic (diss.filt)		<3 mg/l	TM090	<3		4.23		4.11		7.36		<3		6.29	
Ammoniacal Nitrogen as N (low level)		<0.01 mg/l	TM099	<0.01		0.013		0.2		0.191		<0.01		0.027	
Fluoride		<0.5 mg/l	TM104	<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
Dissolved solids, Total (meter)		<5 mg/l	TM123	575		875		609		982		424		757	
Chromium, Trivalent (Low)		<0.003 mg/l	TM152	0.0037		<0.003		<0.003		<0.003		<0.003		<0.003	
Antimony (diss.filt)		<1 µg/l	TM152	<1		<1		<1		<1		<1		<1	
Arsenic (diss.filt)		<0.5 µg/l	TM152	<0.5		<0.5		0.703		<0.5		<0.5		<0.5	
Barium (diss.filt)		<0.2 µg/l	TM152	66.3		35.8		62.5		120		42.7		95.2	
Beryllium (diss.filt)		<0.1 µg/l	TM152	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Boron (diss.filt)		<10 µg/l	TM152	27		52.4		36.4		62.7		24.5		81.6	
Cadmium (diss.filt)		<0.08 µg/l	TM152	<0.08		<0.08		<0.08		<0.08		<0.08		<0.08	
Chromium (diss.filt)		<1 µg/l	TM152	3.7		<1		1.78		<1		2.66		<1	
Copper (diss.filt)		<0.3 µg/l	TM152	4.42		2.68		13.7		3.46		1.17		2.52	
Lead (diss.filt)		<0.2 µg/l	TM152	<0.2		<0.2		0.309		<0.2		<0.2		0.691	
Manganese (diss.filt)		<3 µg/l	TM152	<3		3.15		21.1		50.3		<3		49.2	
Molybdenum (diss.filt)		<3 µg/l	TM152	<3		<3		3.17		<3		<3		<3	
Nickel (diss.filt)		<0.4 µg/l	TM152	1.13		0.82		1.8		3.39		0.491		5.66	
Selenium (diss.filt)		<1 µg/l	TM152	<1		1.1		6.74		2.92		1.17		2.19	
Vanadium (diss.filt)		<1 µg/l	TM152	<1		<1		<1		<1		<1		<1	
Zinc (diss.filt)		<1 µg/l	TM152	5.69		16.7		44.6		22.4		3.56		47.2	
Sodium (Dis.Filt)		<0.076 mg/l	TM152	17.5		14		22.5		55.8		8.85		27	
Magnesium (Dis.Filt)		<0.036 mg/l	TM152	5.36		4.26		4.3		3.47		4.1		15.2	
Calcium (Dis.Filt)		<0.2 mg/l	TM152	138		246		157		244		104		201	
Iron (Dis.Filt)		<0.019 mg/l	TM152	<0.019		<0.019		<0.019		<0.019		<0.019		0.112	
Hardness, Total as CaCO3 unfiltered		<0.35 mg/l	TM152	423		996		4370		1680		768		1170	
Mercury (diss.filt)		<0.01 µg/l	TM183	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Sulphate		<2 mg/l	TM184	70.3		76.4		59.5		183		15.3		225	
Chloride		<2 mg/l	TM184	50		111		45.8		108		20.4		53.5	
Nitrate as NO3		<0.3 mg/l	TM184	69.6		128		96.3		33		41.9		17.3	
Sulphur Dissolved		<1 mg/l	TM228	21.4		21.8		17.2		54.7		4.85		64.8	
pH		<1 pH Units	TM256	7.42		7.37		7.49		7.47		7.42		7.33	

		Validated												Validated																								
SDG: 210622-69		Client Reference: B025563		Report Number: 604211				SDG: 210622-69		Client Reference: B025563		Report Number: 604211				SDG: 210622-69		Client Reference: B025563		Report Number: 604211																		
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:				Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:				Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:																		
Results Legend		Customer Sample Ref.		BH-PTR-08D		BH-PTR-33D		BH-PTR-41D		BH-PTR-42D		BH-PTR-43D		BH-PTR-02S		Results Legend		Customer Sample Ref.		BH-PTR-08D		BH-PTR-33D		BH-PTR-41D		BH-PTR-42D		BH-PTR-43D		BH-PTR-02S								
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		12.00	25.00	7.50	6.75	7.00	1.70	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		12.00	25.00	7.50	6.75	7.00	1.70	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
*	Subcontracted - refer to subcontractor report for accreditation status.	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
*	Subcontracted - refer to subcontractor report for accreditation status.	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
*	Subcontracted - refer to subcontractor report for accreditation status.	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
(F)	Trigger breach confirmed	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	SDG Ref		24490284	24490199	24490330	24490387	24490398	24490343	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
1-44@	Sample deviation (see appendix)	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
1-44@	Sample deviation (see appendix)	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	SDG Ref		EW1	EW1	EW1	EW1	EW1	EW1	#	mCERTS accredited.	Aqueous / settled sample.	Dissolved / filtered sample.	Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Trigger breach confirmed	Sample deviation (see appendix)	#	M	aq	diss.filt	tot.unfilt	*	"	(F)	1-44@			
M	mCERTS accredited.			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)	Ground Water (GW)																			Ground Water (GW)	Ground Water (GW)	Ground Water (GW)
aq	Aqueous / settled sample.			17/06/2021	17/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021			16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021																			16/06/2021	16/06/2021	16/06/2021
diss.filt	Dissolved / filtered sample.			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021			21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021	21/06/2021																			21/06/2021	21/06/2021	21/06/2021
tot.unfilt	Total / unfiltered sample.			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69			210622-69	210622-69	210622-69	210622-69	210622-69	210622-69																			210622-69	210622-69	210622-69
(F)	Trigger breach confirmed	SDG Ref		EW1																																		

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

Results Legend			Customer Sample Ref.	BH-PTR-08S	BH-PTR-33S	BH-PTR-41S	BH-PTR-43S		
# M aq diss.filt tot.unfilt + "	ISO17025 accredited. mCERTS accredited. Aqueous / filtered sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) 1-4#6@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490261 EW1	2.75 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490220 EW1	2.10 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490376 EW1	2.50 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490413 EW1			
Component	LOD/Units	Method							
Alkalinity, Bicarbonate as CaCO3	<2 mg/l	TM043	310	733	1090	565			
Carbon, Organic (diss.filt)	<3 mg/l	TM090	4.19	<3	6.86	17.3			
Ammoniacal Nitrogen as N (low level)	<0.01 mg/l	TM099	0.049 #	<0.01 2 #	0.055 #	0.425 2 #			
Fluoride	<0.5 mg/l	TM104	<0.5 #	<0.5 #	<0.5 #	<0.5 #			
Dissolved solids, Total (meter)	<5 mg/l	TM123	582 #	420 #	984 #	1610 #			
Chromium, Trivalent (Low)	<0.003 mg/l	TM152	<0.003	<0.003	<0.003	<0.003			
Antimony (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #	<1 #	<1 #			
Arsenic (diss.filt)	<0.5 µg/l	TM152	<0.5 #	<0.5 2 #	0.705 #	1.34 #			
Barium (diss.filt)	<0.2 µg/l	TM152	67.5 #	43.4 2 #	73.4 #	118 #			
Beryllium (diss.filt)	<0.1 µg/l	TM152	<0.1 #	<0.1 2 #	<0.1 #	<0.1 #			
Boron (diss.filt)	<10 µg/l	TM152	80.4 #	15.6 2 #	73.1 #	554 #			
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	<0.08 2 #	<0.08 #	<0.08 #			
Chromium (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #	<1 #	<1 #			
Copper (diss.filt)	<0.3 µg/l	TM152	4.19 #	0.306 2 #	0.537 #	2.73 #			
Lead (diss.filt)	<0.2 µg/l	TM152	0.221 #	<0.2 2 #	<0.2 #	<0.2 #			
Manganese (diss.filt)	<3 µg/l	TM152	12.8 #	<3 2 #	117 #	424 #			
Molybdenum (diss.filt)	<3 µg/l	TM152	5.6 #	<3 2 #	<3 #	3.3 #			
Nickel (diss.filt)	<0.4 µg/l	TM152	3.22 #	0.779 2 #	2.72 #	10.3 #			
Selenium (diss.filt)	<1 µg/l	TM152	10.4 #	<1 2 #	2.17 #	1.28 #			
Vanadium (diss.filt)	<1 µg/l	TM152	<1 #	<1 2 #	<1 #	<1 #			
Zinc (diss.filt)	<1 µg/l	TM152	9.69 #	1.79 2 #	9.54 #	14.2 #			
Sodium (Dis.Filt)	<0.076 mg/l	TM152	69.8 #	9.43 2 #	180 #	183 #			
Magnesium (Dis.Filt)	<0.036 mg/l	TM152	6.4 #	4.81 2 #	7.05 #	16.7 #			
Calcium (Dis.Filt)	<0.2 mg/l	TM152	105 #	107 2 #	145 #	318 #			
Iron (Dis.Filt)	<0.019 mg/l	TM152	<0.019 #	<0.019 2 #	<0.019 #	0.225 #			
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM152	321	1370	2270	2650			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 2 #	<0.01 #	<0.01 #			
Sulphate	<2 mg/l	TM184	81.8 #	19.2 #	237 #	895 #			
Chloride	<2 mg/l	TM184	36.7 #	20.6 #	26.5 #	51.6 #			
Nitrate as NO3	<0.3 mg/l	TM184	19.5	36.6	0.361	0.55			
Sulphur Dissolved	<1 mg/l	TM228	24.5	6.14	72	280			
pH	<1 pH Units	TM256	7.68 #	7.5 #	7.32 #	7.5 #			



CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

PAH Spec MS - Aqueous (W)

[illegible]

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		Validated													
SDG: 210622-69 Location: Cambridge South East Tra		Client Reference: B025563 Order Number: 7000964		Report Number: 604211 Superseded Report:											
VOC MS (W)		VOC MS (W)													
<div>Results Legend</div> <div># ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-44@ Sample deviation (see appendix)</div>		<div>Customer Sample Ref.</div> <div>Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference</div>		<div>BH-OBC-06</div> <div>7.45 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490160 EW1</div>		<div>BH-PTR-03</div> <div>4.00 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490319 EW1</div>		<div>BH-PTR-04</div> <div>2.50 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490366 EW1</div>		<div>BH-PTR-07</div> <div>12.00 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490302 EW1</div>		<div>BH-PTR-10</div> <div>3.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490242 EW1</div>		<div>BH-PTR-12</div> <div>8.50 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490440 EW1</div>	
<div>Component</div> <div>LOD/Units</div> <div>Method</div>		<div>Component</div> <div>LOD/Units</div> <div>Method</div>		<div>BH-OBC-06</div> <div>7.45 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490160 EW1</div>		<div>BH-PTR-03</div> <div>4.00 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490319 EW1</div>		<div>BH-PTR-04</div> <div>2.50 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490366 EW1</div>		<div>BH-PTR-07</div> <div>12.00 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490302 EW1</div>		<div>BH-PTR-10</div> <div>3.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490242 EW1</div>		<div>BH-PTR-12</div> <div>8.50 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490440 EW1</div>	
Dibromofluoromethane**		111		120		112		112		118		115			
Toluene-d8**		98.3		96.5		98.5		99		96.8		99.7			
4-Bromofluorobenzene**		102		96.2		99.4		102		96.1		99.8			
Dichlorodifluoromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Chloromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Vinyl chloride		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Bromomethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Chloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Trichlorofluoromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1-Dichloroethene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Carbon disulphide		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Dichloromethane		<3 µg/l		<3 #		<3 #		<3 #		<3 #		<3 #			
Methyl tertiary butyl ether (MTBE)		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
trans-1,2-Dichloroethene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1-Dichloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
cis-1,2-Dichloroethene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
2,2-Dichloropropane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Bromochloromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Chloroform		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1,1-Trichloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1-Dichloropropene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Carbontetrachloride		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2-Dichloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Benzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Trichloroethene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2-Dichloropropane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Dibromomethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Bromodichloromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
cis-1,3-Dichloropropene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Toluene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
trans-1,3-Dichloropropene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1,2-Trichloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,3-Dichloropropane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Tetrachloroethene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Dibromochloromethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2-Dibromoethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Chlorobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1,1,2-Tetrachloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Ethylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
m,p-Xylene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
o-Xylene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Styrene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Bromoform		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Isopropylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,1,2,2-Tetrachloroethane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2,3-Trichloropropane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Bromobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Propylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
2-Chlorotoluene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,3,5-Trimethylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
4-Chlorotoluene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
tert-Butylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2,4-Trimethylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
sec-Butylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
4-iso-Propyltoluene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,3-Dichlorobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,4-Dichlorobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
n-Butylbenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2-Dichlorobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2-Dibromo-3-chloropropane		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
1,2,4-Trichlorobenzene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Hexachlorobutadiene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
tert-Amyl methyl ether (TAME)		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			
Naphthalene		<1 µg/l		<1 #		<1 #		<1 #		<1 #		<1 #			

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend			Customer Sample Ref.	BH-PTR-14	BH-PTR-19	BH-PTR-35	BH-PTR-36	BH-PTR-39	BH-PTR-020
#	ISO17025 accredited.			7.50	3.50	3.00	2.30	13.00	7.25
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
dis.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F) Trigger breach confirmed									
1-4→5@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	114	113	118	119	111	113	
Toluene-d8**	%	TM208	98.9	99.3	96.6	96.8	99.4	99.7	
4-Bromofluorobenzene**	%	TM208	101	100	96.6	95.5	101	102	
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dichloromethane	<3 µg/l	TM208	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
2,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Chloroform	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Benzene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Trichloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Dibromomethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
Toluene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #	

		Validated														
SDG: 210622-69		Client Reference: B025563		Report Number: 604211												
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:												
VOC MS (W)																
<div>Results Legend</div> <div># ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1.44g Sample deviation (see appendix)</div>			Customer Sample Ref.		BH-PTR-14		BH-PTR-19		BH-PTR-35		BH-PTR-36		BH-PTR-39		BH-PTR-02D	
Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					7.50 Ground Water (GW) 17/06/2021		3.50 Ground Water (GW) 17/06/2021		3.00 Ground Water (GW) 17/06/2021		2.30 Ground Water (GW) 17/06/2021		13.00 Ground Water (GW) 17/06/2021		7.25 Ground Water (GW) 18/06/2021	
Component			LOD/Units		Method											
1,3-Dichloropropane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Tetrachloroethene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Dibromochloromethane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2-Dibromoethane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Chlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,1,1,2-Tetrachloroethane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Ethylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
m,p-Xylene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
o-Xylene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Styrene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Bromoform			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Isopropylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,1,2,2-Tetrachloroethane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2,3-Trichloropropane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Bromobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Propylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
2-Chlorotoluene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,3,5-Trimethylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
4-Chlorotoluene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
tert-Butylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2,4-Trimethylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
sec-Butylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
4-iso-Propyltoluene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,3-Dichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,4-Dichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
n-Butylbenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2-Dichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2-Dibromo-3-chloropropane			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,2,4-Trichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Hexachlorobutadiene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
tert-Amyl methyl ether (TAME)			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
Naphthalene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
11:49:25 02/07/2021		11:49:25 02/07/2021														
Page 39 of 123		Page 40 of 123														

		Validated														
SDG: 210622-69		Client Reference: B025563		Report Number: 604211												
Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:												
VOC MS (W)																
<div>Results Legend</div> <div># ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1.44g Sample deviation (see appendix)</div>			Customer Sample Ref.		BH-PTR-14		BH-PTR-19		BH-PTR-35		BH-PTR-36		BH-PTR-39		BH-PTR-02D	
Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					7.50 Ground Water (GW) 17/06/2021		3.50 Ground Water (GW) 17/06/2021		3.00 Ground Water (GW) 17/06/2021		2.30 Ground Water (GW) 17/06/2021		13.00 Ground Water (GW) 17/06/2021		7.25 Ground Water (GW) 18/06/2021	
Component			LOD/Units		Method											
1,2,3-Trichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	
1,3,5-Trichlorobenzene			<1 µg/l		TM208		<1 #		<1 #		<1 #		<1 #		<1 #	

		Validated													
SDG: 210622-69 Location: Cambridge South East Tra		Client Reference: B025563 Order Number: 7000964		Report Number: 604211 Superseded Report:											
VOC MS (W)		VOC MS (W)													
<div>Results Legend</div> <div># ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed 1-44@ Sample deviation (see appendix)</div>		<div>Customer Sample Ref.</div> <div>Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference</div>		<div>BH-PTR-08D</div> <div>12.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490284 EW1</div>		<div>BH-PTR-33D</div> <div>25.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490199 EW1</div>		<div>BH-PTR-41D</div> <div>7.50 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490330 EW1</div>		<div>BH-PTR-42D</div> <div>6.75 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490387 EW1</div>		<div>BH-PTR-43D</div> <div>7.00 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490398 EW1</div>		<div>BH-PTR-02S</div> <div>1.70 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490343 EW1</div>	
<div>Component</div> <div>LOD/Units</div> <div>Method</div>		<div>Component</div> <div>LOD/Units</div> <div>Method</div>		<div>BH-PTR-08D</div> <div>12.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490284 EW1</div>		<div>BH-PTR-33D</div> <div>25.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490199 EW1</div>		<div>BH-PTR-41D</div> <div>7.50 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490330 EW1</div>		<div>BH-PTR-42D</div> <div>6.75 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490387 EW1</div>		<div>BH-PTR-43D</div> <div>7.00 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490398 EW1</div>		<div>BH-PTR-02S</div> <div>1.70 Ground Water (GW) 18/06/2021 21/06/2021 210622-69 24490343 EW1</div>	
Dibromofluoromethane**		124		113		113		101		110		108			
Toluene-d8**		96.8		99.2		98.7		98		98.8		99			
4-Bromofluorobenzene**		97.2		100		101		98.4		100		102			
Dichlorodifluoromethane		<1		<1		<1		<1		<1		<1			
Chloromethane		<1		<1		<1		<1		<1		<1			
Vinyl chloride		<1		<1		<1		<1		<1		<1			
Bromomethane		<1		<1		<1		<1		<1		<1			
Chloroethane		<1		<1		<1		<1		<1		<1			
Trichlorofluoromethane		<1		<1		<1		<1		<1		<1			
1,1-Dichloroethene		<1		<1		<1		<1		<1		<1			
Carbon disulphide		<1		<1		<1		<1		<1		<1			
Dichloromethane		<3		<3		<3		<3		<3		<3			
Methyl tertiary butyl ether (MTBE)		<1		<1		<1		<1		<1		<1			
trans-1,2-Dichloroethene		<1		<1		<1		<1		<1		<1			
1,1-Dichloroethane		<1		<1		<1		<1		<1		<1			
cis-1,2-Dichloroethene		<1		<1		<1		<1		<1		<1			
2,2-Dichloropropane		<1		<1		<1		<1		<1		<1			
Bromochloromethane		<1		<1		<1		<1		<1		<1			
Chloroform		<1		<1		<1		<1		<1		<1			
1,1,1-Trichloroethane		<1		<1		<1		<1		<1		<1			
1,1-Dichloropropene		<1		<1		<1		<1		<1		<1			
Carbontetrachloride		<1		<1		<1		<1		<1		<1			
1,2-Dichloroethane		<1		<1		<1		<1		<1		<1			
Benzene		<1		<1		<1		<1		<1		<1			
Trichloroethene		<1		<1		<1		<1		<1		<1			
1,2-Dichloropropane		<1		<1		<1		<1		<1		<1			
Dibromomethane		<1		<1		<1		<1		<1		<1			
Bromodichloromethane		<1		<1		<1		<1		<1		<1			
cis-1,3-Dichloropropene		<1		<1		<1		<1		<1		<1			
Toluene		<1		<1		<1		<1		<1		<1			
trans-1,3-Dichloropropene		<1		<1		<1		<1		<1		<1			
1,1,2-Trichloroethane		<1		<1		<1		<1		<1		<1			
1,3-Dichloropropane		<1		<1		<1		<1		<1		<1			
Tetrachloroethene		<1		<1		<1		<1		<1		<1			
Dibromochloromethane		<1		<1		<1		<1		<1		<1			
1,2-Dibromoethane		<1		<1		<1		<1		<1		<1			
Chlorobenzene		<1		<1		<1		<1		<1		<1			
1,1,1,2-Tetrachloroethane		<1		<1		<1		<1		<1		<1			
Ethylbenzene		<1		<1		<1		<1		<1		<1			
m,p-Xylene		<1		<1		<1		<1		<1		<1			
o-Xylene		<1		<1		<1		<1		<1		<1			
Styrene		<1		<1		<1		<1		<1		<1			
Bromoform		<1		<1		<1		<1		<1		<1			
Isopropylbenzene		<1		<1		<1		<1		<1		<1			
1,1,2,2-Tetrachloroethane		<1		<1		<1		<1		<1		<1			
1,2,3-Trichloropropane		<1		<1		<1		<1		<1		<1			
Bromobenzene		<1		<1		<1		<1		<1		<1			
Propylbenzene		<1		<1		<1		<1		<1		<1			
2-Chlorotoluene		<1		<1		<1		<1		<1		<1			
1,3,5-Trimethylbenzene		<1		<1		<1		<1		<1		<1			
4-Chlorotoluene		<1		<1		<1		<1		<1		<1			
tert-Butylbenzene		<1		<1		<1		<1		<1		<1			
1,2,4-Trimethylbenzene		<1		<1		<1		<1		<1		<1			
sec-Butylbenzene		<1		<1		<1		<1		<1		<1			
4-iso-Propyltoluene		<1		<1		<1		<1		<1		<1			
1,3-Dichlorobenzene		<1		<1		<1		<1		<1		<1			
1,4-Dichlorobenzene		<1		<1		<1		<1		<1		<1			
n-Butylbenzene		<1		<1		<1		<1		<1		<1			
1,2-Dichlorobenzene		<1		<1		<1		<1		<1		<1			
1,2-Dibromo-3-chloropropane		<1		<1		<1		<1		<1		<1			
1,2,4-Trichlorobenzene		<1		<1		<1		<1		<1		<1			
Hexachlorobutadiene		<1		<1		<1		<1		<1		<1			
tert-Amyl methyl ether (TAME)		<1		<1		<1		<1		<1		<1			
Naphthalene		<1		<1		<1		<1		<1		<1			

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

[illegible]

CERTIFICATE OF ANALYSIS

Validated

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	

VOC MS (W)

Results Legend		Customer Sample Ref.	BH-PTR-08S	BH-PTR-33S	BH-PTR-41S	BH-PTR-43S		
# M ng dis.filt totunfilt * ** (F) 1-4x@	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Disolved / filtered sample. Total / unfiltered sample. Subcontracted - refer to subcontractor report for accreditation status. % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery Trigger breach confirmed Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490261 EW1	2.75 Ground Water (GW) 17/06/2021 21/06/2021 210622-69 24490220 EW1	2.10 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490376 EW1	2.50 Ground Water (GW) 16/06/2021 21/06/2021 210622-69 24490413 EW1		
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM208	110	109	111	109		
Toluene-d8**	%	TM208	99.1	96.1	96	98.4		
4-Bromofluorobenzene**	%	TM208	102	95.6	95.4	99.3		
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Chloromethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Vinyl chloride	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Bromomethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Chloroethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Trichlorofluoromethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,1-Dichloroethene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Carbon disulphide	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Dichloromethane	<3 µg/l	TM208	<3 #	<3 2 #	<3 2 #	<3 #		
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,1-Dichloroethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1 2	<1 2	<1		
Bromochloromethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Chloroform	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,1-Dichloropropene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Carbontetrachloride	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,2-Dichloroethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Benzene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Trichloroethene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,2-Dichloropropane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Dibromomethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Bromodichloromethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
Toluene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #	<1 2 #	<1 2 #	<1 #		

Table of Results - Appendix

Method No		Reference	Description
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984		Determination of alkalinity in aqueous samples
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060		Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984		Determination of Ammonium in Water Samples using the Kone Analyser
TM104	Method 4500F, AWWA/APHA, 20th Ed., 1999		Determination of Fluoride using the Kone Analyser
TM123	BS 2690: Part 121:1981		The Determination of Total Dissolved Solids in Water
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999		Analysis of Aqueous Samples by ICP-MS
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM178	Modified: US EPA Method 8100		Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3		Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,		The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Modified: US EPA Method 8260b & 624		Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM228	US EPA Method 6010B		Determination of Major Cations in Water by iCap 6500 Duo ICP-OES
TM245	By GC-FID		Determination of GRO by Headspace in waters
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.		Determination of pH in Water and Leachate using the GLpH pH Meter
TM259	by HPLC		Determination of Phenols in Waters and Leachates by HPLC
TM279			Determination of Low Level Easily Liberatable (Free) Cyanides and Total Cyanides in Waters using the Skalar SANS+ System Segmented Flow Analyser
TM331			Low Level Hexavalent Chromium

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	24490160	24490319	24490366	24490302	24490242	24490440	24490424	24490230	24490185	24490173
	BH-OBC-06	BH-PTR-03	BH-PTR-04	BH-PTR-07	BH-PTR-10	BH-PTR-12	BH-PTR-14	BH-PTR-19	BH-PTR-35	BH-PTR-36
	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1
AGS Ref.	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1
Depth	7.45	4.00	2.50	12.00	3.00	8.50	7.50	3.50	3.00	2.30
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	24-Jun-2021	28-Jun-2021	24-Jun-2021	24-Jun-2021	25-Jun-2021	24-Jun-2021	24-Jun-2021	28-Jun-2021	24-Jun-2021	24-Jun-2021
Ammonium Low	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021
Anions by Kone (w)	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021
Chromium III	25-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	25-Jun-2021
Dissolved Metals by ICP-MS	25-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	25-Jun-2021	26-Jun-2021	25-Jun-2021	25-Jun-2021
Dissolved Organic/Inorganic Carbon	30-Jun-2021	30-Jun-2021	30-Jun-2021	30-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	30-Jun-2021	30-Jun-2021
EPH CWG (Aliphatic) Aqueous GC (W)	25-Jun-2021	25-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	29-Jun-2021	26-Jun-2021	25-Jun-2021	26-Jun-2021	25-Jun-2021
EPH CWG (Aromatic) Aqueous GC (W)	25-Jun-2021	25-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	29-Jun-2021	26-Jun-2021	25-Jun-2021	26-Jun-2021	25-Jun-2021
Fluoride	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
GRO by GC-FID (W)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Low Level Cyanide (W)	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
Low Level Hexavalent Chromium (w)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Mercury Dissolved	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	24-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	24-Jun-2021	24-Jun-2021
Nitrite by Kone (w)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
PAH Spec MS - Aqueous (W)	24-Jun-2021	24-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	24-Jun-2021	25-Jun-2021	24-Jun-2021
pH Value	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
Phenols by HPLC (W)	25-Jun-2021	24-Jun-2021	25-Jun-2021	25-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
Sulphur Dissolved by ICP-OES	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Total Dissolved Solids	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Total Metals by ICP-MS	24-Jun-2021	24-Jun-2021	26-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	25-Jun-2021	24-Jun-2021
TPH CWG (W)	25-Jun-2021	25-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	29-Jun-2021	26-Jun-2021	25-Jun-2021	26-Jun-2021	25-Jun-2021
VOC MS (W)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021

Lab Sample No(s) Customer Sample Ref.	24490453	24490354	24490284	24490199	24490330	24490387	24490398	24490343	24490261	24490220
	BH-PTR-39	BH-PTR-02D	BH-PTR-08D	BH-PTR-33D	BH-PTR-41D	BH-PTR-42D	BH-PTR-43D	BH-PTR-02S	BH-PTR-08S	BH-PTR-33S
	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1
AGS Ref.	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1
Depth	13.00	7.25	12.00	25.00	7.50	6.75	7.00	1.70	2.00	2.75
Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Alkalinity as CaCO3	24-Jun-2021	24-Jun-2021	25-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	28-Jun-2021	25-Jun-2021	24-Jun-2021
Ammonium Low	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021	29-Jun-2021
Anions by Kone (w)	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021
Chromium III	25-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021
Dissolved Metals by ICP-MS	25-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021
Dissolved Organic/Inorganic Carbon	29-Jun-2021	30-Jun-2021	29-Jun-2021	02-Jul-2021	30-Jun-2021	30-Jun-2021	01-Jul-2021	30-Jun-2021	29-Jun-2021	30-Jun-2021
EPH CWG (Aliphatic) Aqueous GC (W)	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	27-Jun-2021	27-Jun-2021	26-Jun-2021	26-Jun-2021
EPH CWG (Aromatic) Aqueous GC (W)	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	27-Jun-2021	27-Jun-2021	26-Jun-2021	26-Jun-2021
Fluoride	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
GRO by GC-FID (W)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	24-Jun-2021
Low Level Cyanide (W)	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
Low Level Hexavalent Chromium (w)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Mercury Dissolved	23-Jun-2021	23-Jun-2021	24-Jun-2021	24-Jun-2021	23-Jun-2021	24-Jun-2021	24-Jun-2021	23-Jun-2021	23-Jun-2021	24-Jun-2021
Nitrite by Kone (w)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
PAH Spec MS - Aqueous (W)	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	25-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	25-Jun-2021	25-Jun-2021
pH Value	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
Phenols by HPLC (W)	25-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	23-Jun-2021	24-Jun-2021
Sulphur Dissolved by ICP-OES	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Total Dissolved Solids	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021
Total Metals by ICP-MS	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021	24-Jun-2021
TPH CWG (W)	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	26-Jun-2021	25-Jun-2021	27-Jun-2021	27-Jun-2021	26-Jun-2021	26-Jun-2021
VOC MS (W)	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	23-Jun-2021	24-Jun-2021

CERTIFICATE OF ANALYSIS

Validated

SDG: 210622-69

Client Reference: B025563

Report Number:

604211

Location: Cambridge South East Tra

Order Number: 7000964

Superseded Report:

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

24490376	24490413
BH-PTR-41S	BH-PTR-43S
EW1	EW1
2.10	2.50
Ground Water	Ground Water

Alkalinity as CaCO3	24-Jun-2021	24-Jun-2021
Ammonium Low	29-Jun-2021	29-Jun-2021
Anions by Kone (w)	25-Jun-2021	25-Jun-2021
Chromium III	25-Jun-2021	25-Jun-2021
Dissolved Metals by ICP-MS	25-Jun-2021	25-Jun-2021
Dissolved Organic/Inorganic Carbon	01-Jul-2021	30-Jun-2021
EPH CWG (Aliphatic) Aqueous GC (W)	26-Jun-2021	25-Jun-2021
EPH CWG (Aromatic) Aqueous GC (W)	26-Jun-2021	25-Jun-2021
Fluoride	23-Jun-2021	23-Jun-2021
GRO by GC-FID (W)	24-Jun-2021	23-Jun-2021
Low Level Cyanide (W)	24-Jun-2021	24-Jun-2021
Low Level Hexavalent Chromium (w)	23-Jun-2021	23-Jun-2021
Mercury Dissolved	24-Jun-2021	23-Jun-2021
Nitrite by Kone (w)	23-Jun-2021	23-Jun-2021
PAH Spec MS - Aqueous (W)	25-Jun-2021	24-Jun-2021
pH Value	24-Jun-2021	24-Jun-2021
Phenols by HPLC (W)	24-Jun-2021	24-Jun-2021
Sulphur Dissolved by ICP-OES	23-Jun-2021	23-Jun-2021
Total Dissolved Solids	23-Jun-2021	23-Jun-2021
Total Metals by ICP-MS	24-Jun-2021	24-Jun-2021
TPH CWG (W)	26-Jun-2021	25-Jun-2021
VOC MS (W)	24-Jun-2021	23-Jun-2021

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Location: Cambridge South East Tra		Order Number: 7000964		Superseded Report:		

ASSOCIATED AQC DATA

Alkalinity as CaCO3

Component	Method Code	QC 2477	QC 2495	QC 2432	QC 2416	QC 2473	QC 2413
Total Alkalinity as CaCO3	TM043	100.51 94.47 : 104.41	101.01 96.11 : 105.65	101.01 94.47 : 104.41	100.0 94.47 : 104.41	98.48 96.11 : 105.65	98.48 96.11 : 105.65

Component	Method Code	QC 2478	QC 2455
Total Alkalinity as CaCO3	TM043	99.49 94.47 : 104.41	100.51 94.47 : 104.41

Ammonium Low

Component	Method Code	QC 2499	QC 2414
Ammoniacal Nitrogen as N	TM099	102.4 94.00 : 106.00	101.0 94.00 : 106.00

Anions by Kone (w)

Component	Method Code	QC 2477	QC 2443
Chloride	TM184	105.0 92.93 : 115.43	106.0 92.93 : 115.43
Sulphate (soluble)	TM184	103.6 90.53 : 113.03	102.8 90.53 : 113.03
TON as NO3	TM184	106.5 99.60 : 111.90	105.0 99.60 : 111.90

Dissolved Metals by ICP-MS

Component	Method Code	QC 2485	QC 2496	QC 2427
Aluminium	TM152	99.0 94.21 : 111.52	101.0 94.21 : 111.52	99.33 94.21 : 111.52
Antimony	TM152	108.17 88.37 : 130.57	107.83 88.37 : 130.57	108.17 88.37 : 130.57
Arsenic	TM152	107.33 92.62 : 113.52	102.0 92.62 : 113.52	99.5 92.62 : 113.52
Barium	TM152	103.67 88.62 : 113.14	100.83 88.62 : 113.14	102.17 88.62 : 113.14
Beryllium	TM152	99.17 87.08 : 111.38	100.17 87.08 : 111.38	101.0 87.08 : 111.38
Bismuth	TM152	101.33 92.62 : 115.02	101.33 92.62 : 115.02	101.83 92.62 : 115.02
Boron	TM152	96.67 86.31 : 120.88	98.67 86.31 : 120.88	99.33 86.31 : 120.88
Cadmium	TM152	102.83 93.85 : 111.65	101.0 93.85 : 111.65	100.83 93.85 : 111.65

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Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Dissolved Metals by ICP-MS					

		QC 2485	QC 2496	QC 2427
Calcium	TM152	104.0 89.20 : 126.91	100.67 89.20 : 126.91	98.67 89.20 : 126.91
Chromium	TM152	103.83 92.50 : 113.03	101.0 92.50 : 113.03	98.17 92.50 : 113.03
Cobalt	TM152	104.0 85.01 : 114.87	101.17 85.01 : 114.87	97.33 85.01 : 114.87
Copper	TM152	104.33 89.87 : 119.73	103.0 89.87 : 119.73	98.0 89.87 : 119.73
Iron	TM152	103.33 93.02 : 113.86	101.33 93.02 : 113.86	98.67 93.02 : 113.86
Lead	TM152	101.67 91.11 : 116.98	100.17 91.11 : 116.98	100.67 91.11 : 116.98
Lithium	TM152	99.83 87.70 : 115.90	100.67 87.70 : 115.90	100.83 87.70 : 115.90
Magnesium	TM152	99.33 89.60 : 116.61	98.0 89.60 : 116.61	96.0 89.60 : 116.61
Manganese	TM152	104.17 93.97 : 112.46	101.83 93.97 : 112.46	99.0 93.97 : 112.46
Molybdenum	TM152	102.33 89.07 : 110.96	99.17 89.07 : 110.96	96.67 89.07 : 110.96
Nickel	TM152	104.5 93.70 : 112.15	102.33 93.70 : 112.15	97.83 93.70 : 112.15
Phosphorus	TM152	104.67 89.24 : 114.18	100.67 89.24 : 114.18	98.17 89.24 : 114.18
Potassium	TM152	104.67 93.20 : 115.55	101.33 93.20 : 115.55	99.33 93.20 : 115.55
Selenium	TM152	106.0 91.69 : 117.12	101.33 91.69 : 117.12	102.67 91.69 : 117.12
Silver	TM152	101.0 90.93 : 121.73	100.67 90.93 : 121.73	97.33 90.93 : 121.73
Sodium	TM152	100.0 92.42 : 113.24	98.67 92.42 : 113.24	96.67 92.42 : 113.24
Strontium	TM152	103.67 92.14 : 116.24	103.0 92.14 : 116.24	100.33 92.14 : 116.24
Tellurium	TM152	102.17 89.88 : 111.78	99.67 89.88 : 111.78	97.0 89.88 : 111.78
Thallium	TM152	98.33 82.43 : 113.83	96.5 82.43 : 113.83	92.17 82.43 : 113.83
Tin	TM152	104.33 94.62 : 107.79	102.17 94.62 : 107.79	101.17 94.62 : 107.79
Titanium	TM152	103.0 90.29 : 115.23	102.5 90.29 : 115.23	100.17 90.29 : 115.23
Tungsten	TM152	100.17 77.61 : 132.31	97.83 77.61 : 132.31	98.33 77.61 : 132.31
Uranium	TM152	102.17 86.97 : 115.76	100.83 86.97 : 115.76	100.0 86.97 : 115.76
Vanadium	TM152	103.83 89.61 : 115.48	98.33 89.61 : 115.48	98.0 89.61 : 115.48
Zinc	TM152	104.0 87.51 : 116.26	101.67 87.51 : 116.26	99.33 87.51 : 116.26

Dissolved Organic/Inorganic Carbon

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Location:	Cambridge South East Tra	Order Number:	7000964	Superseded Report:	
Dissolved Organic/Inorganic Carbon					

Component	Method Code	QC 2428	QC 2492	QC 2461
Dissolved Inorganic Carbon	TM090	99.0 93.58 : 112.28	98.17 93.58 : 112.28	96.83 93.58 : 112.28
Dissolved Organic Carbon	TM090	101.67 96.13 : 109.53	101.67 96.13 : 109.53	100.17 96.13 : 109.53

EPH CWG (Aliphatic) Aqueous GC (W)

Component	Method Code	QC 2439	QC 2438	QC 2435	QC 2405	QC 2423
Total Aliphatics >C10-C40	TM174	97.03 65.58 : 141.57	94.39 68.59 : 134.82	94.06 68.59 : 134.82	91.25 65.58 : 141.57	114.36 68.59 : 134.82

EPH CWG (Aromatic) Aqueous GC (W)

Component	Method Code	QC 2410	QC 2448	QC 2459	QC 2426	QC 2463
Total Aromatics >EC10-EC40	TM174	93.66 60.75 : 129.09	87.56 60.75 : 129.09	84.39 60.75 : 129.09	91.22 60.75 : 129.09	92.2 60.75 : 129.09

Fluoride

Component	Method Code	QC 2491	QC 2497	QC 2409	QC 2417	QC 2423
Fluoride	TM104	104.0 96.67 : 108.67	105.33 96.67 : 108.67	106.0 96.67 : 108.67	106.0 96.67 : 108.67	103.33 96.67 : 108.67

GRO by GC-FID (W)

Component	Method Code	QC 2467	QC 2424	QC 2400
Benzene by GC	TM245	99.0 79.13 : 118.84	94.5 79.13 : 118.84	92.0 79.13 : 118.84
Ethylbenzene by GC	TM245	97.0 79.54 : 115.99	95.0 79.54 : 115.99	90.0 79.54 : 115.99
m & p Xylene by GC	TM245	97.75 78.44 : 116.32	95.75 78.44 : 116.32	90.0 78.44 : 116.32
MTBE GC-FID	TM245	95.5 81.43 : 120.09	90.5 81.43 : 120.09	92.5 81.43 : 120.09
o Xylene by GC	TM245	99.5 76.85 : 120.29	97.5 76.85 : 120.29	93.0 76.85 : 120.29
QC	TM245	104.87 71.58 : 131.01	94.95 71.58 : 131.01	91.67 71.58 : 131.01
Toluene by GC	TM245	98.0 79.00 : 121.96	94.5 79.00 : 121.96	90.5 79.00 : 121.96

Low Level Cyanide (W)

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Low Level Cyanide (W)						

Component	Method Code	QC 2451	QC 2402
Free Cyanide - Low Level	TM279	80.75 88.27 : 122.21	79.25 88.27 : 122.21
Total Cyanide - Low Level	TM279	101.0 76.58 : 119.24	104.0 76.58 : 119.24

Mercury Dissolved					
Component	Method Code	QC 2475	QC 2479	QC 2420	QC 2483
Mercury Dissolved (CVAf)	TM183	101.0 0.00 : 0.00	99.1 0.00 : 0.00	103.0 0.00 : 0.00	102.0 0.00 : 0.00

PAH Spec MS - Aqueous (W)				
Component	Method Code	QC 2491	QC 2449	QC 2428
Acenaphthene by GCMS	TM178	104.0 97.60 : 116.80	108.0 90.45 : 118.63	110.4 90.45 : 118.63
Acenaphthylene by GCMS	TM178	97.2 89.20 : 113.20	110.8 90.13 : 116.27	108.0 90.13 : 116.27
Anthracene by GCMS	TM178	99.2 92.40 : 116.40	108.4 92.40 : 114.00	105.2 92.40 : 114.00
Benz(a)anthracene by GCMS	TM178	95.2 84.40 : 110.80	107.2 89.51 : 117.69	106.0 89.51 : 117.69
Benzo(a)pyrene by GCMS	TM178	98.4 88.40 : 110.00	110.0 89.43 : 118.57	109.2 89.43 : 118.57
Benzo(b)fluoranthene by GCMS	TM178	92.0 81.20 : 114.80	108.4 87.80 : 121.80	105.2 87.80 : 121.80
Benzo(ghi)perylene by GCMS	TM178	103.2 93.60 : 112.80	104.8 87.10 : 119.30	101.6 87.10 : 119.30
Benzo(k)fluoranthene by GCMS	TM178	100.0 90.40 : 119.20	110.4 93.23 : 123.57	106.4 93.23 : 123.57
Chrysene by GCMS	TM178	106.4 96.80 : 113.60	111.2 88.68 : 116.92	111.6 88.68 : 116.92
Dibenzo(ah)anthracene by GCMS	TM178	93.6 88.00 : 112.00	105.6 86.24 : 118.56	103.2 86.24 : 118.56
Fluoranthene by GCMS	TM178	101.2 93.49 : 118.20	100.8 86.04 : 121.96	101.6 86.04 : 121.96
Fluorene by GCMS	TM178	103.2 94.39 : 118.66	109.2 90.76 : 121.24	107.6 90.76 : 121.24
Indeno(123cd)pyrene by GCMS	TM178	94.8 90.40 : 114.40	96.0 88.39 : 119.61	105.6 88.39 : 119.61
Naphthalene by GCMS	TM178	112.8 94.00 : 115.60	112.0 89.40 : 121.80	110.8 89.40 : 121.80
Phenanthrene by GCMS	TM178	104.0 94.80 : 114.00	110.0 90.41 : 119.19	108.0 90.41 : 119.19
Pyrene by GCMS	TM178	105.2 96.40 : 115.60	100.8 91.00 : 120.20	99.6 91.00 : 120.20

pH Value

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	pH Value					

Component	Method Code	QC 2477	QC 2479
pH	TM256	100.27 99.33 : 102.54	100.67 99.33 : 102.54

Phenols by HPLC (W)				
Component	Method Code	QC 2455	QC 2422	QC 2465
2,3,5 Trimethyl-Phenol by HPLC (W)	TM259	95.7 77.41 : 127.55	93.75 77.41 : 127.55	97.66 77.41 : 127.55
2-Isopropyl Phenol by HPLC (W)	TM259	89.87 82.77 : 126.51	86.04 82.77 : 126.51	91.78 82.77 : 126.51
Cresols by HPLC (W)	TM259	96.05 76.60 : 126.28	96.05 76.60 : 126.28	98.68 76.60 : 126.28
Napthol by HPLC (W)	TM259	95.7 75.40 : 129.40	91.8 75.40 : 129.40	103.52 75.40 : 129.40
Phenol by HPLC (W)	TM259	92.63 85.77 : 125.91	92.63 85.77 : 125.91	96.41 85.77 : 125.91
Xylenols by HPLC (W)	TM259	93.99 79.09 : 131.82	93.35 79.09 : 131.82	96.84 79.09 : 131.82

Sulphur Dissolved by ICP-OES			
Component	Method Code	QC 2466	QC 2472
Sulphur Dissolved	TM228	97.7 83.39 : 110.45	94.8 83.39 : 110.45

Total Dissolved Solids					
Component	Method Code	QC 2497	QC 2462	QC 2483	QC 2447
Total Dissolved Solids	TM123	100.0 97.30 : 100.92	99.0 97.30 : 100.92	98.1 97.30 : 100.92	100.0 97.30 : 100.92

Total Metals by ICP-MS				
Component	Method Code	QC 2449	QC 2452	QC 2457
Aluminium	TM152	106.33 88.99 : 114.16	104.0 88.99 : 114.16	103.67 88.99 : 114.16
Antimony	TM152	108.0 80.45 : 122.65	118.0 80.45 : 122.65	106.33 80.45 : 122.65
Arsenic	TM152	107.67 85.20 : 116.13	108.83 85.20 : 116.13	105.33 85.20 : 116.13
Barium	TM152	106.5 88.50 : 113.15	106.33 88.50 : 113.15	105.17 88.50 : 113.15
Beryllium	TM152	105.67 83.77 : 113.97	104.17 83.77 : 113.97	104.5 83.77 : 113.97



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Superseded Report:

Total Metals by ICP-MS

		QC 2449	QC 2452	QC 2457
Bismuth	TM152	102.17 91.18 : 107.28	107.33 91.18 : 107.28	100.67 91.18 : 107.28
Boron	TM152	106.0 86.68 : 117.67	103.0 86.68 : 117.67	103.0 86.68 : 117.67
Cadmium	TM152	108.17 87.95 : 113.45	108.5 87.95 : 113.45	100.67 87.95 : 113.45
Calcium	TM152	110.0 81.38 : 119.09	110.0 81.38 : 119.09	106.67 81.38 : 119.09
Chromium	TM152	107.17 90.87 : 108.50	106.17 90.87 : 108.50	102.17 90.87 : 108.50
Cobalt	TM152	109.0 84.39 : 114.26	107.17 84.39 : 114.26	102.17 84.39 : 114.26
Copper	TM152	109.67 84.61 : 114.08	108.5 84.61 : 114.08	103.0 84.61 : 114.08
Iron	TM152	106.67 90.00 : 111.84	105.33 90.00 : 111.84	100.67 90.00 : 111.84
Lead	TM152	105.33 85.65 : 113.58	107.17 85.65 : 113.58	105.83 85.65 : 113.58
Lithium	TM152	104.83 87.07 : 115.37	102.5 87.07 : 115.37	103.33 87.07 : 115.37
Magnesium	TM152	104.0 86.65 : 109.61	100.0 86.65 : 109.61	102.67 86.65 : 109.61
Manganese	TM152	106.67 91.67 : 111.62	105.83 91.67 : 111.62	103.5 91.67 : 111.62
Molybdenum	TM152	99.17 87.00 : 108.89	103.5 87.00 : 108.89	94.33 87.00 : 108.89
Nickel	TM152	108.83 88.26 : 111.14	107.33 88.26 : 111.14	103.5 88.26 : 111.14
Phosphorus	TM152	104.17 84.56 : 112.20	106.5 84.56 : 112.20	106.17 84.56 : 112.20
Potassium	TM152	105.33 86.97 : 112.46	105.33 86.97 : 112.46	106.0 86.97 : 112.46
Selenium	TM152	106.0 88.44 : 113.86	110.17 88.44 : 113.86	104.0 88.44 : 113.86
Silver	TM152	97.67 82.13 : 120.33	109.67 82.13 : 120.33	92.17 82.13 : 120.33
Sodium	TM152	104.67 84.47 : 113.44	100.67 84.47 : 113.44	104.0 84.47 : 113.44
Strontium	TM152	105.0 90.72 : 114.82	106.0 90.72 : 114.82	104.33 90.72 : 114.82
Tellurium	TM152	103.0 86.97 : 108.87	111.5 86.97 : 108.87	104.67 86.97 : 108.87
Thallium	TM152	96.83 80.92 : 114.72	102.0 80.92 : 114.72	93.67 80.92 : 114.72
Tin	TM152	105.5 88.91 : 108.41	108.5 88.91 : 108.41	99.33 88.91 : 108.41
Titanium	TM152	109.17 90.30 : 110.00	110.5 90.30 : 110.00	105.0 90.30 : 110.00
Uranium	TM152	104.0 84.78 : 111.18	106.83 84.78 : 111.18	103.17 84.78 : 111.18
Vanadium	TM152	101.5 88.43 : 114.30	102.5 88.43 : 114.30	103.0 88.43 : 114.30
Zinc	TM152	109.0 86.52 : 115.27	108.0 86.52 : 115.27	104.0 86.52 : 115.27



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Order Number: 7000964

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VOC MS (W)

Component	Method Code	QC 2424	QC 2478	QC 2414
1,1,1,2-Tetrachloroethane	TM208	110.0 87.33 : 109.74	110.5 87.71 : 111.59	107.5 87.33 : 109.74
1,1,1-Trichloroethane	TM208	107.0 84.51 : 110.07	101.5 82.66 : 112.06	104.0 84.51 : 110.07
1,1-Dichloroethane	TM208	108.5 79.60 : 118.57	102.5 79.99 : 118.57	105.0 79.60 : 118.57
1,2-Dichloroethane	TM208	111.5 77.72 : 133.33	105.0 79.35 : 124.02	105.5 77.72 : 133.33
2-Chlorotoluene	TM208	104.5 82.89 : 116.61	108.0 79.67 : 114.74	101.5 82.89 : 116.61
4-Chlorotoluene	TM208	107.5 79.46 : 115.88	107.0 80.15 : 113.42	102.0 79.46 : 115.88
Benzene	TM208	108.5 81.22 : 118.60	102.5 82.57 : 114.10	105.0 81.22 : 118.60
Bromomethane	TM208	108.0 79.31 : 116.90	101.0 78.77 : 123.20	103.5 79.31 : 116.90
Carbontetrachloride	TM208	110.5 86.16 : 119.10	104.5 79.73 : 118.91	106.0 86.16 : 119.10
Chlorobenzene	TM208	110.0 87.25 : 116.65	108.5 88.28 : 110.81	106.5 87.25 : 116.65
Chloroform	TM208	110.0 83.01 : 121.64	103.5 82.31 : 120.71	106.0 83.01 : 121.64
Chloromethane	TM208	114.5 77.95 : 136.54	96.5 62.46 : 124.98	107.5 77.95 : 136.54
Cis-1,2-Dichloroethene	TM208	108.0 85.03 : 112.75	105.0 83.75 : 118.91	103.5 85.03 : 112.75
Dichloromethane	TM208	109.0 78.23 : 120.65	105.5 81.20 : 120.83	103.5 78.23 : 120.65
Ethylbenzene	TM208	105.0 79.55 : 110.51	104.0 80.54 : 112.31	101.5 79.55 : 110.51
Hexachlorobutadiene	TM208	90.5 68.58 : 117.78	98.5 73.65 : 117.84	82.5 68.58 : 117.78
o-Xylene	TM208	105.5 85.06 : 114.91	105.5 87.93 : 111.69	102.0 85.06 : 114.91
p/m-Xylene	TM208	104.75 82.09 : 109.18	105.5 83.09 : 113.86	103.0 82.09 : 109.18
Tert-butyl methyl ether	TM208	102.5 68.39 : 125.81	98.0 70.94 : 119.66	100.5 68.39 : 125.81
Tetrachloroethene	TM208	106.0 82.09 : 113.14	106.0 84.41 : 112.73	102.5 82.09 : 113.14
Toluene	TM208	104.5 79.88 : 116.83	103.0 81.59 : 111.56	102.5 79.88 : 116.83
Trichloroethene	TM208	106.5 82.30 : 112.45	104.5 87.25 : 109.75	102.5 82.30 : 112.45
Vinyl Chloride	TM208	109.0 71.34 : 122.34	95.5 71.92 : 126.73	105.0 71.34 : 122.34

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis .
The figure detailed is the percentage recovery result for the AQC .
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control .



CERTIFICATE OF ANALYSIS

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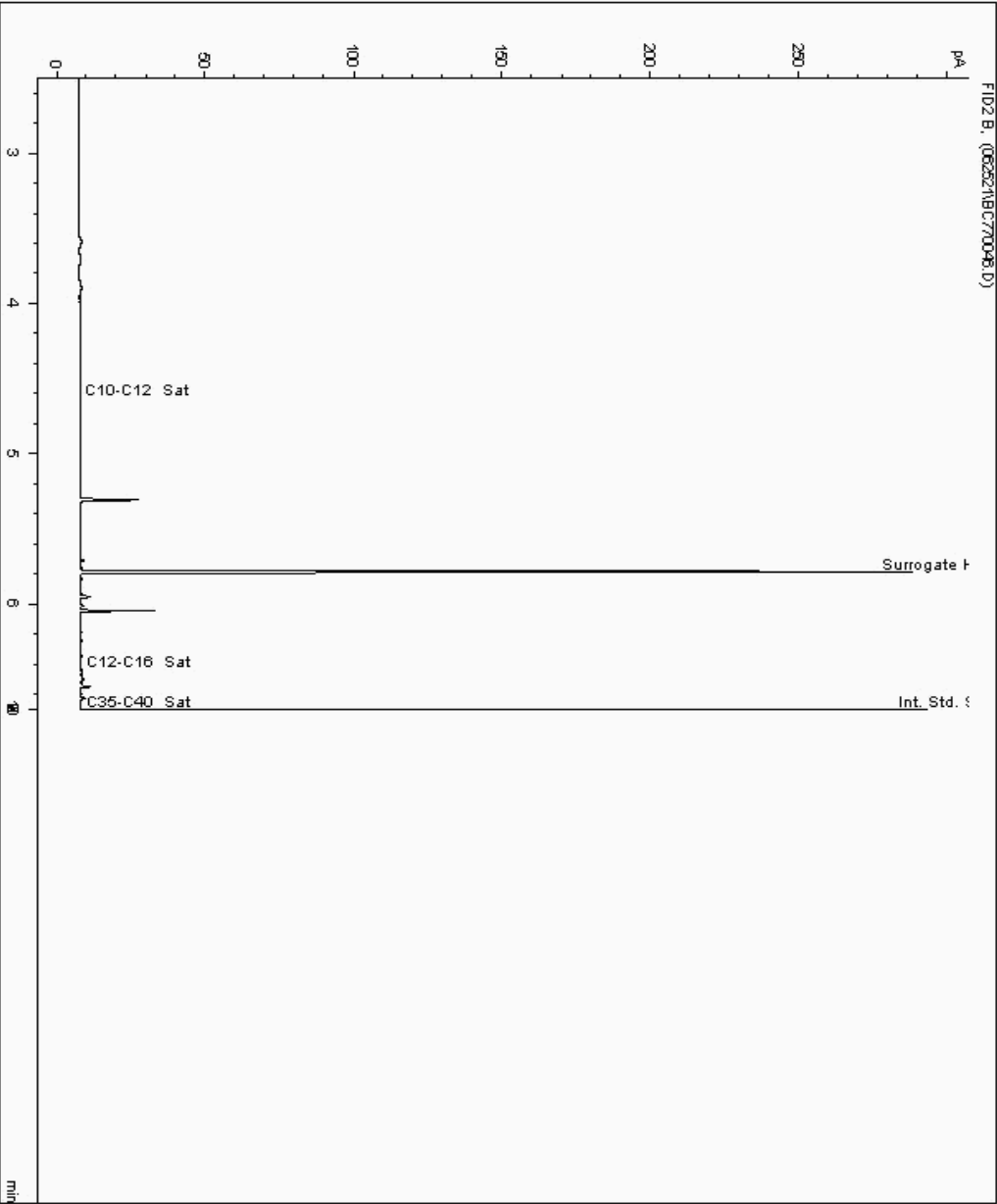
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492222 Depth : 7.50
Sample ID : BH-PTR-41D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926336-
Date Acquired : 6/26/2021 4:49:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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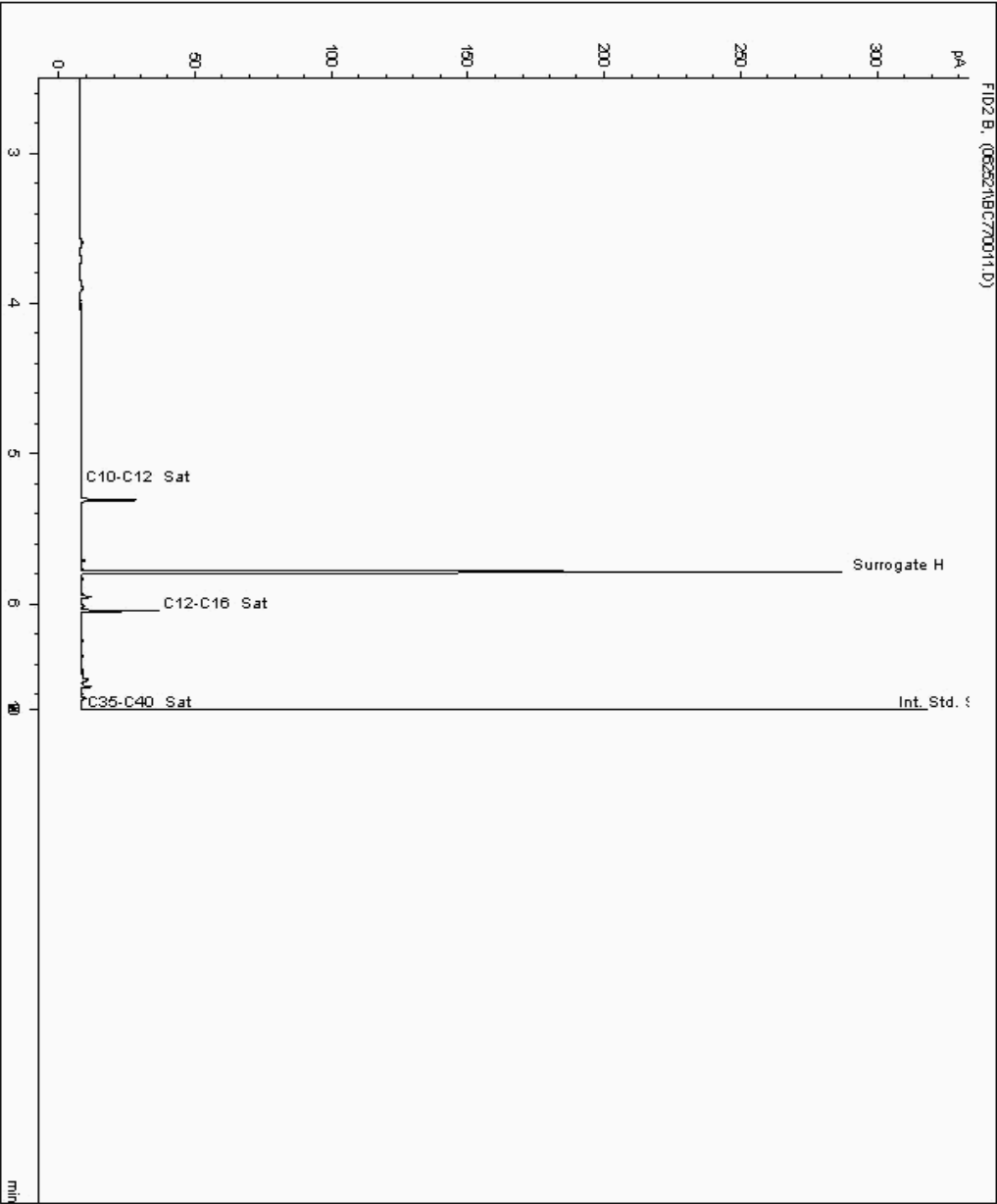
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492234 Depth : 2.10
Sample ID : BH-PTR-41S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926520-
Date Acquired : 6/25/2021 4:54:42 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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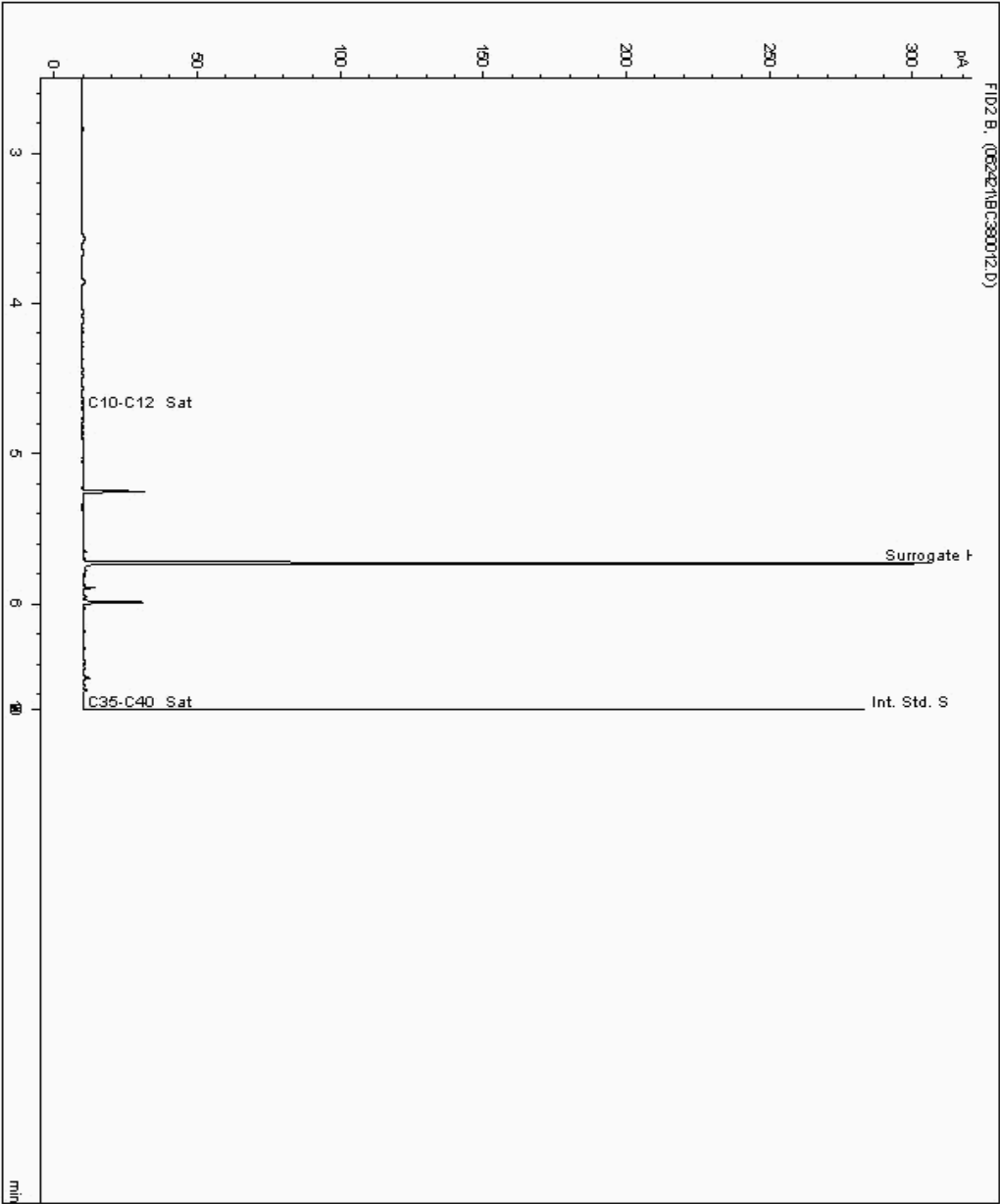
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492252 Depth : 7.45
Sample ID : BH-OBC-06

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22925947-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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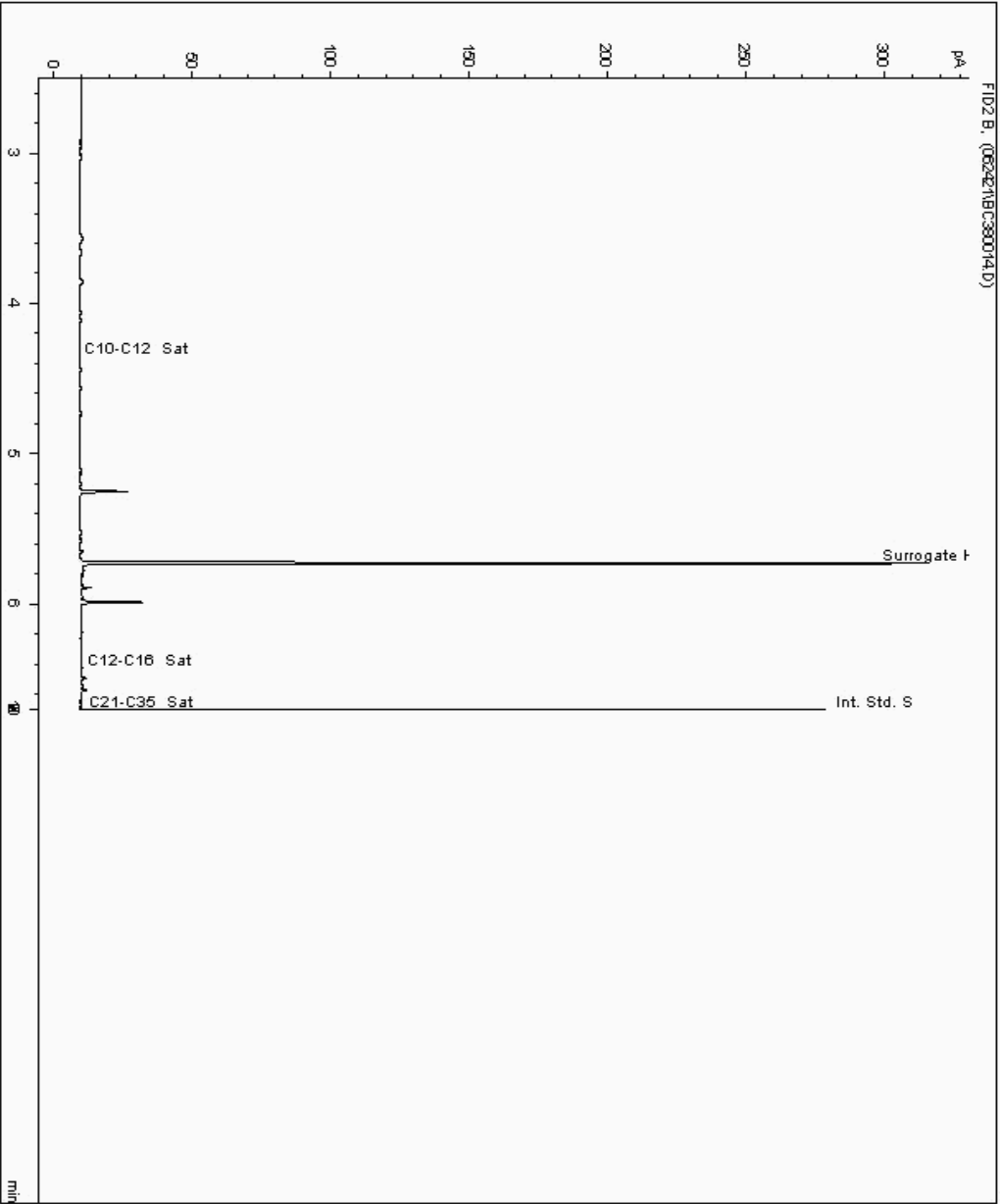
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492262 Depth : 6.75
Sample ID : BH-PTR-42D

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926550-
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Units : ppb
Dilution :
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Multiplier : 0.025





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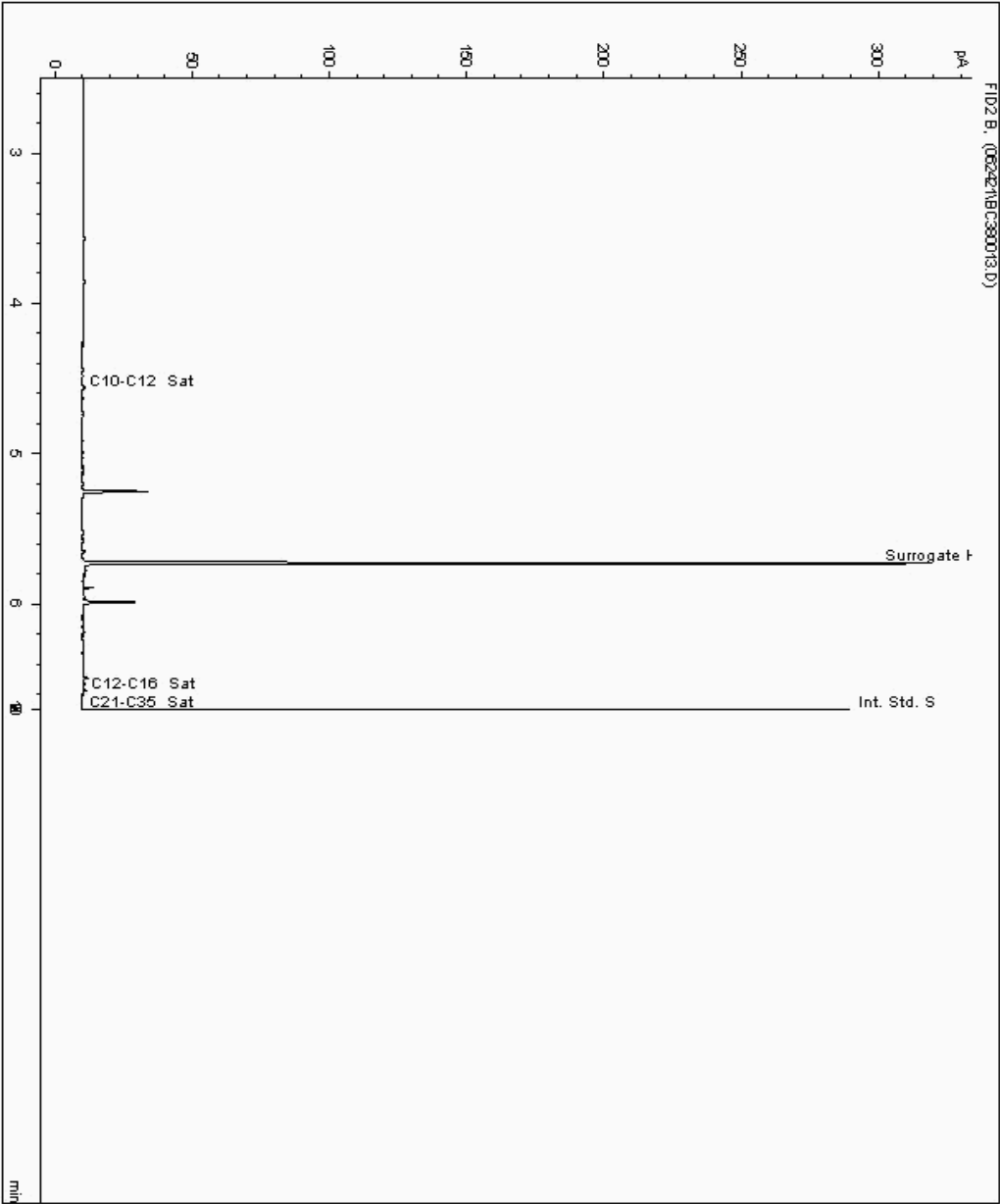
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492276 Depth : 2.50
Sample ID : BH-PTR-43S

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926628-
Date Acquired : 24/06/21 16:20:10 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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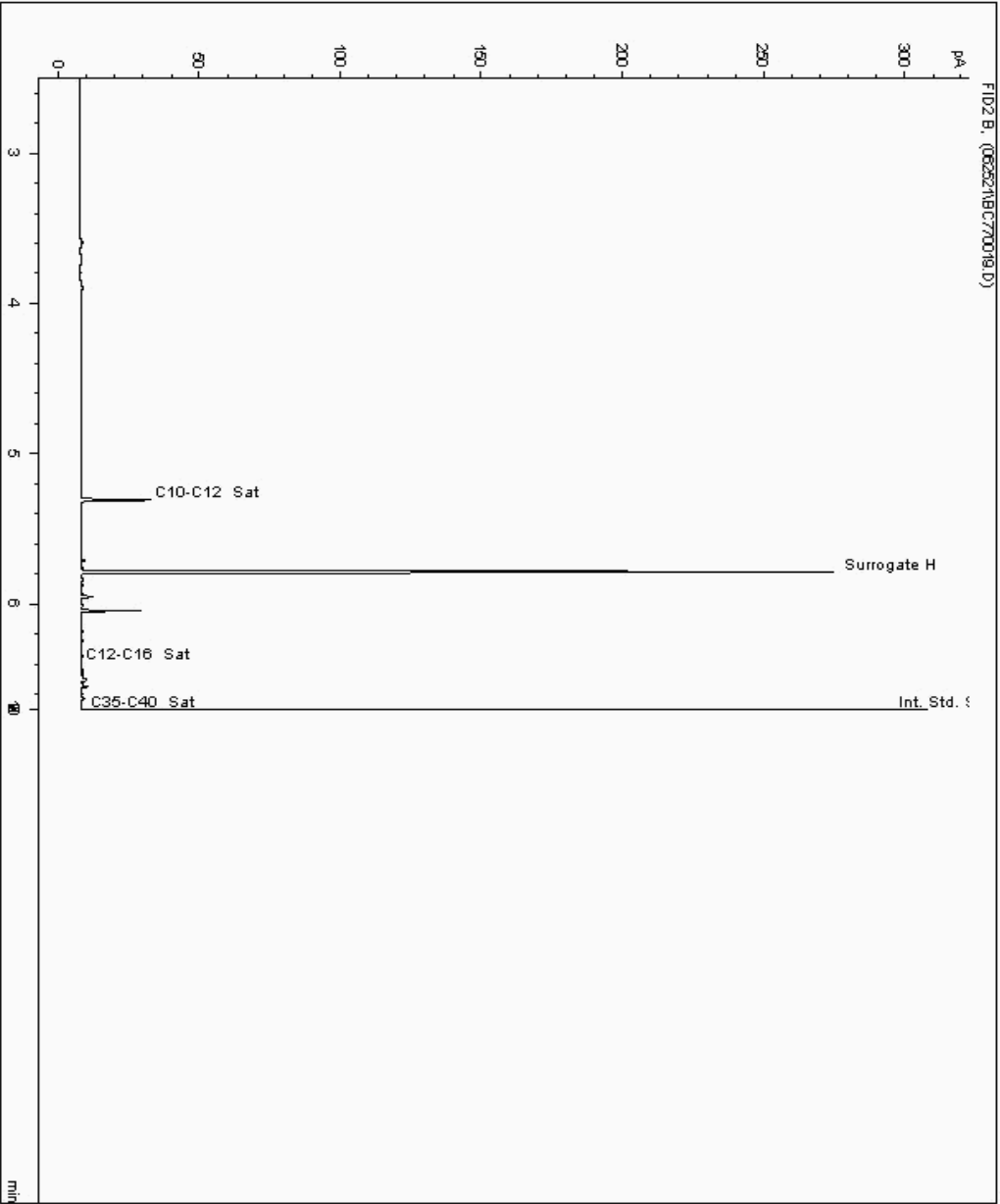
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492510 Depth : 2.50
Sample ID : BH-PTR-04

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926494-
Date Acquired : 6/25/2021 7:59:51 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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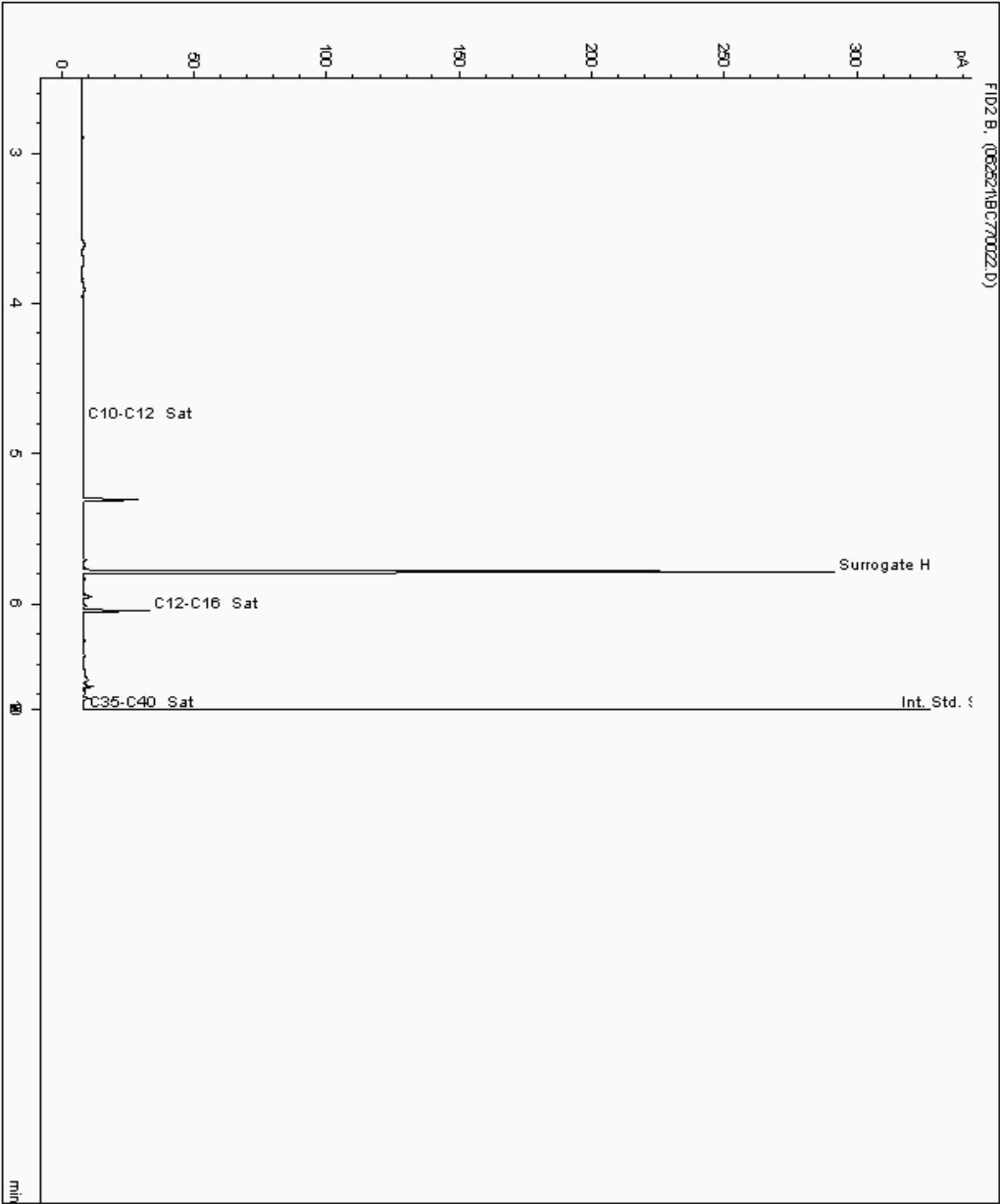
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492582 Depth : 7.25
Sample ID : BH-PTR-02D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926440-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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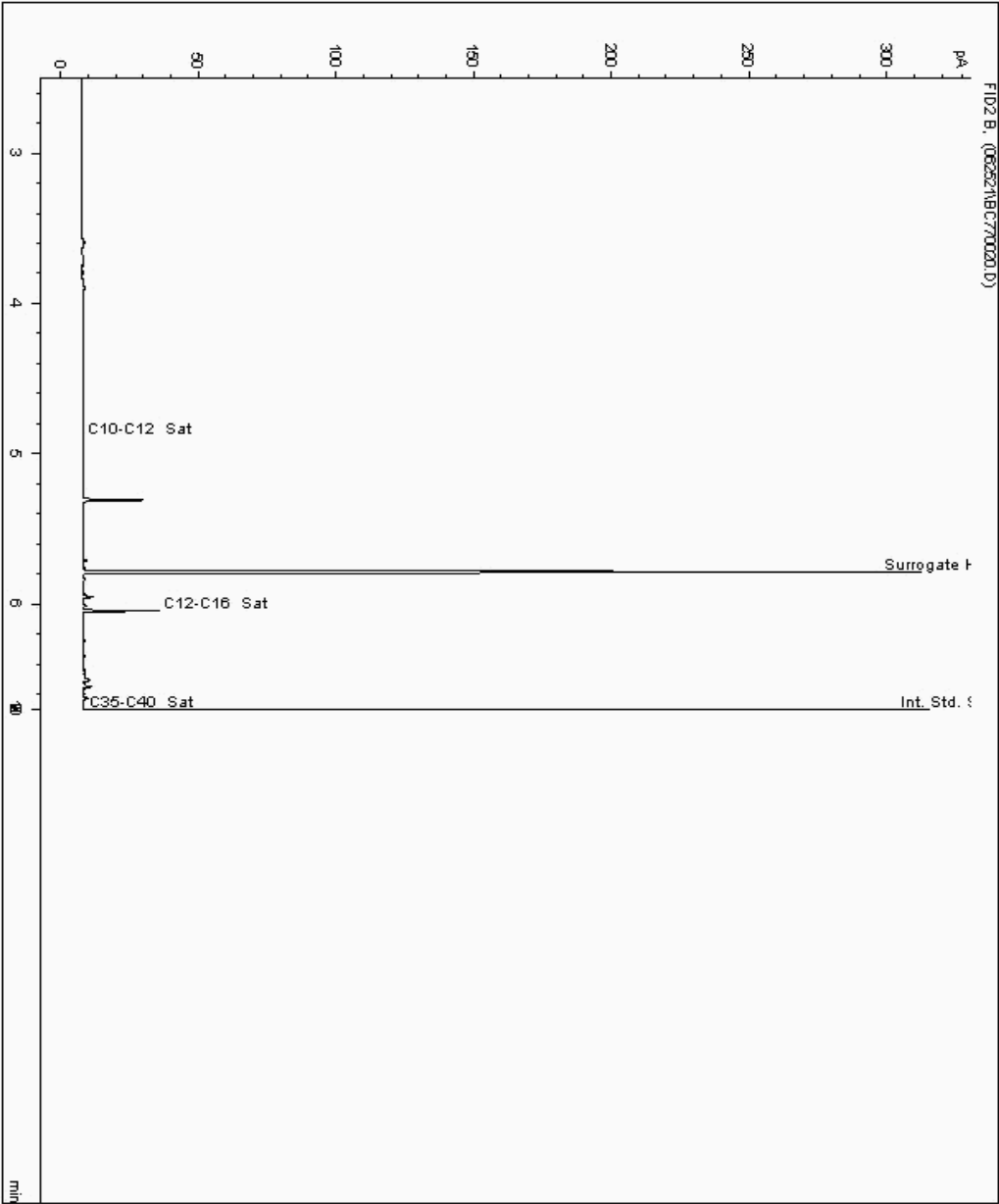
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492590 Depth : 12.00
Sample ID : BH-PTR-07

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926244-
Date Acquired : 6/25/2021 8:23:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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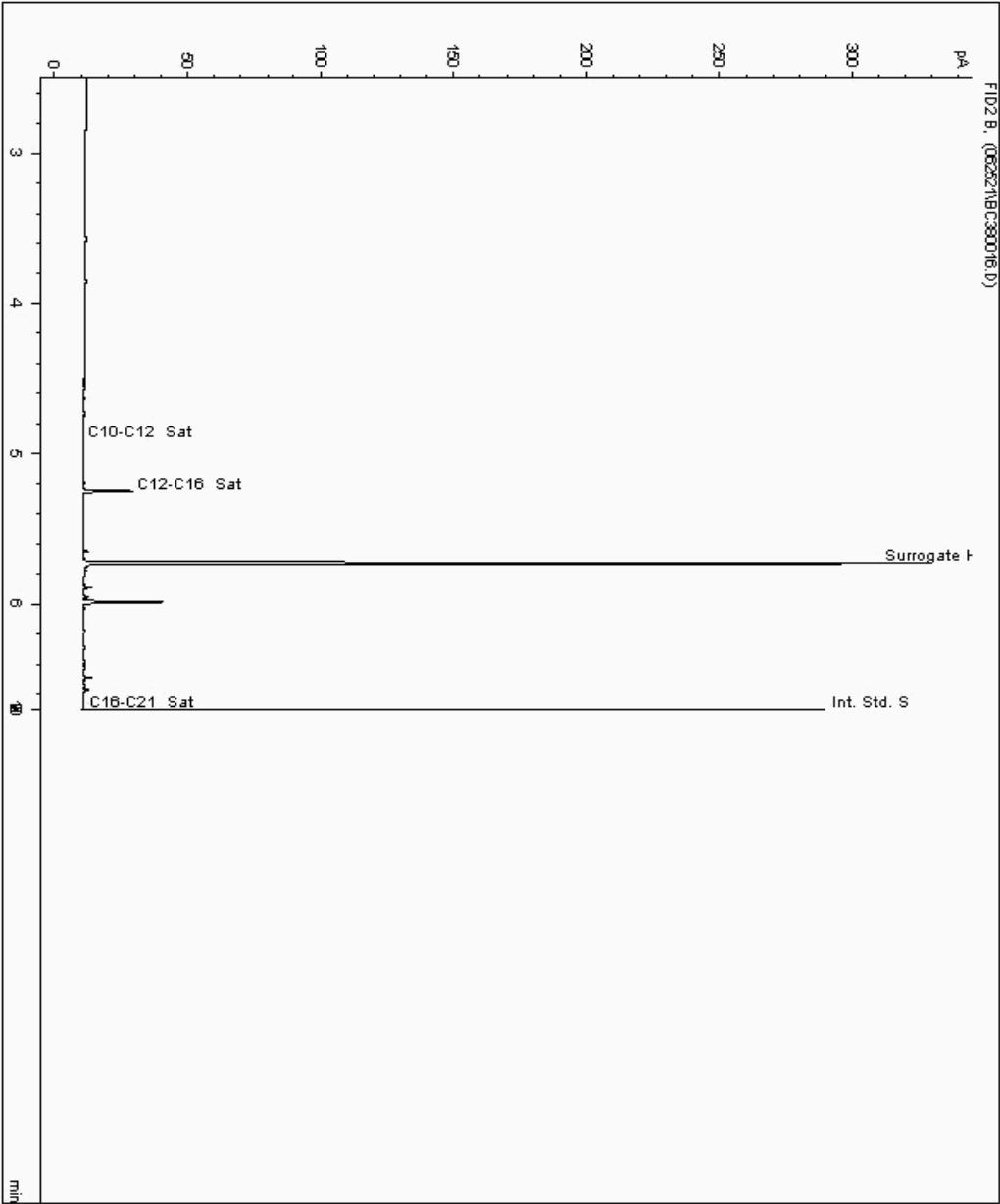
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492598 Depth : 1.70
Sample ID : BH-PTR-02S

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926386-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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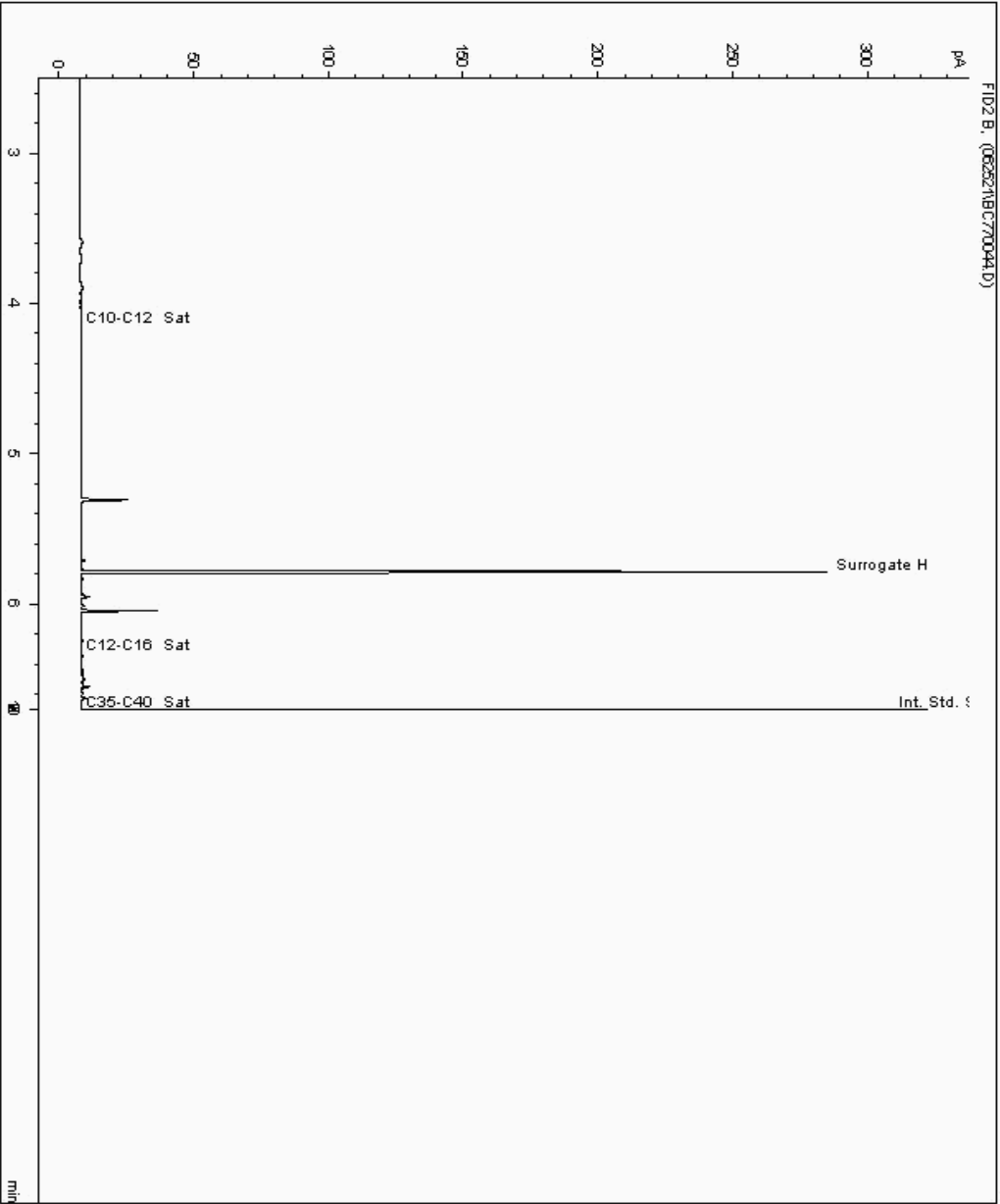
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492902 Depth : 12.00
Sample ID : BH-PTR-08D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926190-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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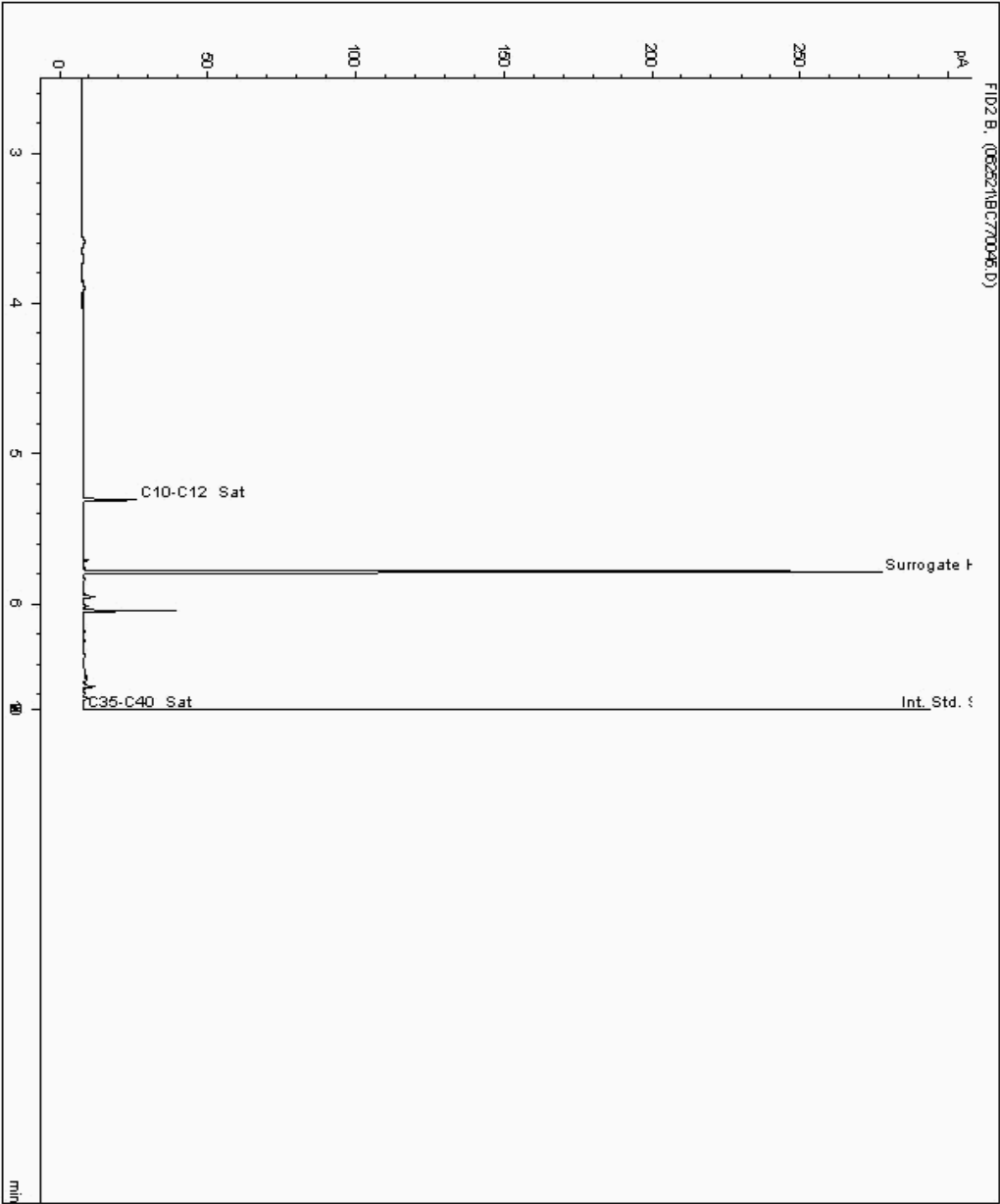
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492909 Depth : 2.00
Sample ID : BH-PTR-08S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926161-
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Units : ppb
Dilution :
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Multiplier : 0.025



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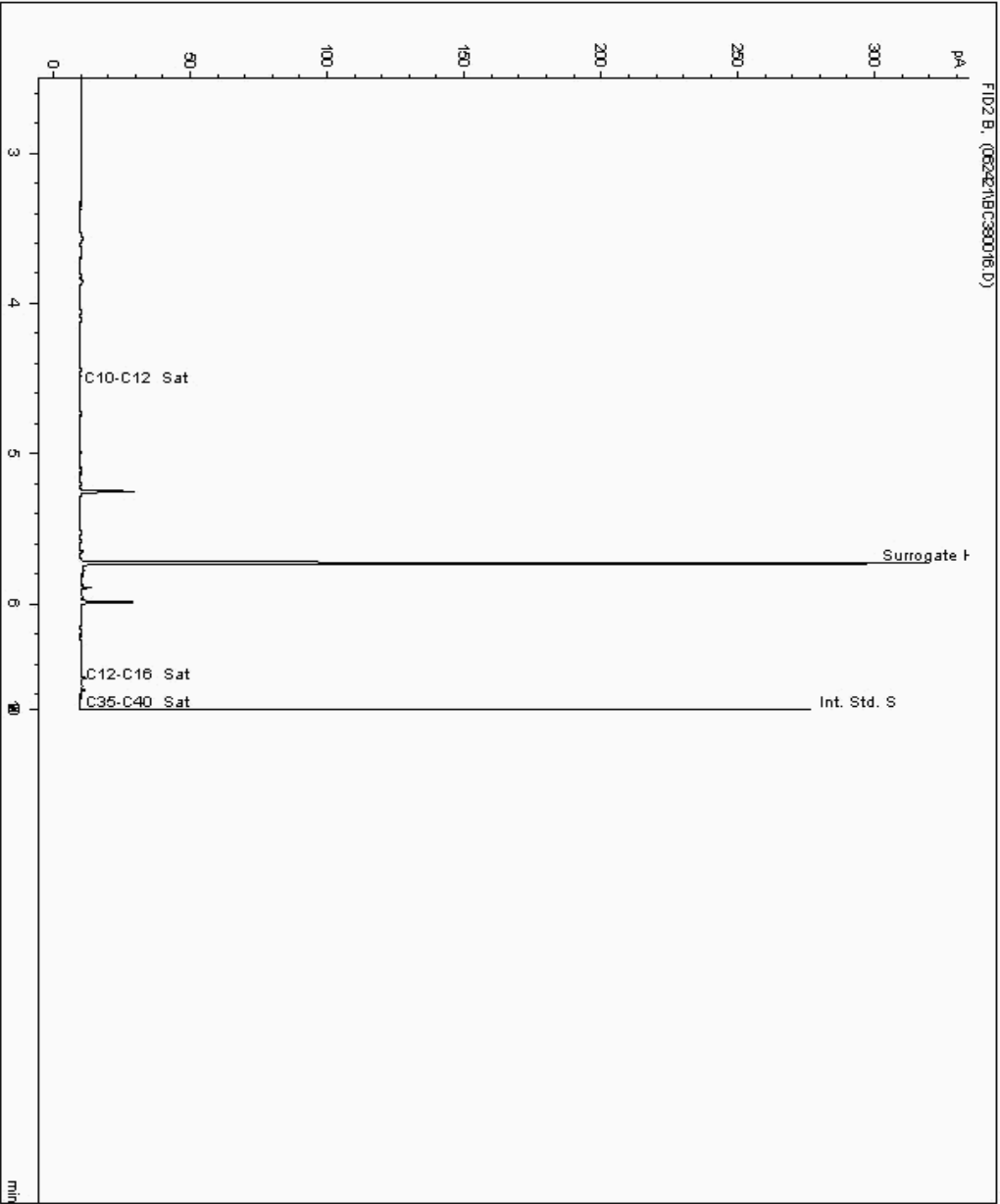
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492912 Depth : 3.50
Sample ID : BH-PTR-19

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926071-
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Units : ppb
Dilution :
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Multiplier : 0.025





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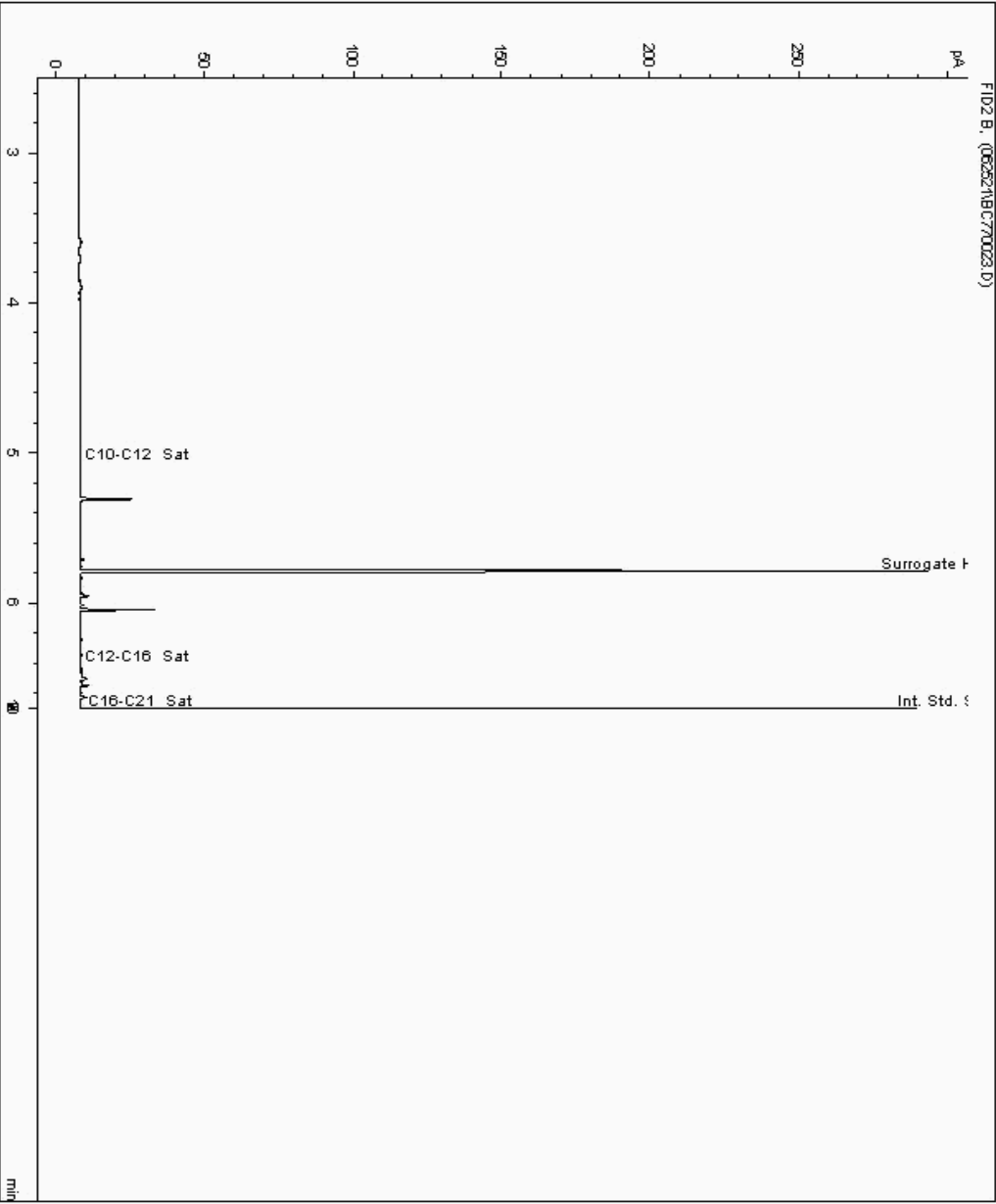
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492914 Depth : 3.00
Sample ID : BH-PTR-10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926122-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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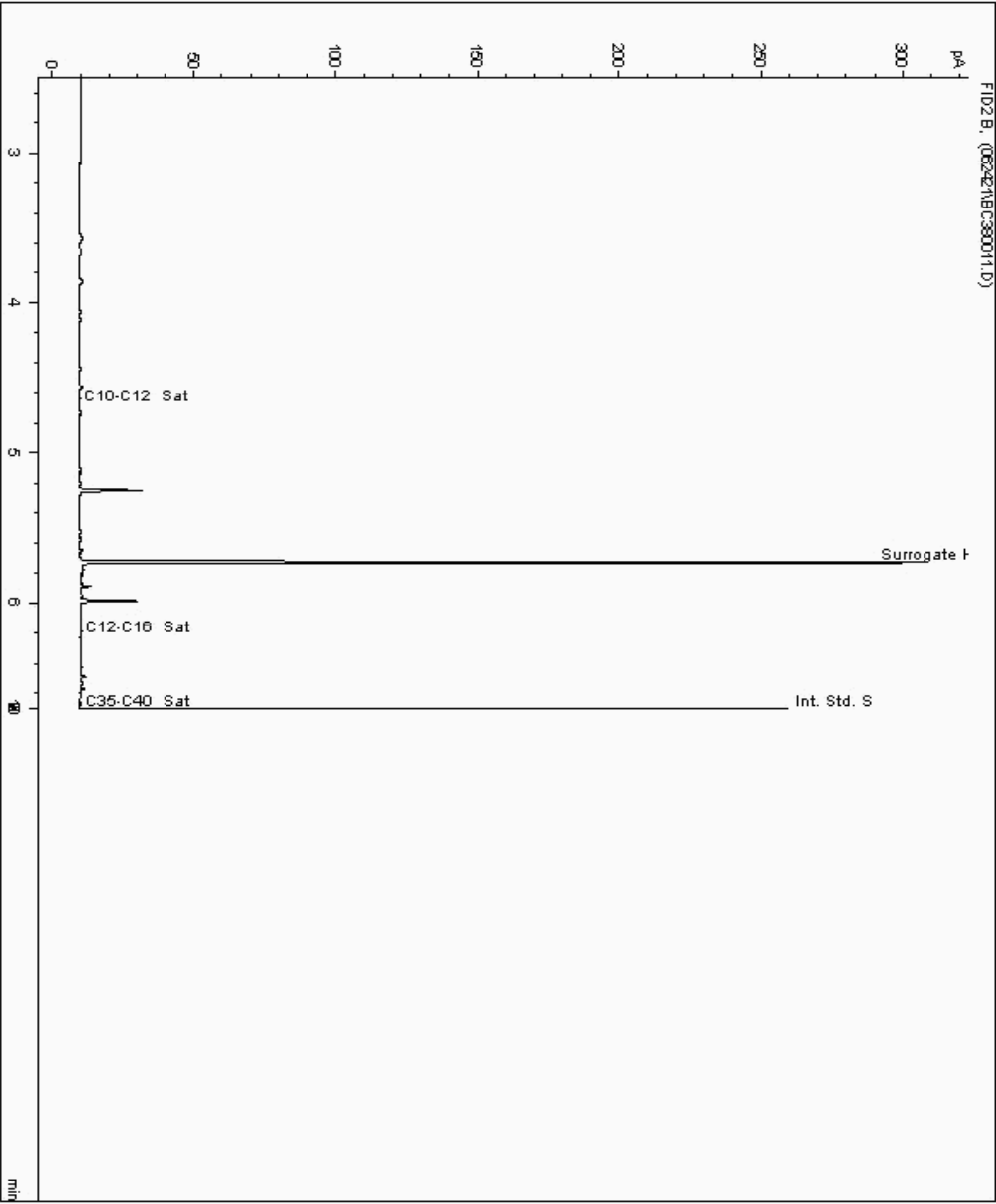
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24492917 Depth : 4.00
Sample ID : BH-PTR-03

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926283-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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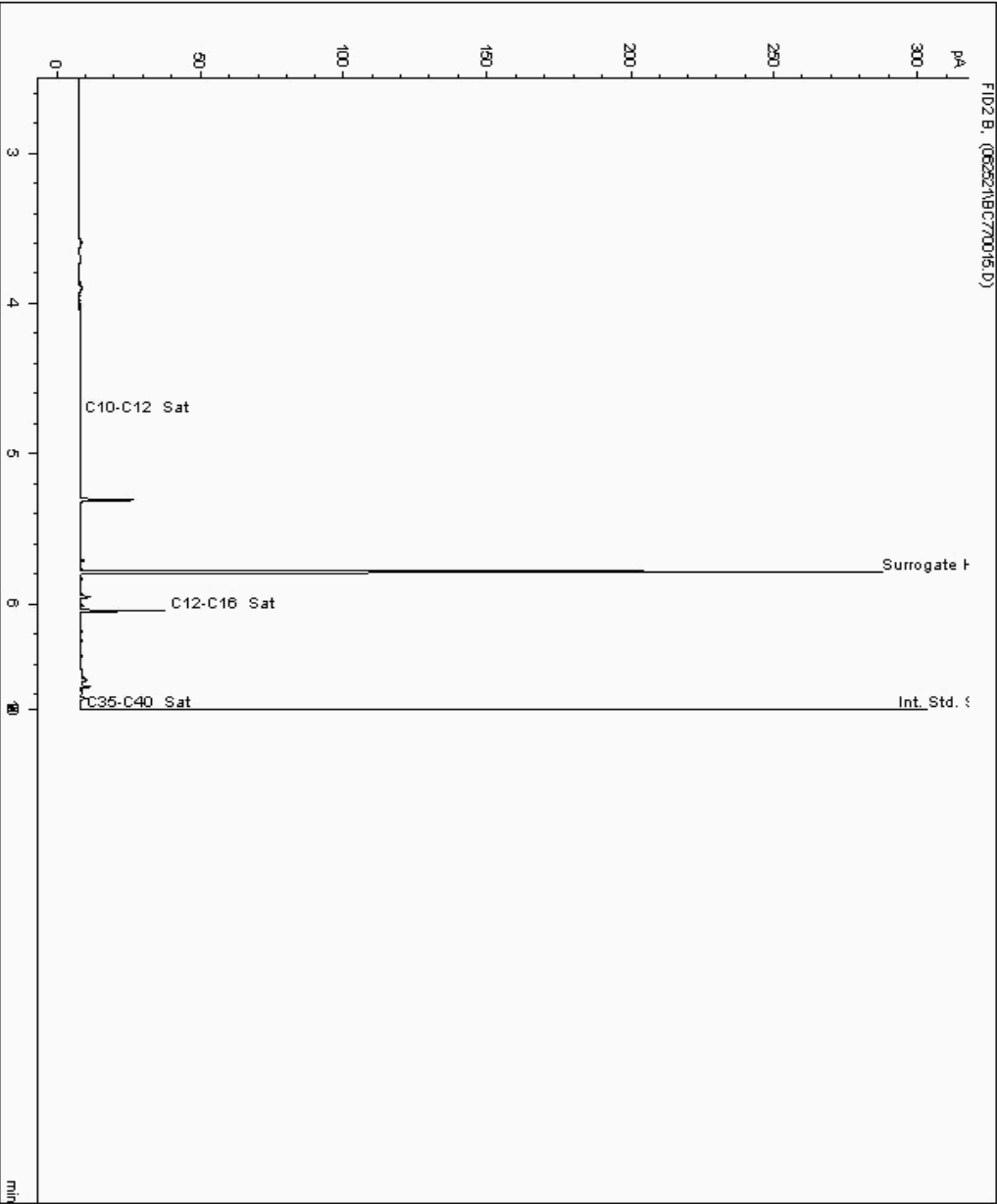
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493023 Depth : 3.00
Sample ID : BH-PTR-35

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22925993-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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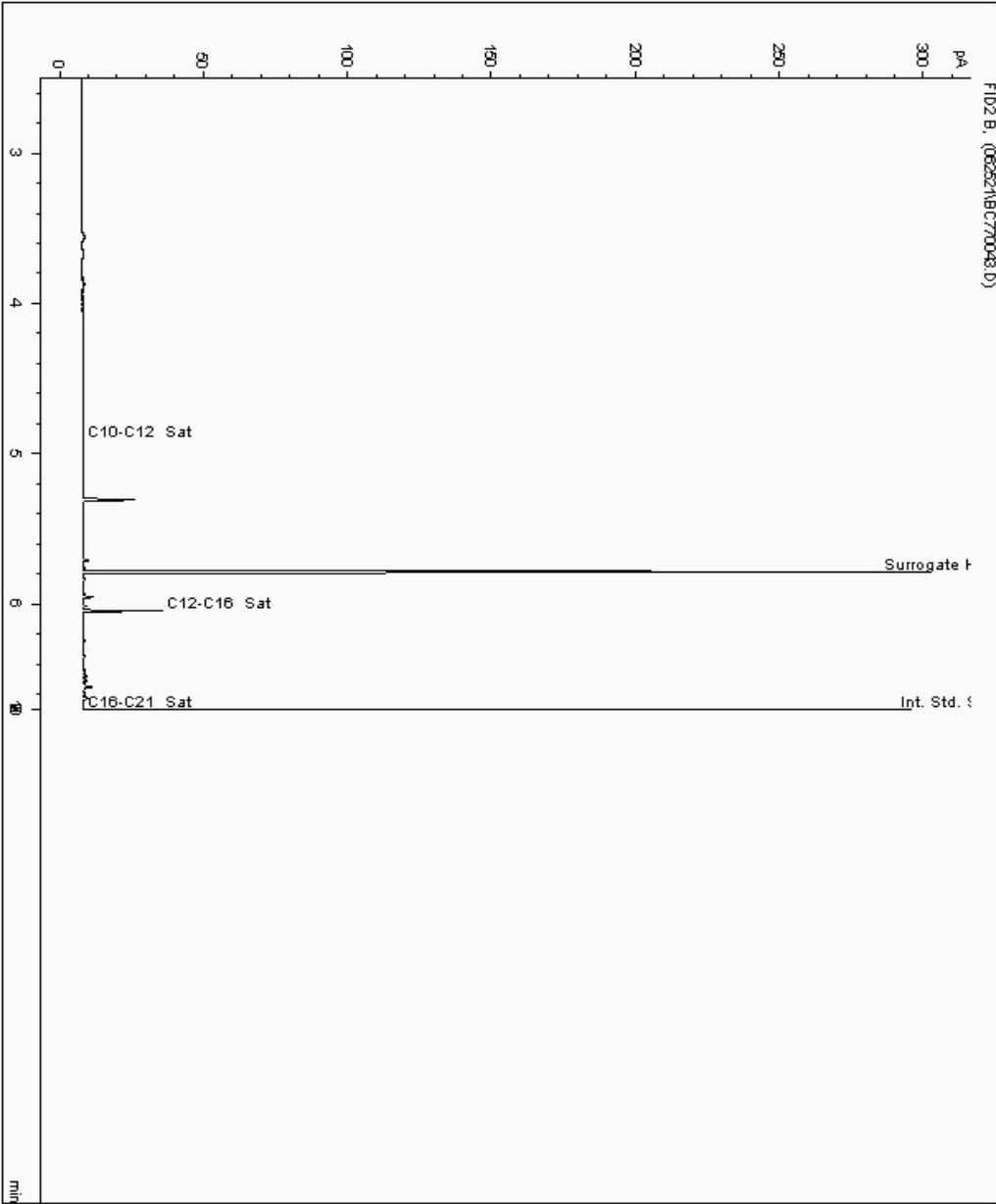
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493026 Depth : 7.50
Sample ID : BH-PTR-14

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926651-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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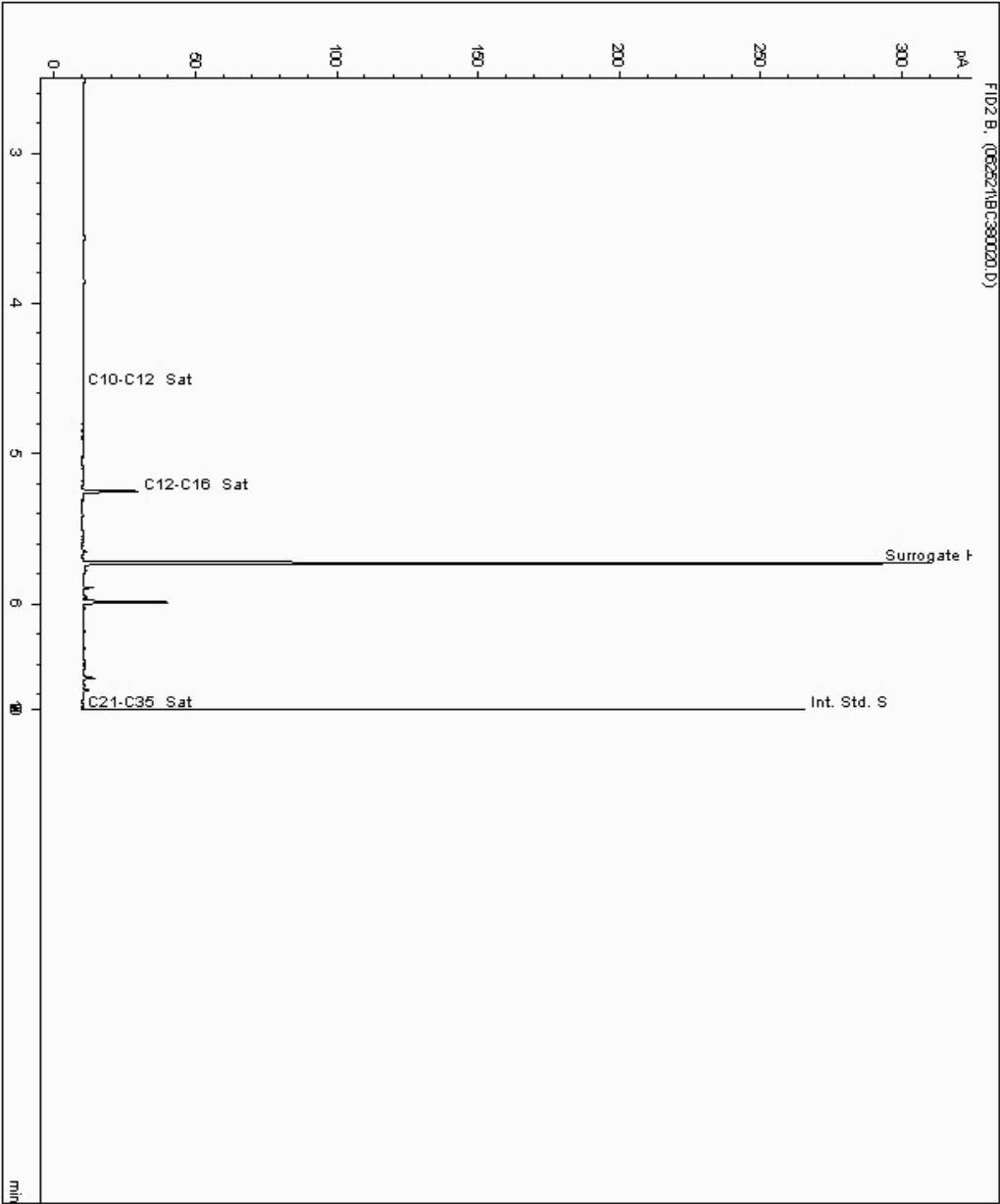
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493028 Depth : 7.00
Sample ID : BH-PTR-43D

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926583-
Date Acquired : 25/06/21 17:48:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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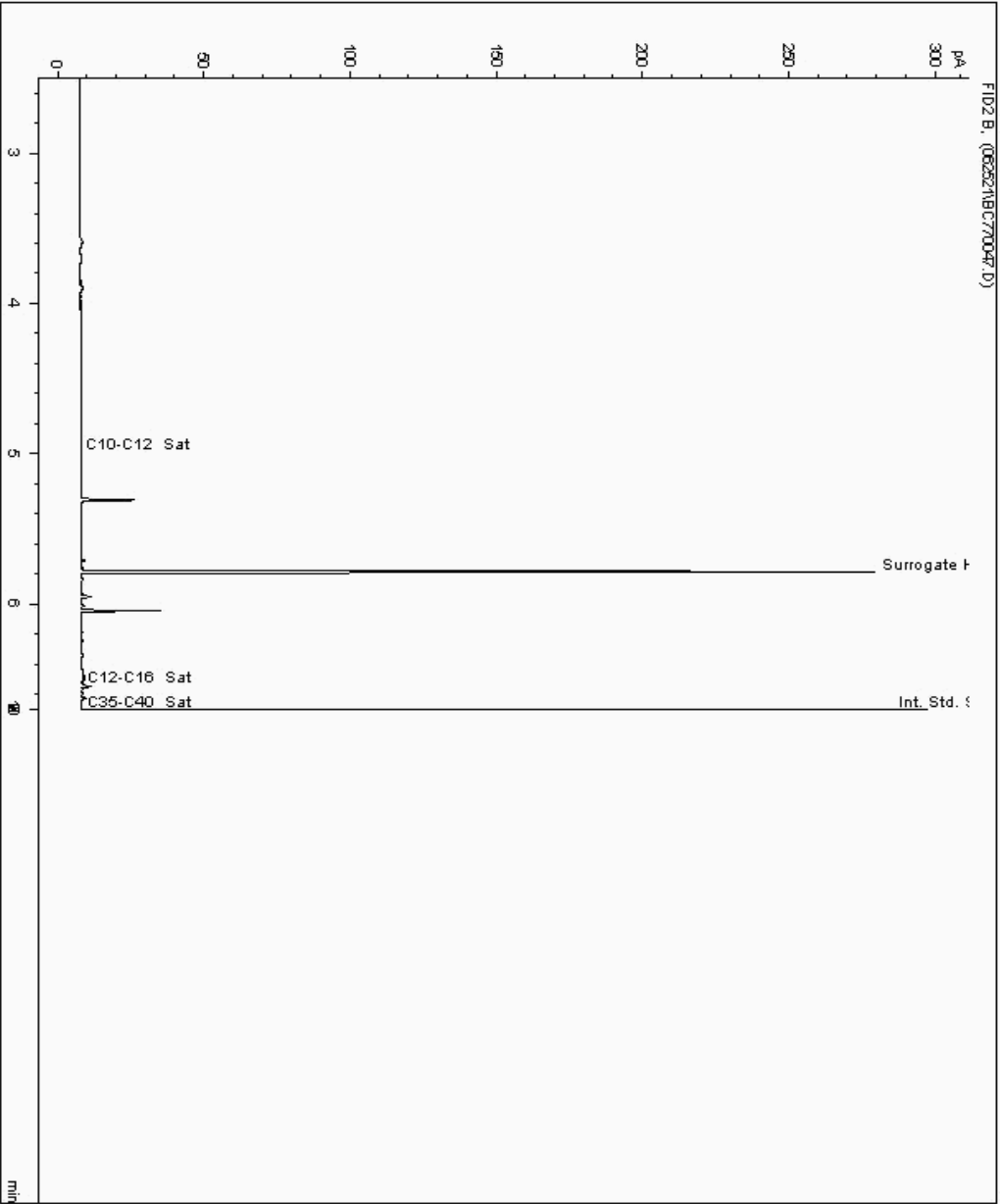
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493031 Depth : 25.00
Sample ID : BH-PTR-33D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926023-
Date Acquired : 6/26/2021 5:13:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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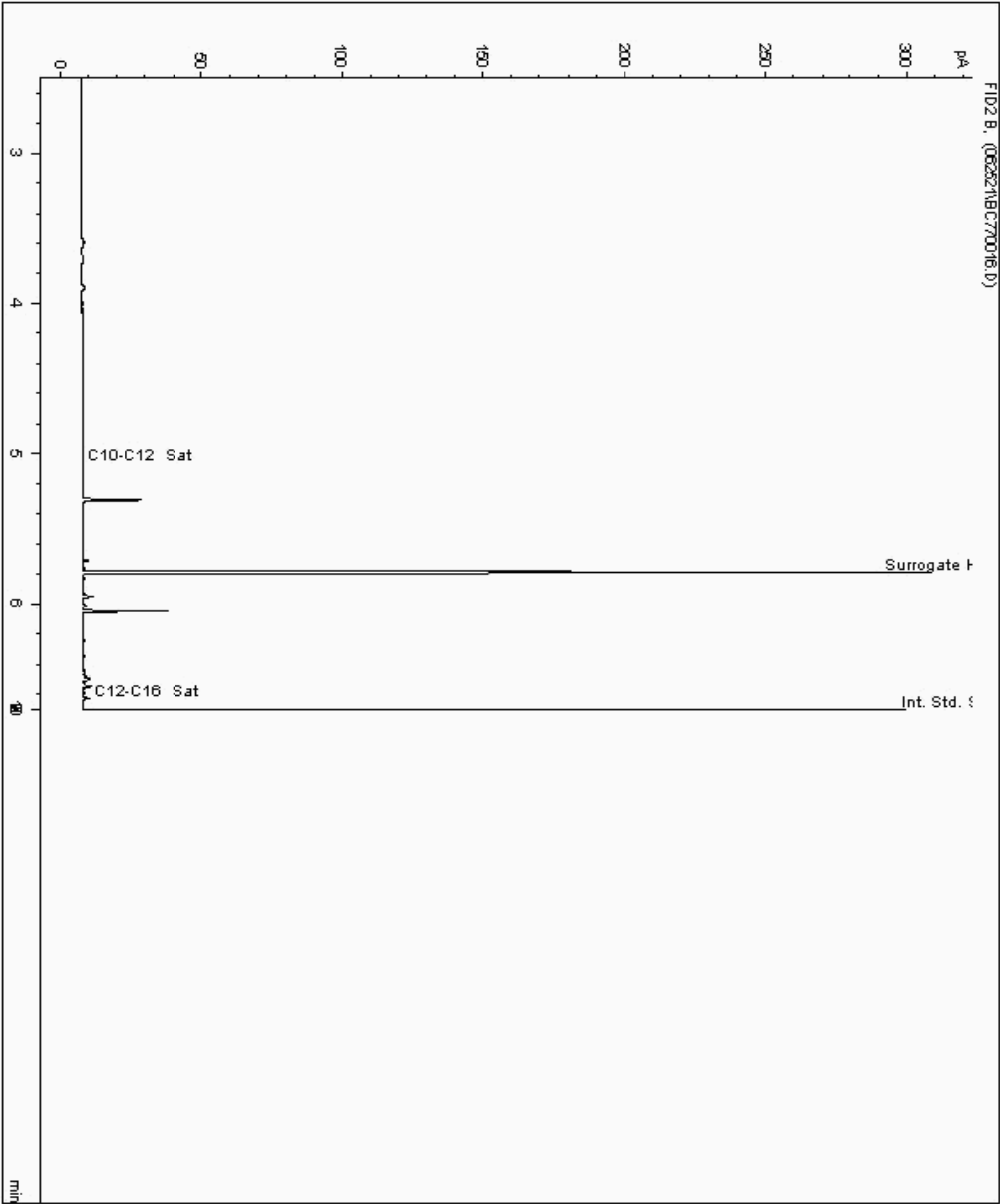
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493043 Depth : 2.75
Sample ID : BH-PTR-33S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926046-
Date Acquired : 6/25/2021 6:50:34 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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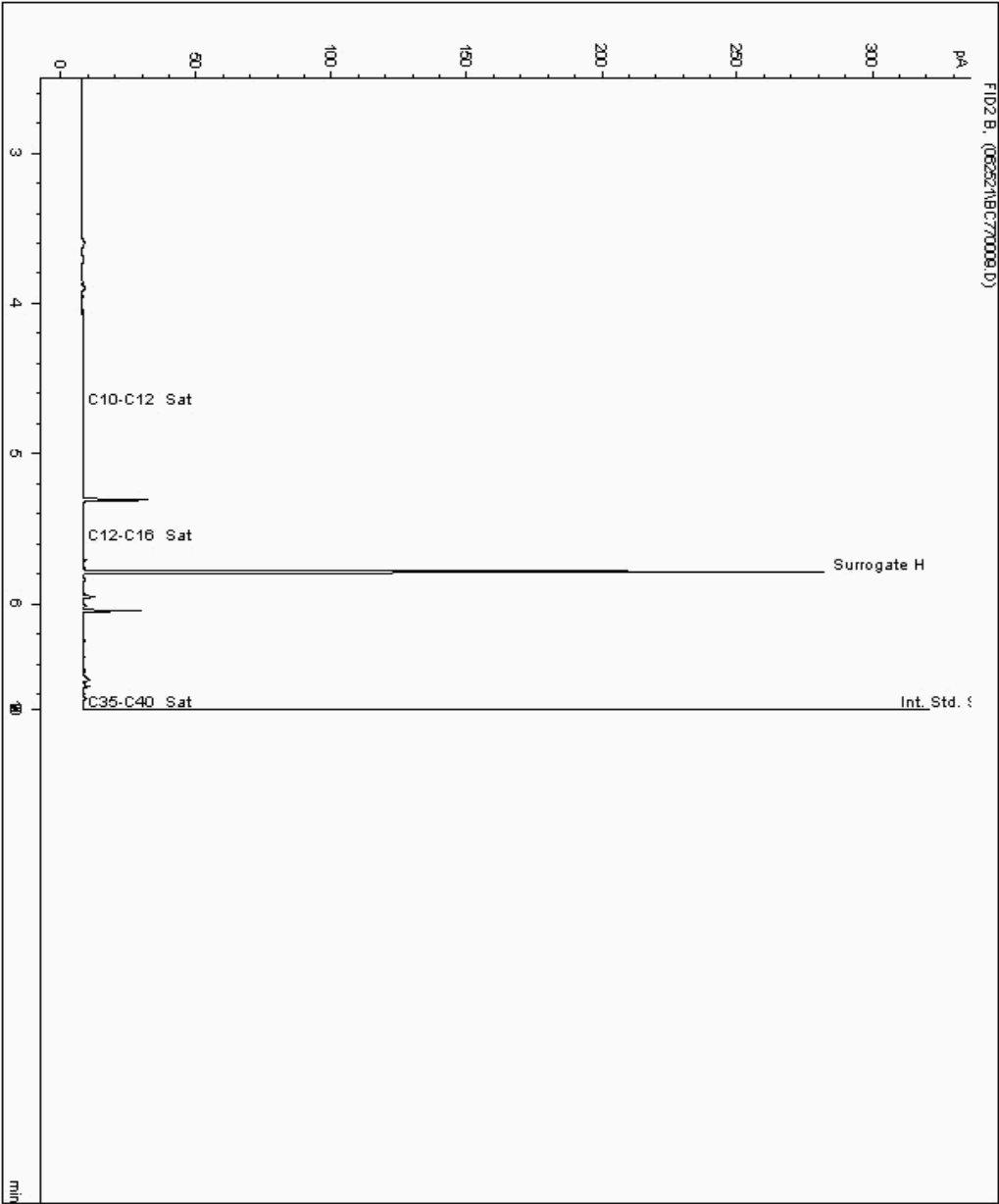
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493054 Depth : 13.00
Sample ID : BH-PTR-39

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926700-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.027





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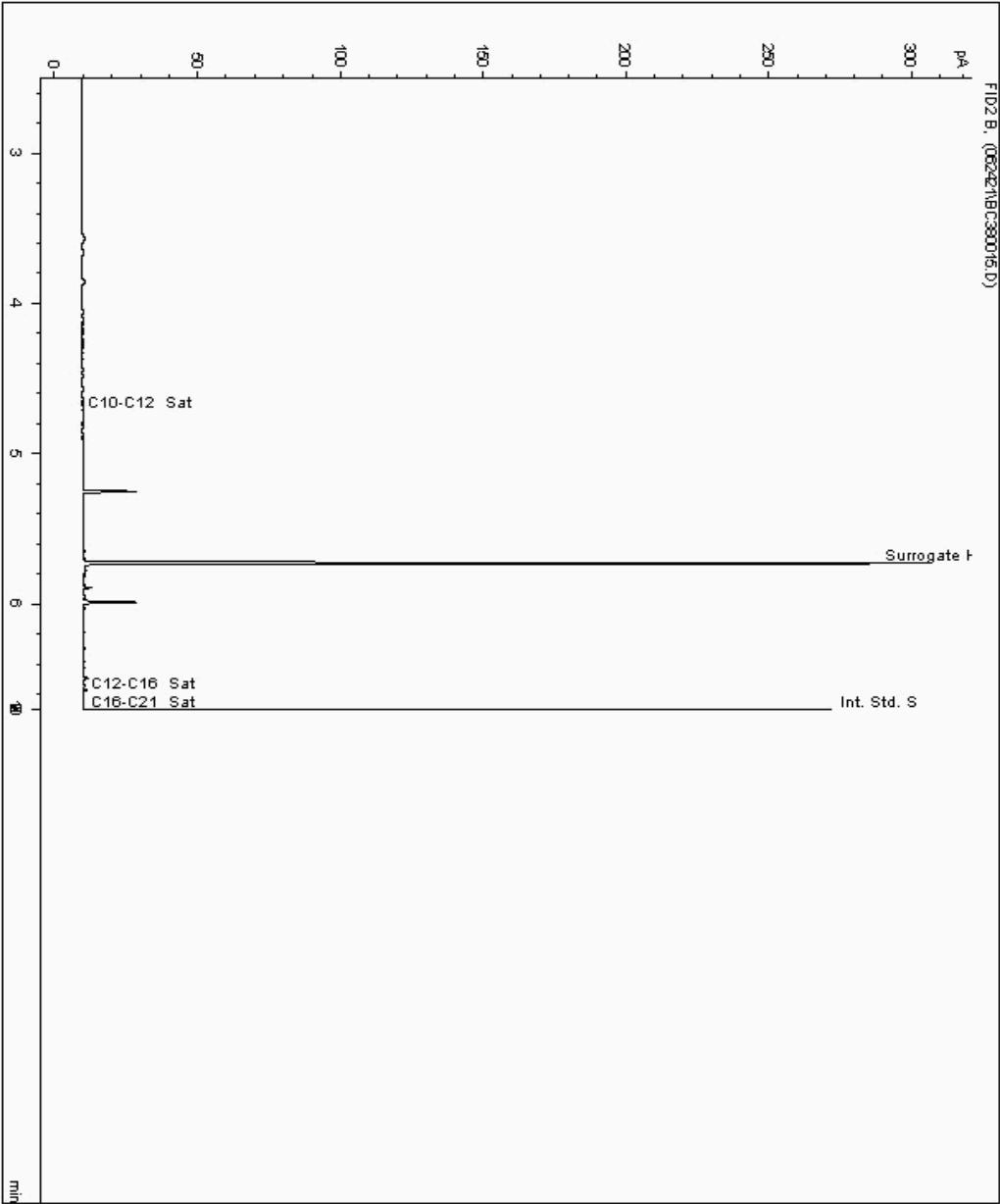
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24493072 Depth : 2.30
Sample ID : BH-PTR-36

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22925970-
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Units : ppb
Dilution :
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Multiplier : 0.027



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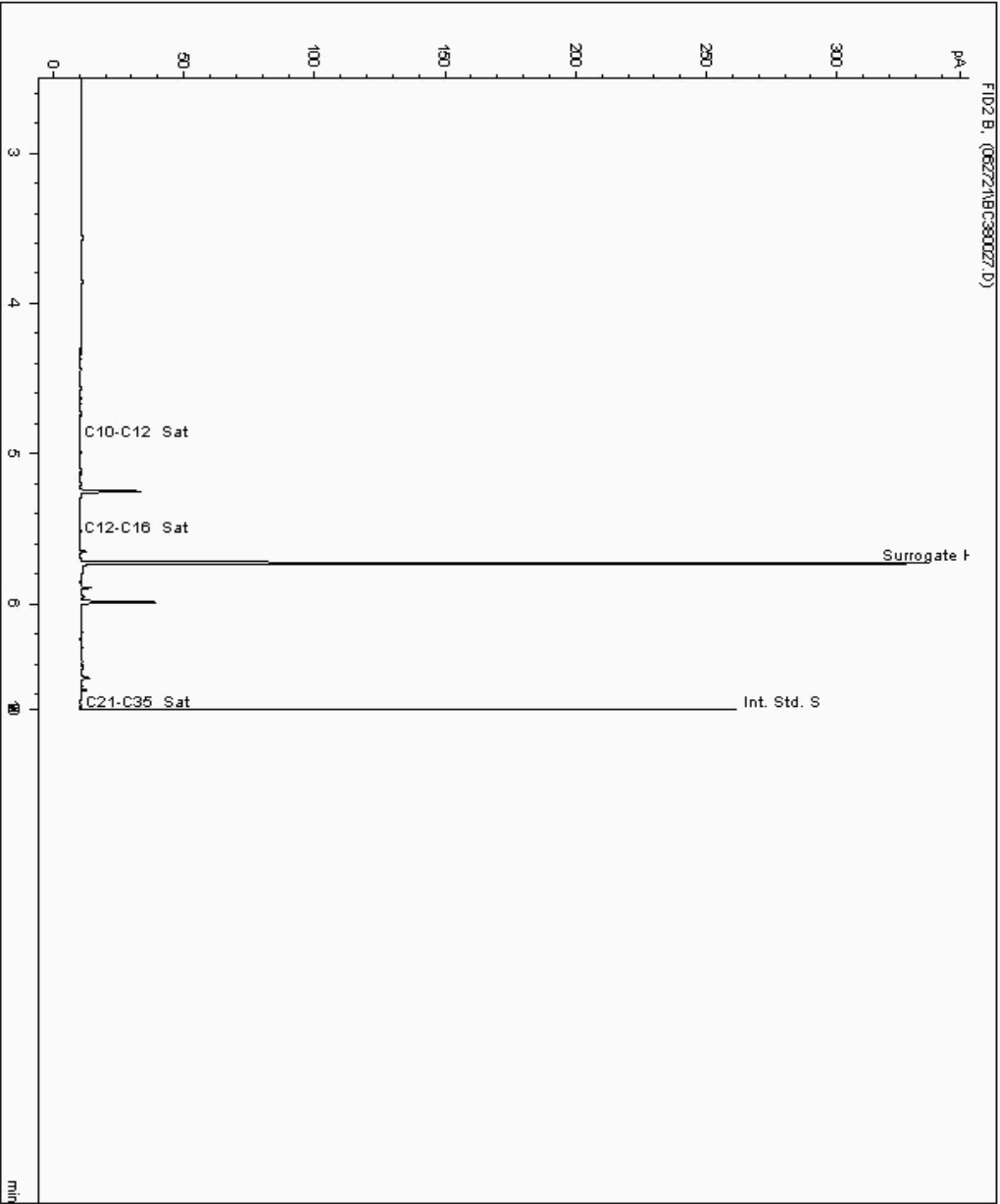
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Chromatogram

Analysis: EPH CWG (Aliphatic) Aqueous GC (W) Sample No : 24521605 Depth : 8.50
Sample ID : BH-PTR-12

Speciated TPH - SATS (C12 - C40)

Sample Identity: 22949679-
Date Acquired : 28/06/21 21:12:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.027





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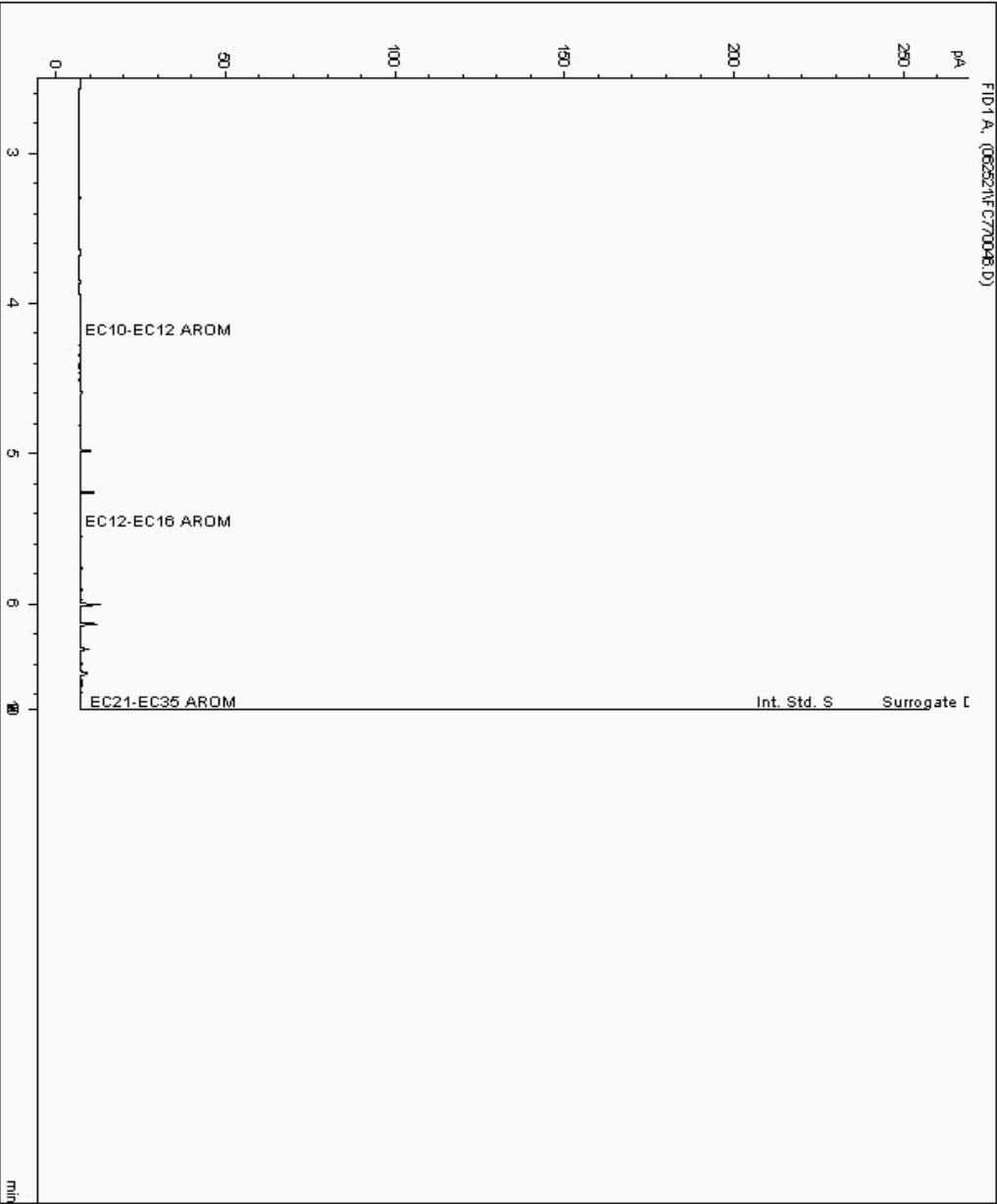
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492222 Depth : 7.50
Sample ID : BH-PTR-41D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926337-
Date Acquired : 6/26/2021 4:49:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



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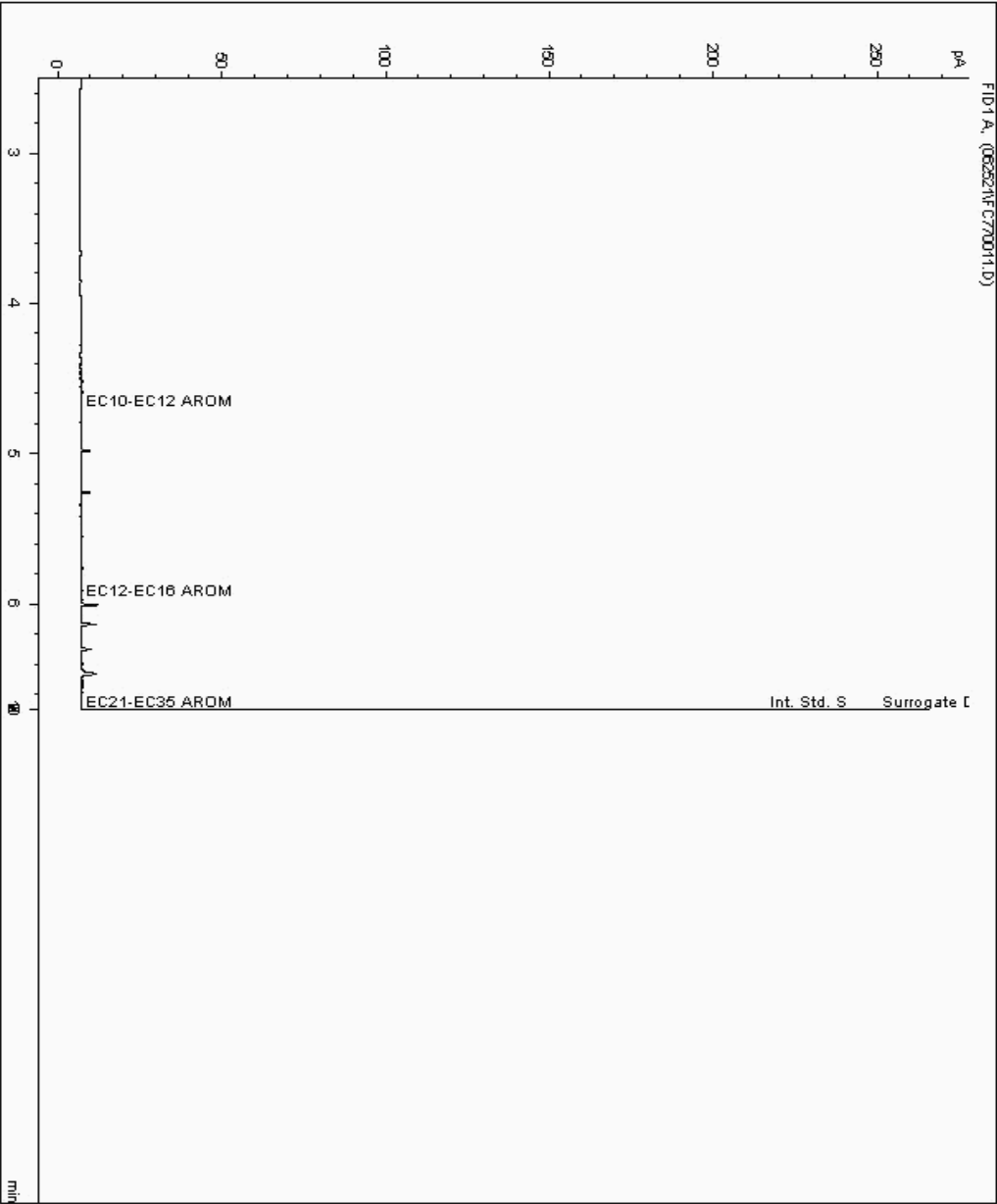
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492234 Depth : 2.10
Sample ID : BH-PTR-41S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926521-
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Multiplier : 0.025





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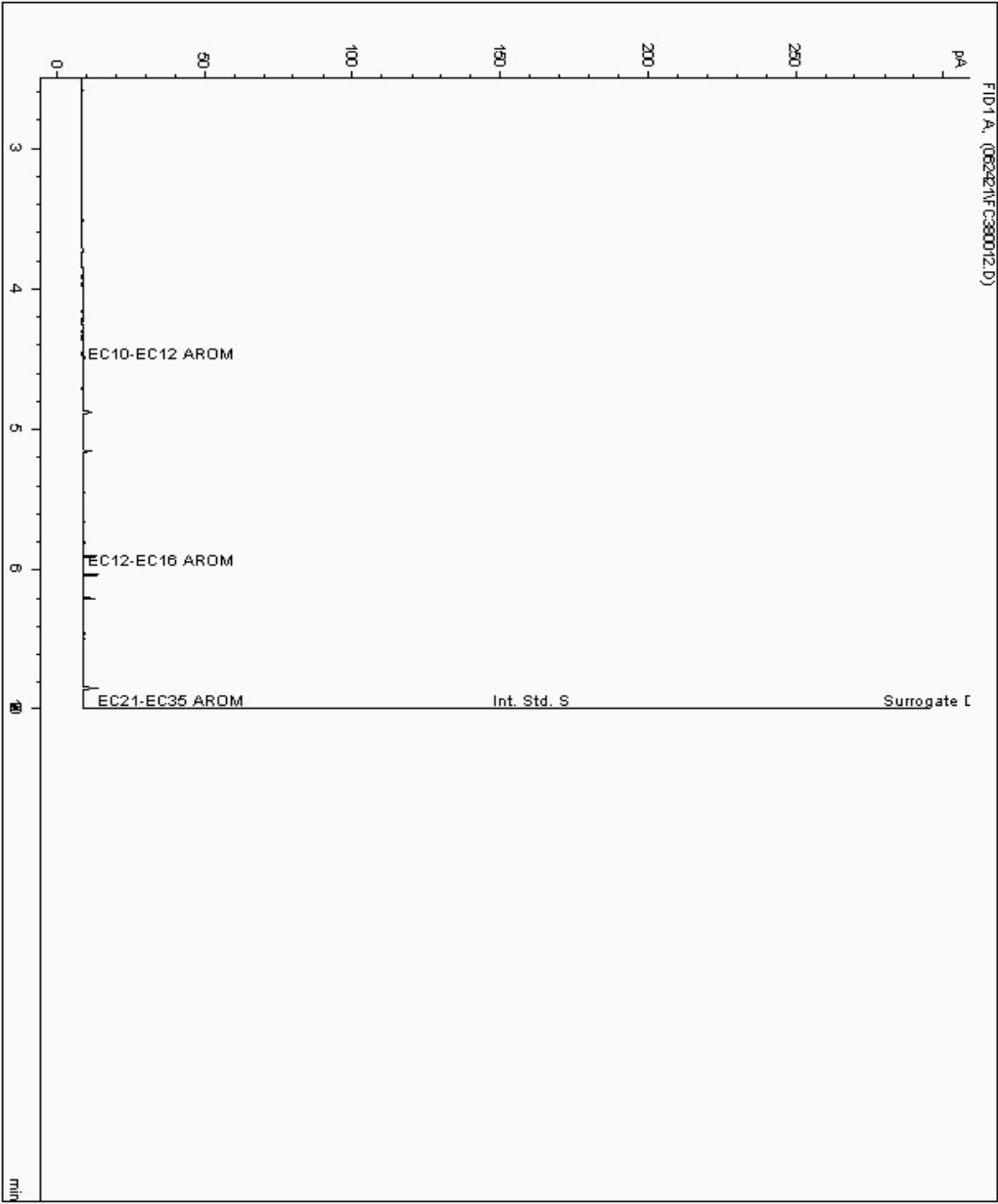
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492252 Depth : 7.45
Sample ID : BH-OBC-06

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22925948-
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Units : ppb
Dilution :
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Multiplier : 0.025



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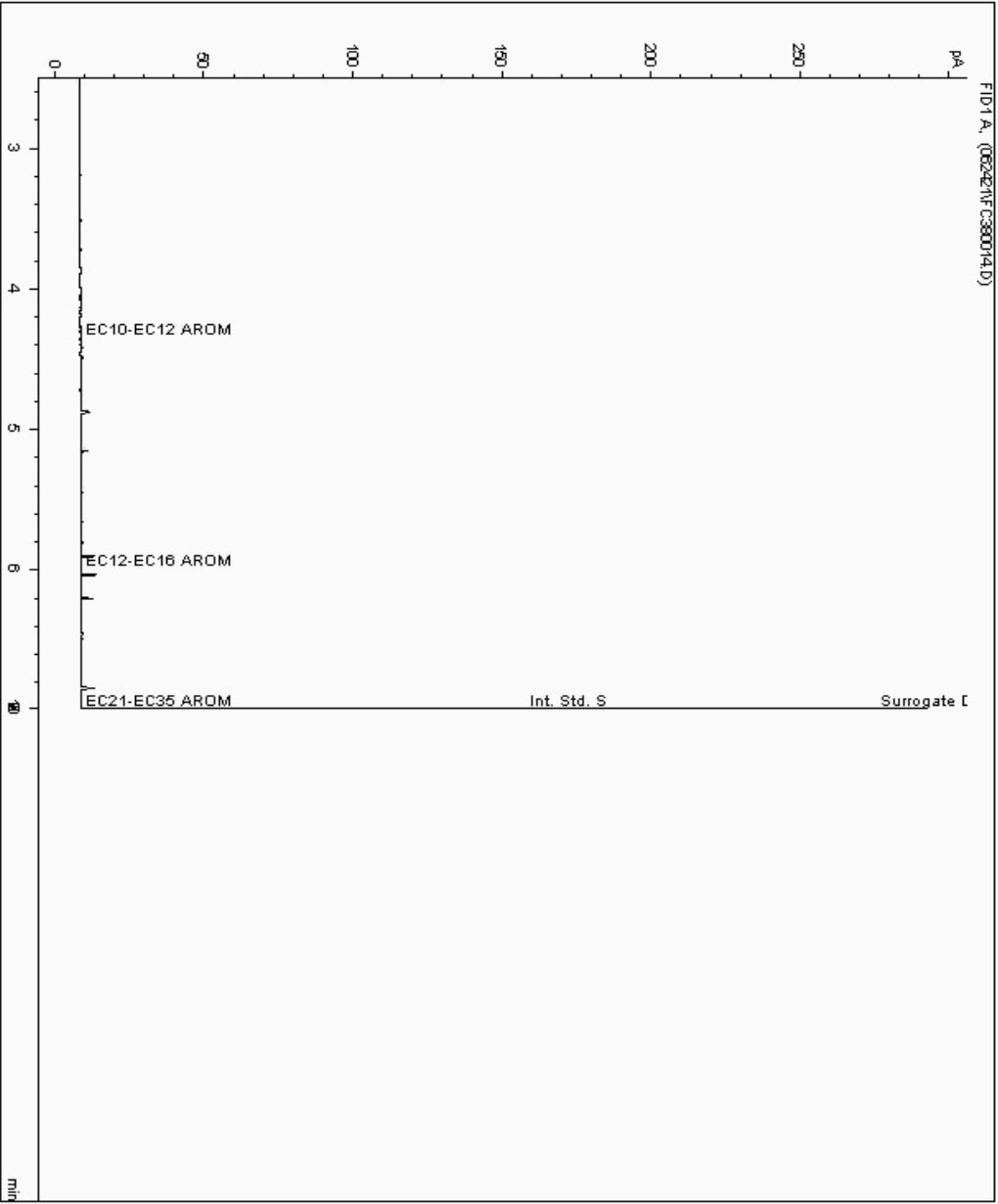
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492262 Depth : 6.75
Sample ID : BH-PTR-42D

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926551-
Date Acquired : 24/06/21 16:43:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





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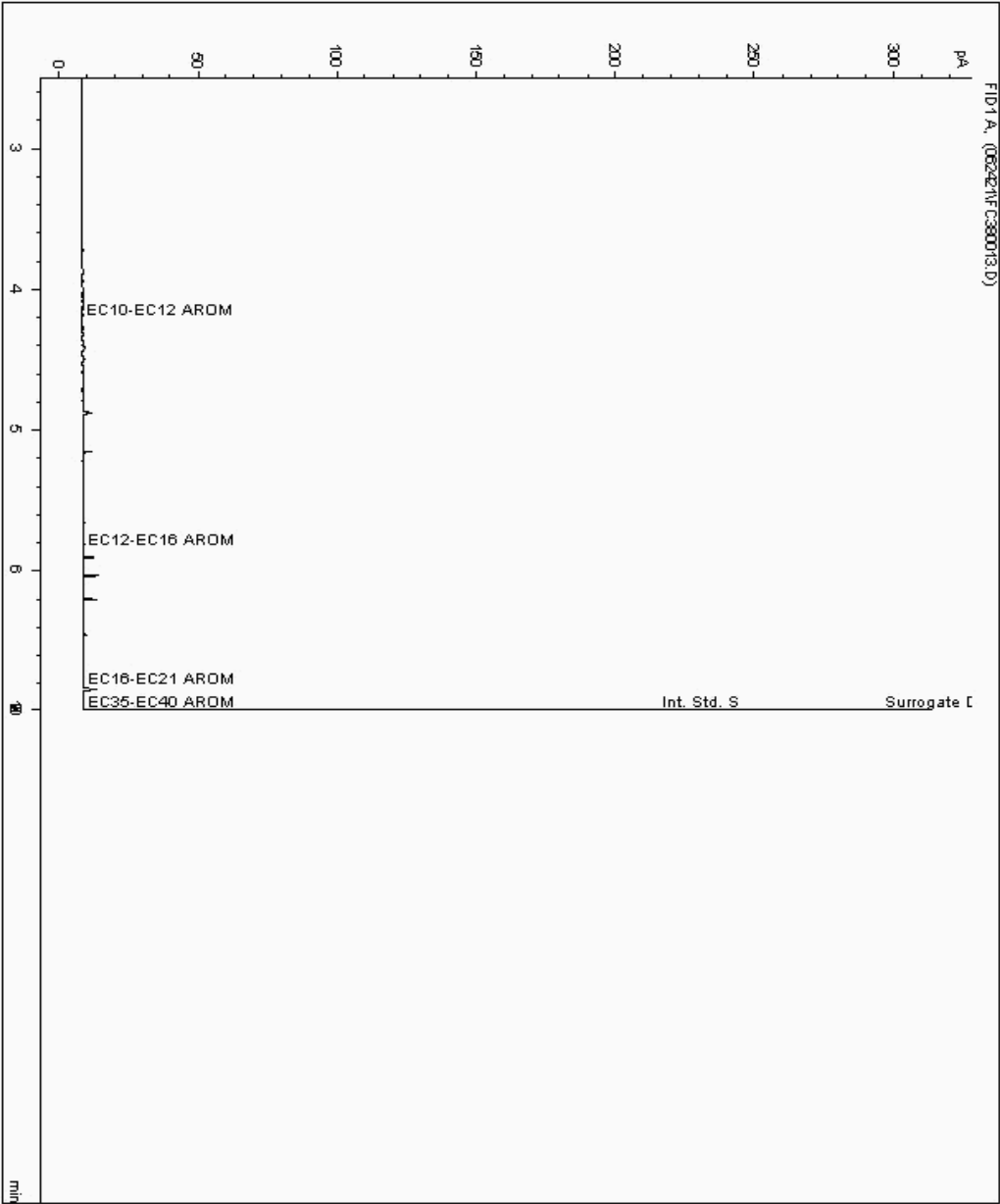
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492276 Depth : 2.50
Sample ID : BH-PTR-43S

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926629-
Date Acquired : 24/06/21 16:20:10 PM
Units : ppb
Dilution :
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Multiplier : 0.025



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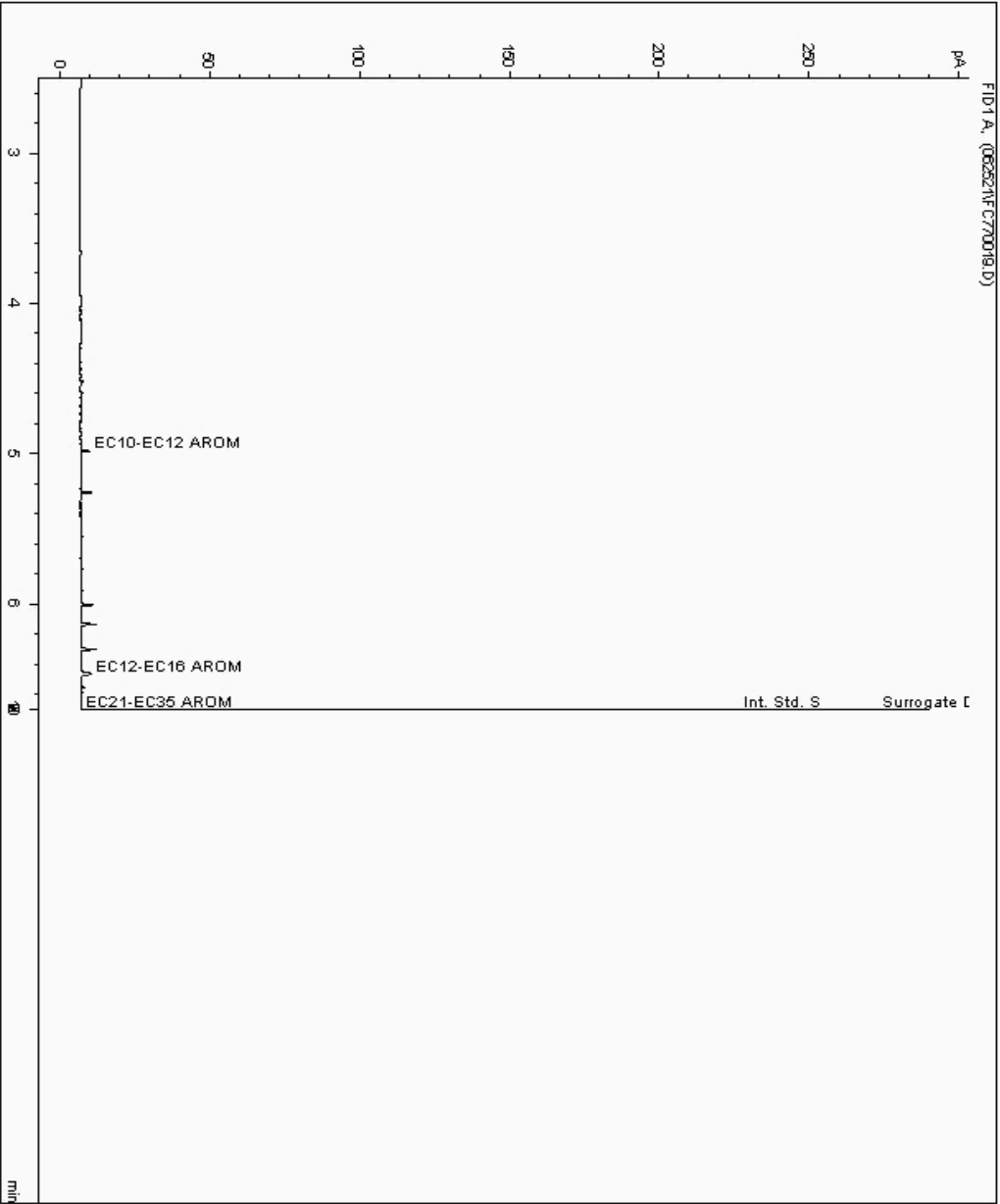
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492510 Depth : 2.50
Sample ID : BH-PTR-04

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926495-
Date Acquired : 6/25/2021 7:59:51 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

Validated

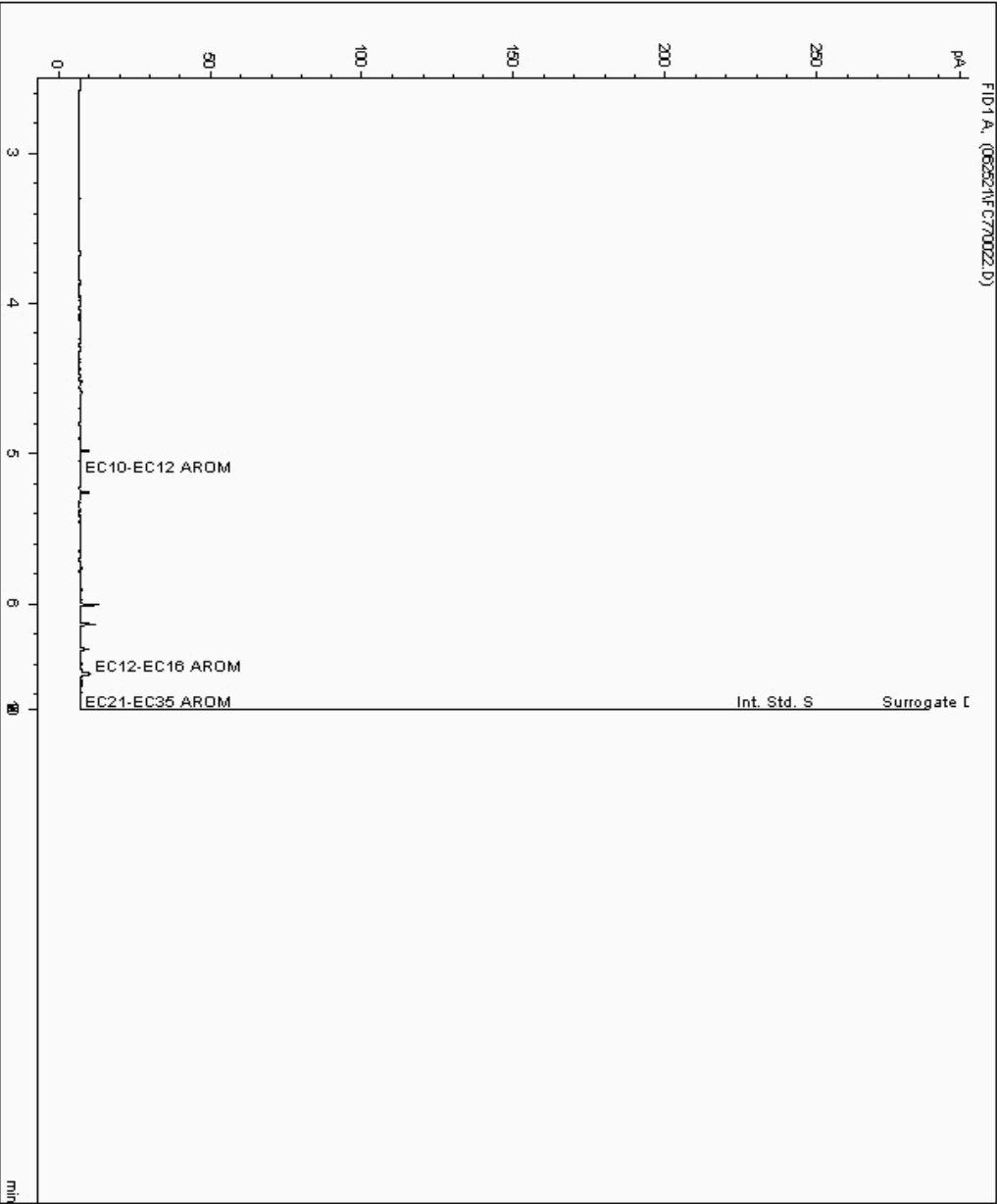
SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492582 Depth : 7.25
Sample ID : BH-PTR-02D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926441-
Date Acquired : 6/25/2021 9:09:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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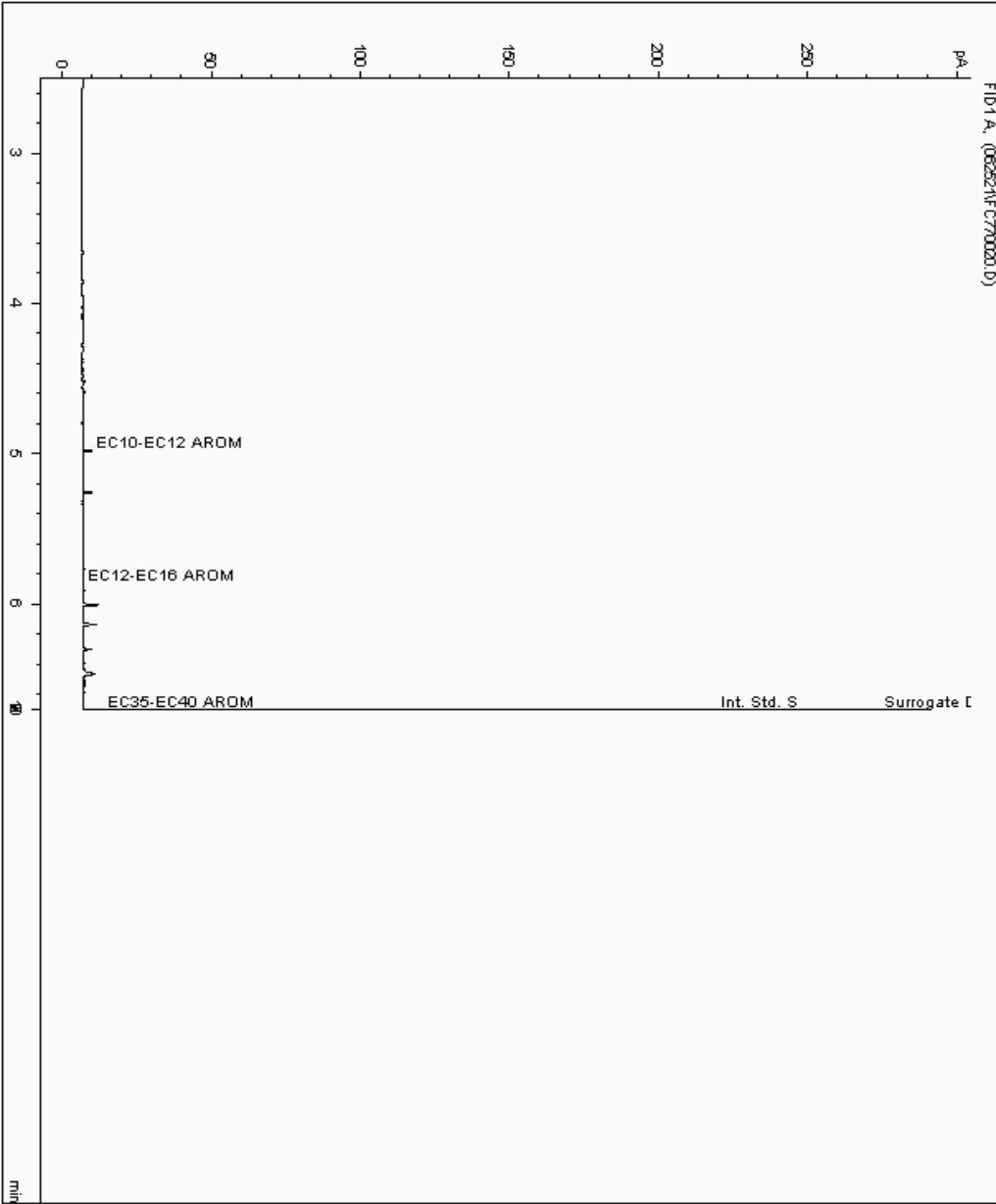
SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492590 Depth : 12.00
Sample ID : BH-PTR-07

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926245-
Date Acquired : 6/25/2021 8:23:09 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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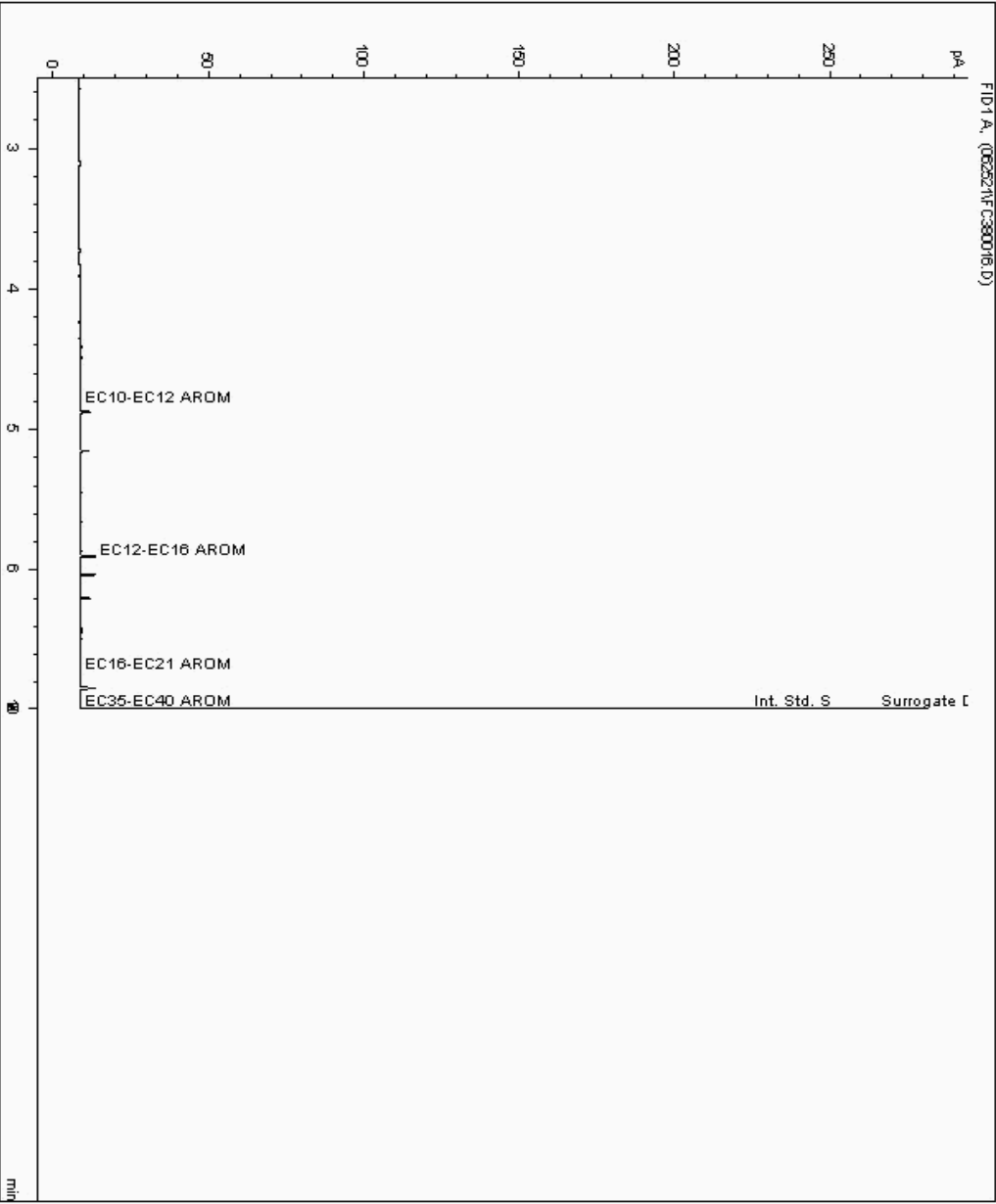
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492598 Depth : 1.70
Sample ID : BH-PTR-02S

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926387-
Date Acquired : 25/06/21 16:16:34 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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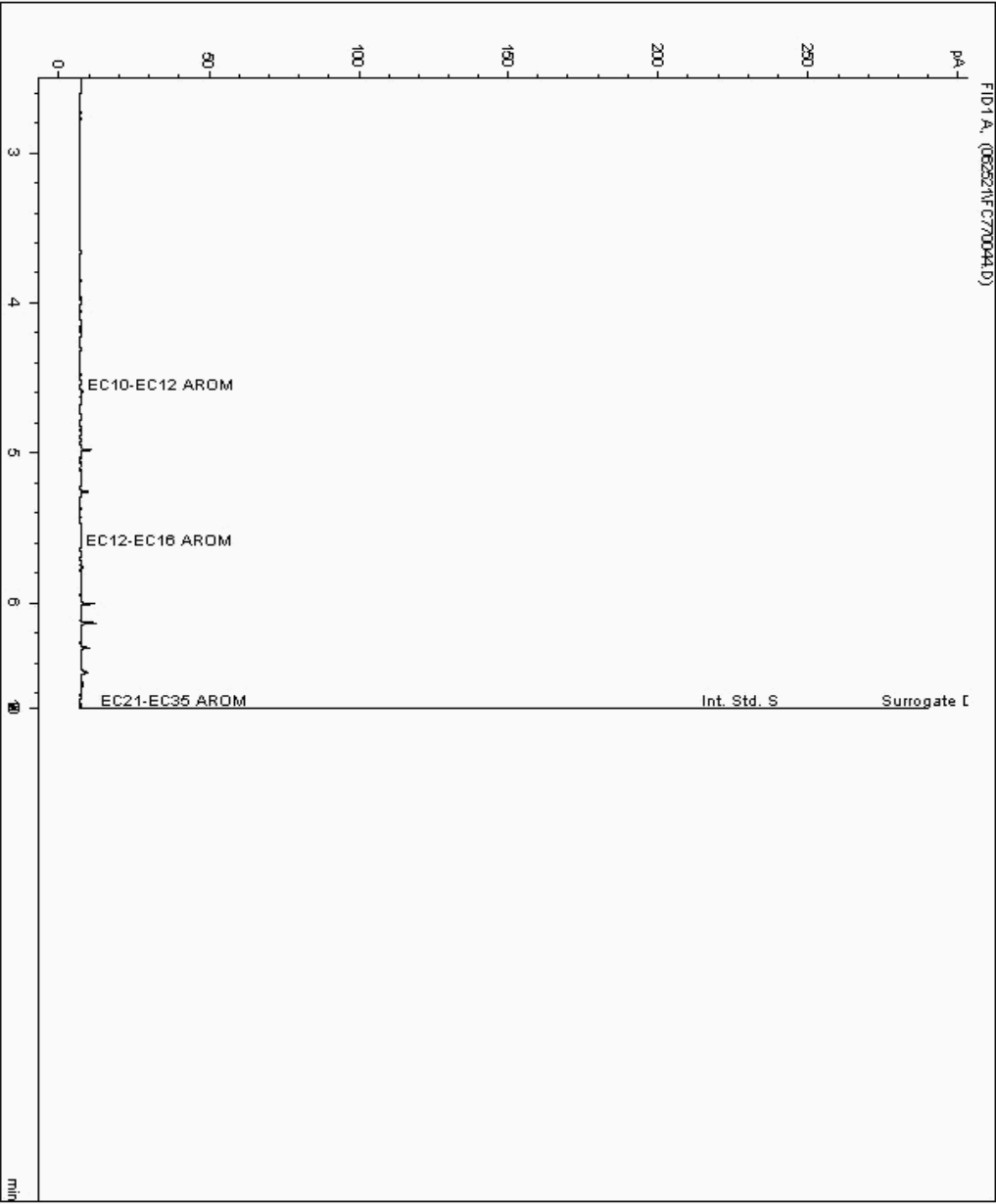
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492902 Depth : 12.00
Sample ID : BH-PTR-08D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926191-
Date Acquired : 6/26/2021 4:03:26 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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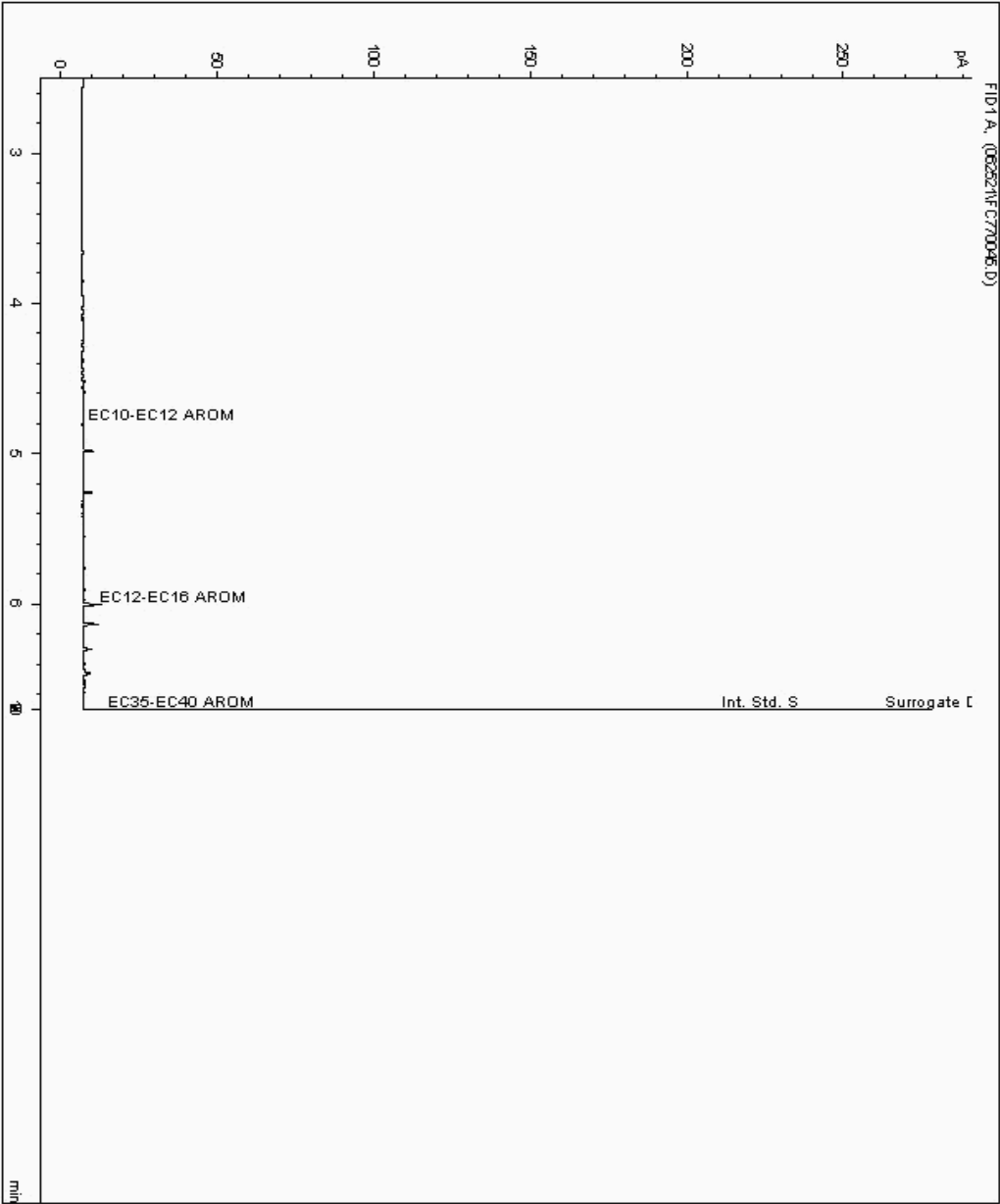
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492909 Depth : 2.00
Sample ID : BH-PTR-08S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926162-
Date Acquired : 6/26/2021 4:26:40 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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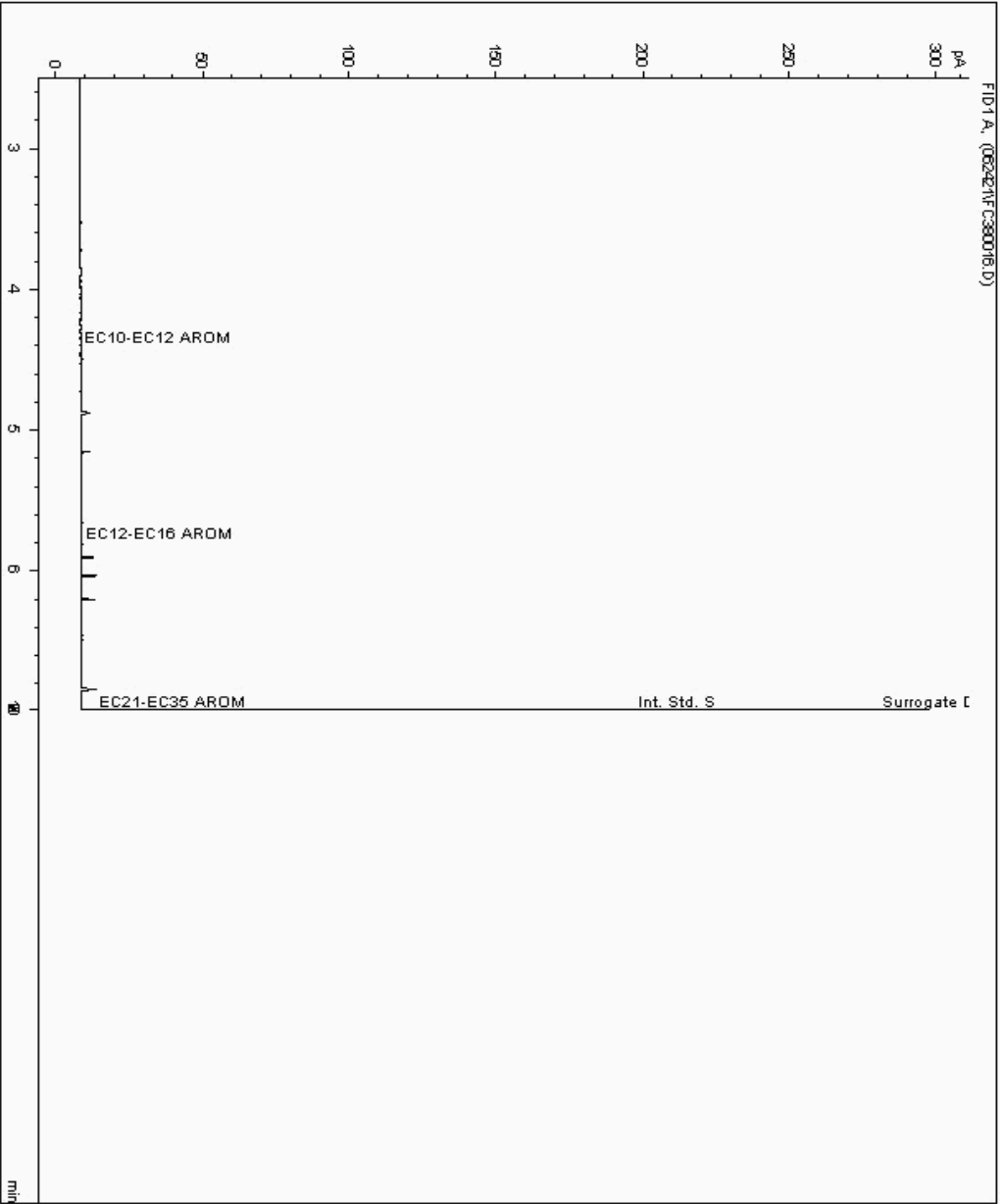
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492912 Depth : 3.50
Sample ID : BH-PTR-19

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926072-
Date Acquired : 24/06/21 17:29:46 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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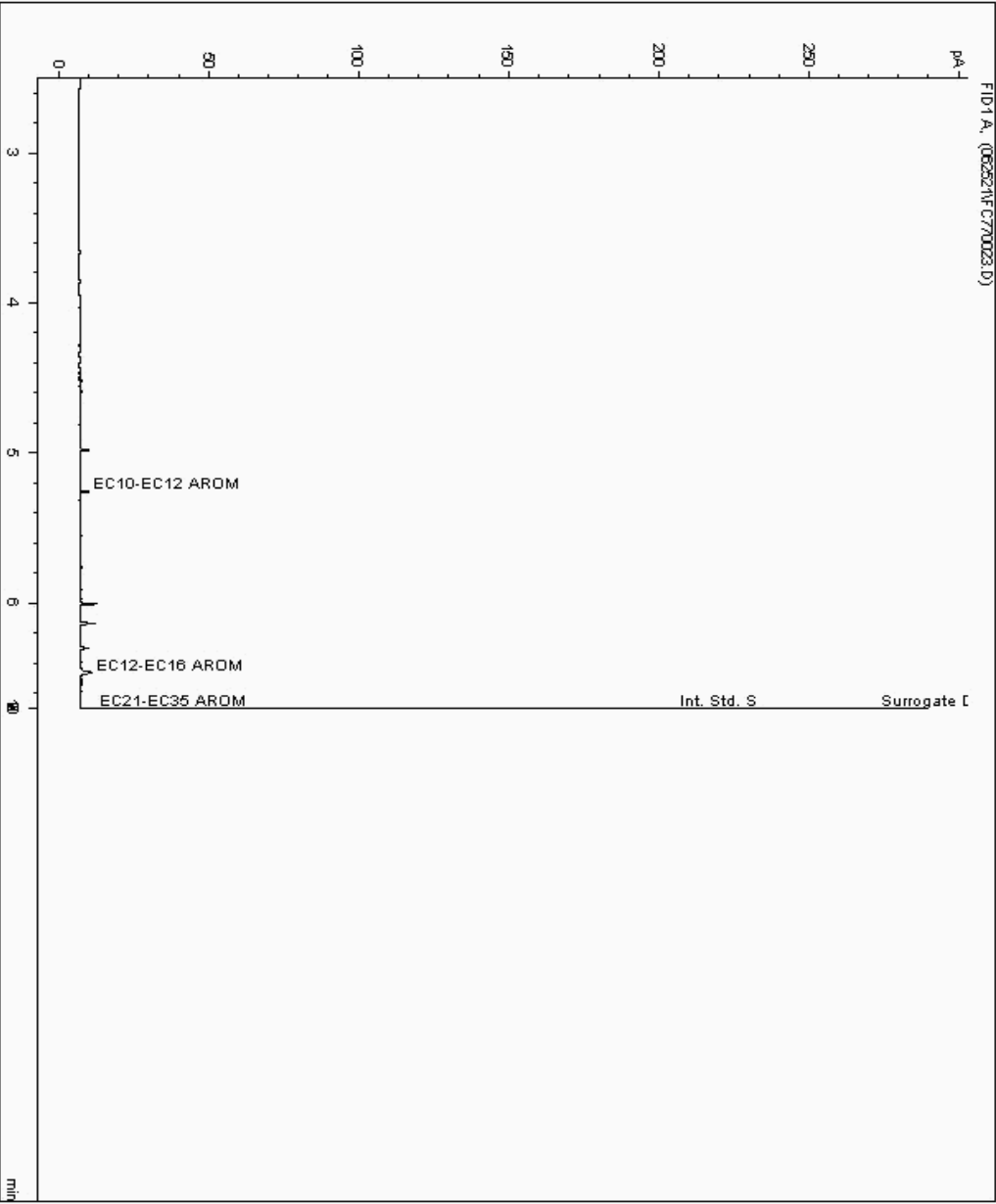
SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492914 Depth : 3.00
Sample ID : BH-PTR-10

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926123-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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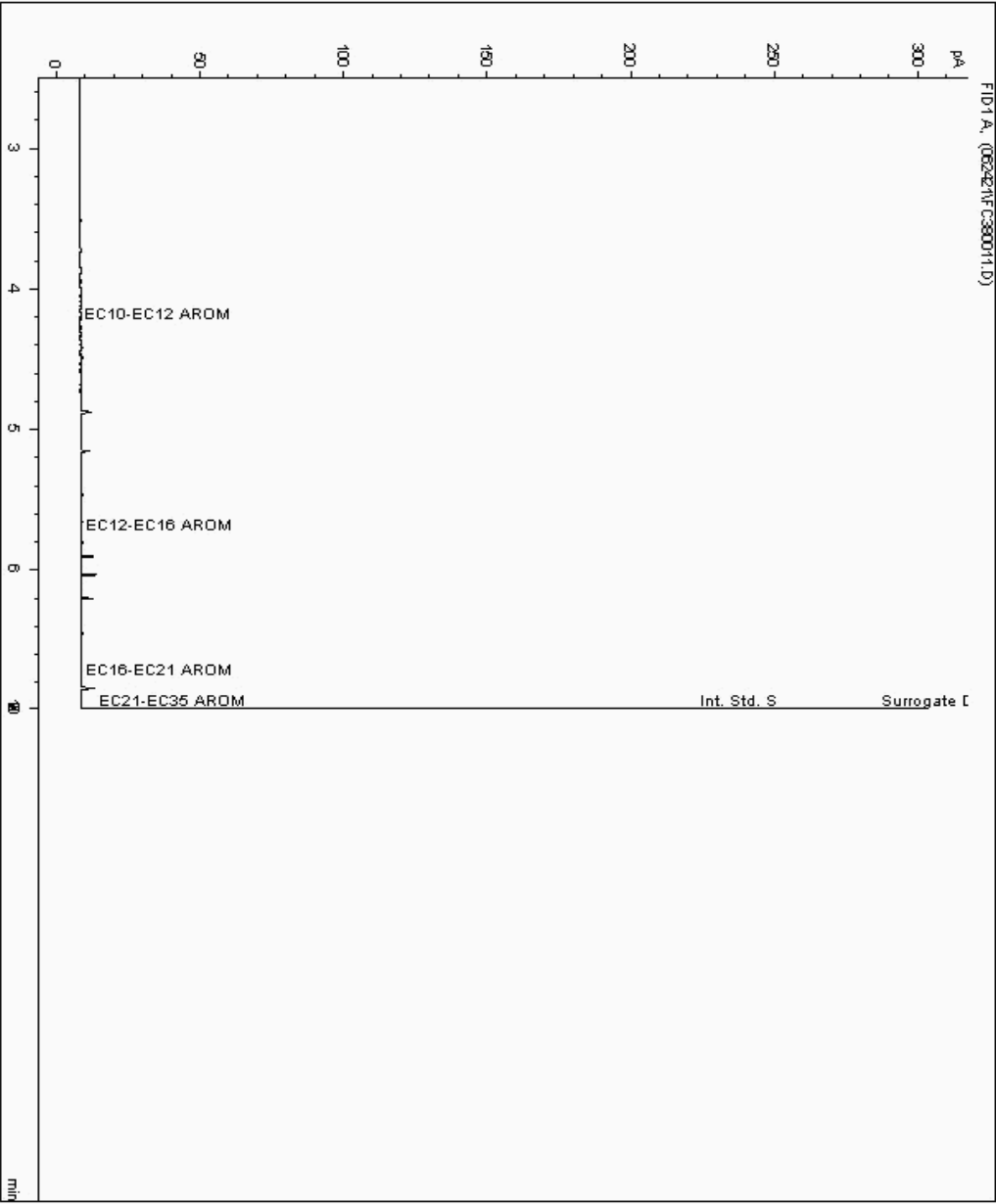
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24492917 Depth : 4.00
Sample ID : BH-PTR-03

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926284-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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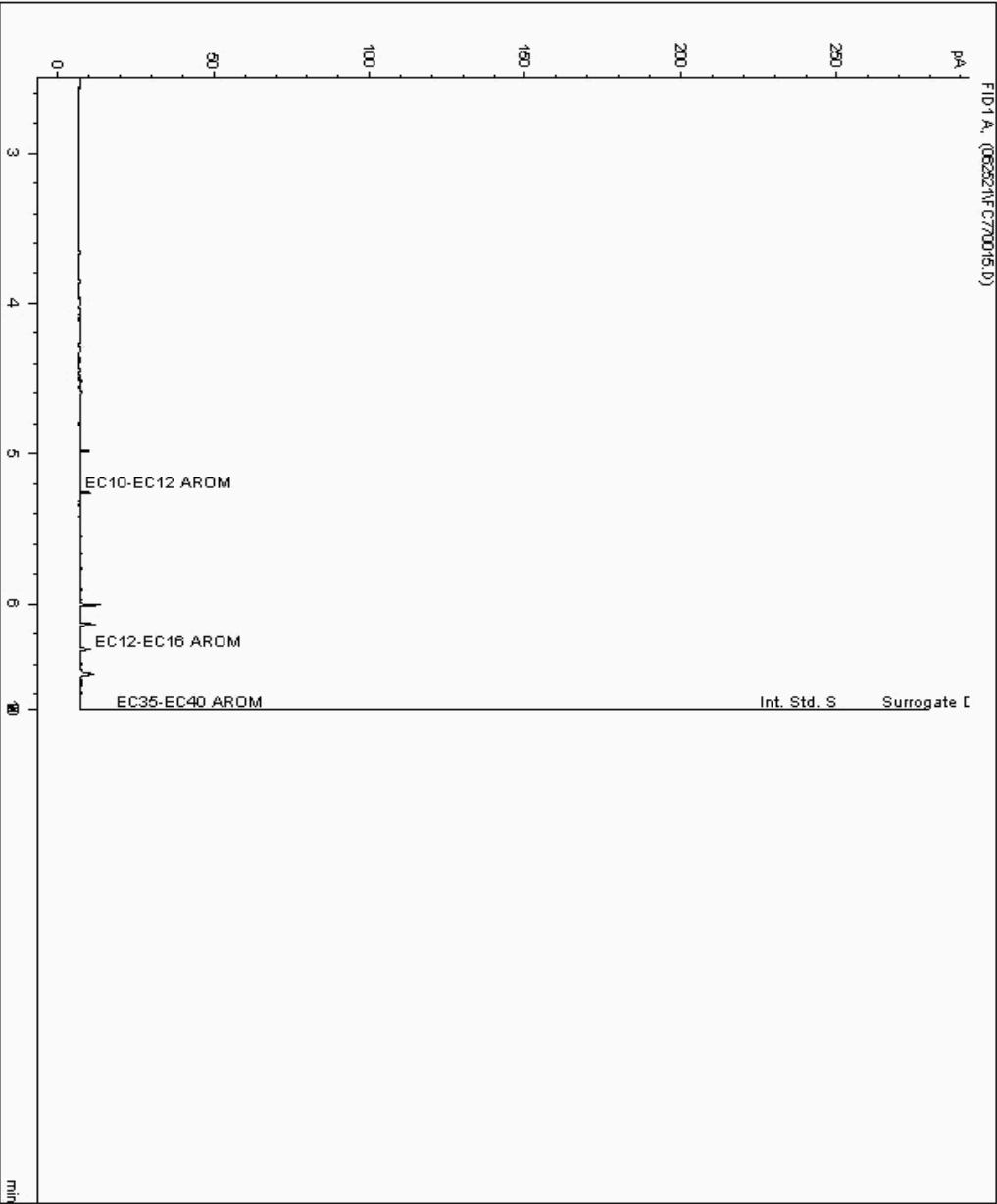
SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493023 Depth : 3.00
Sample ID : BH-PTR-35

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22925994-
Date Acquired : 6/25/2021 6:27:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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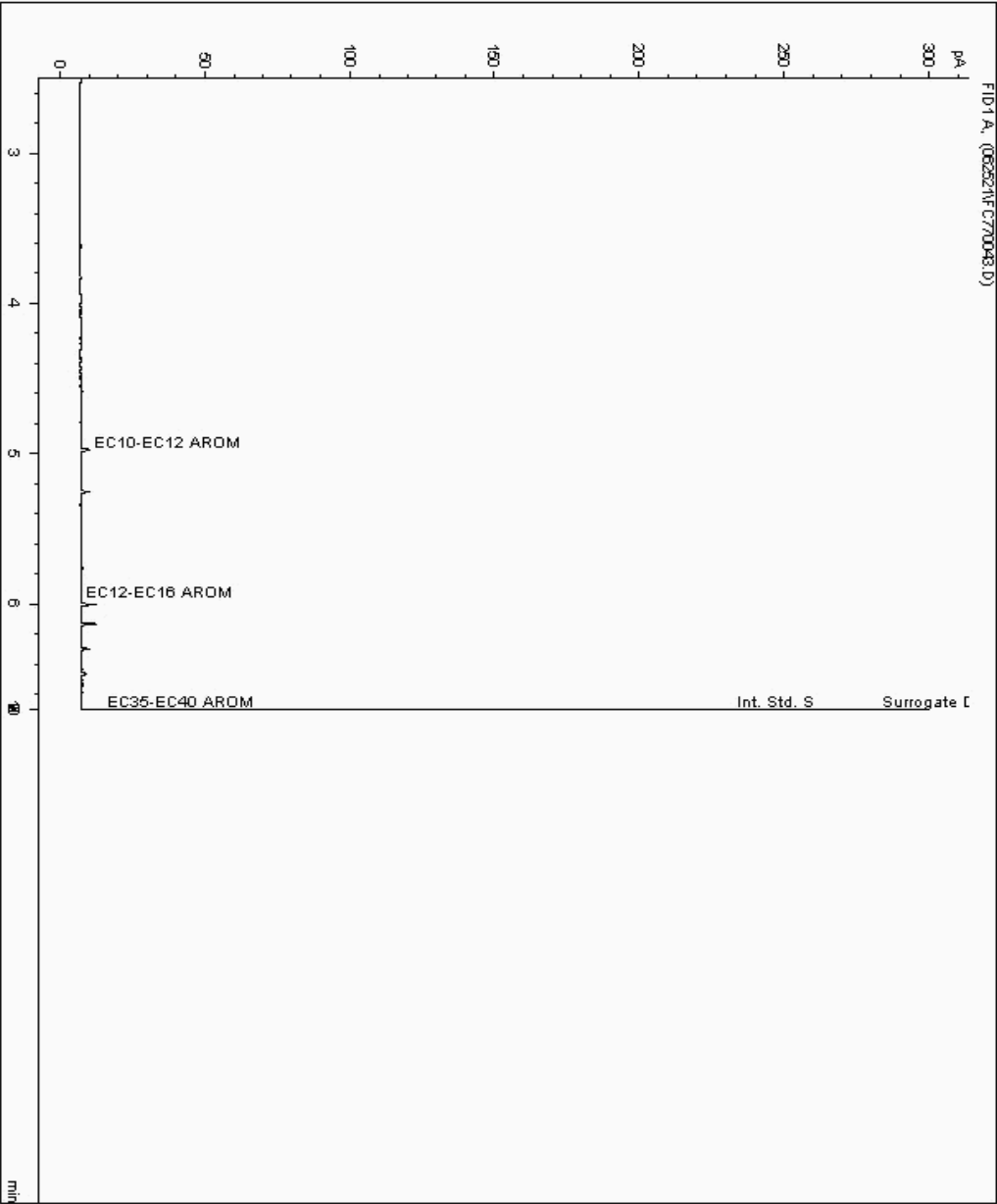
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493026 Depth : 7.50
Sample ID : BH-PTR-14

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926652-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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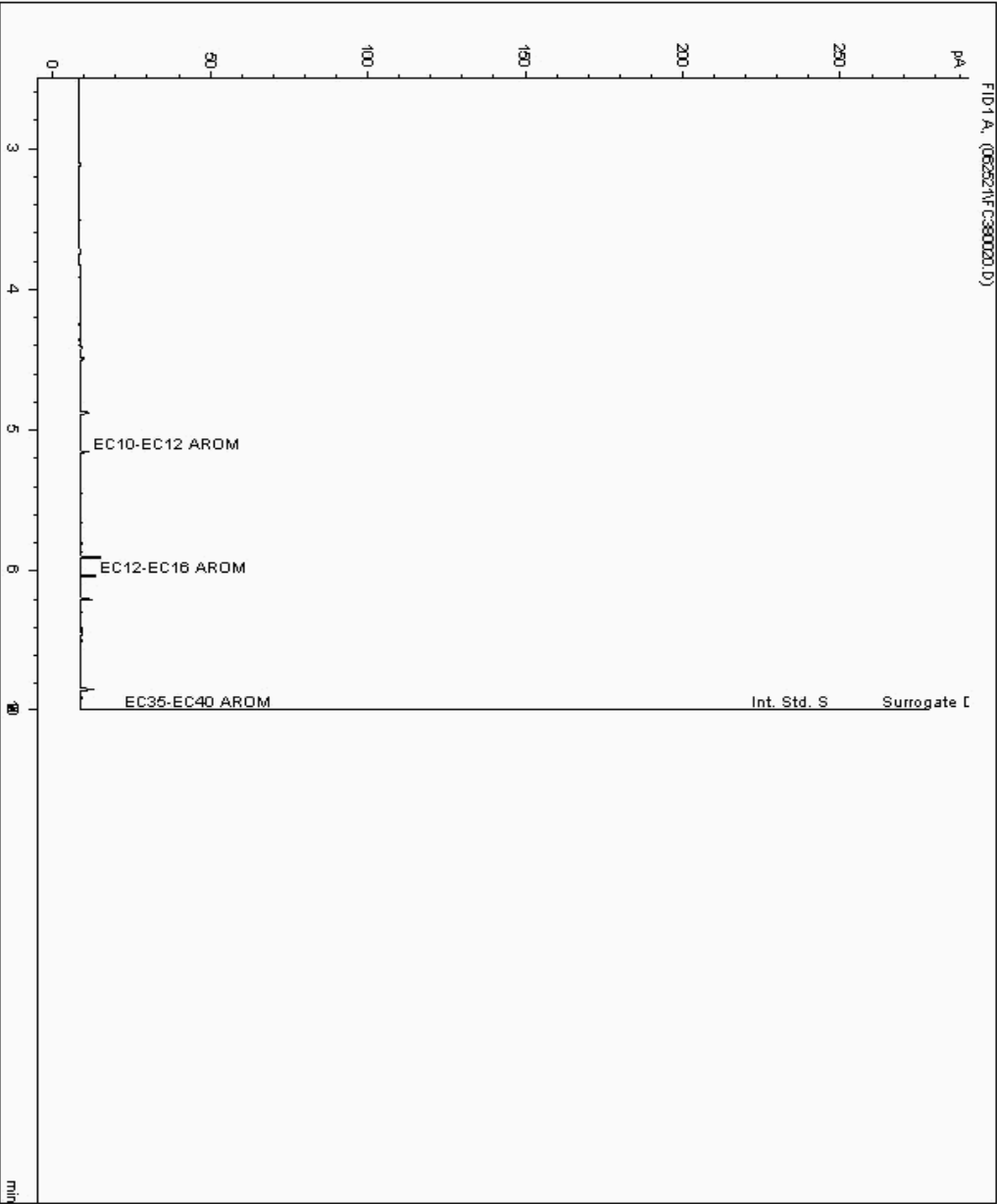
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493028 Depth : 7.00
Sample ID : BH-PTR-43D

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22926584-
Date Acquired : 25/06/21 17:48:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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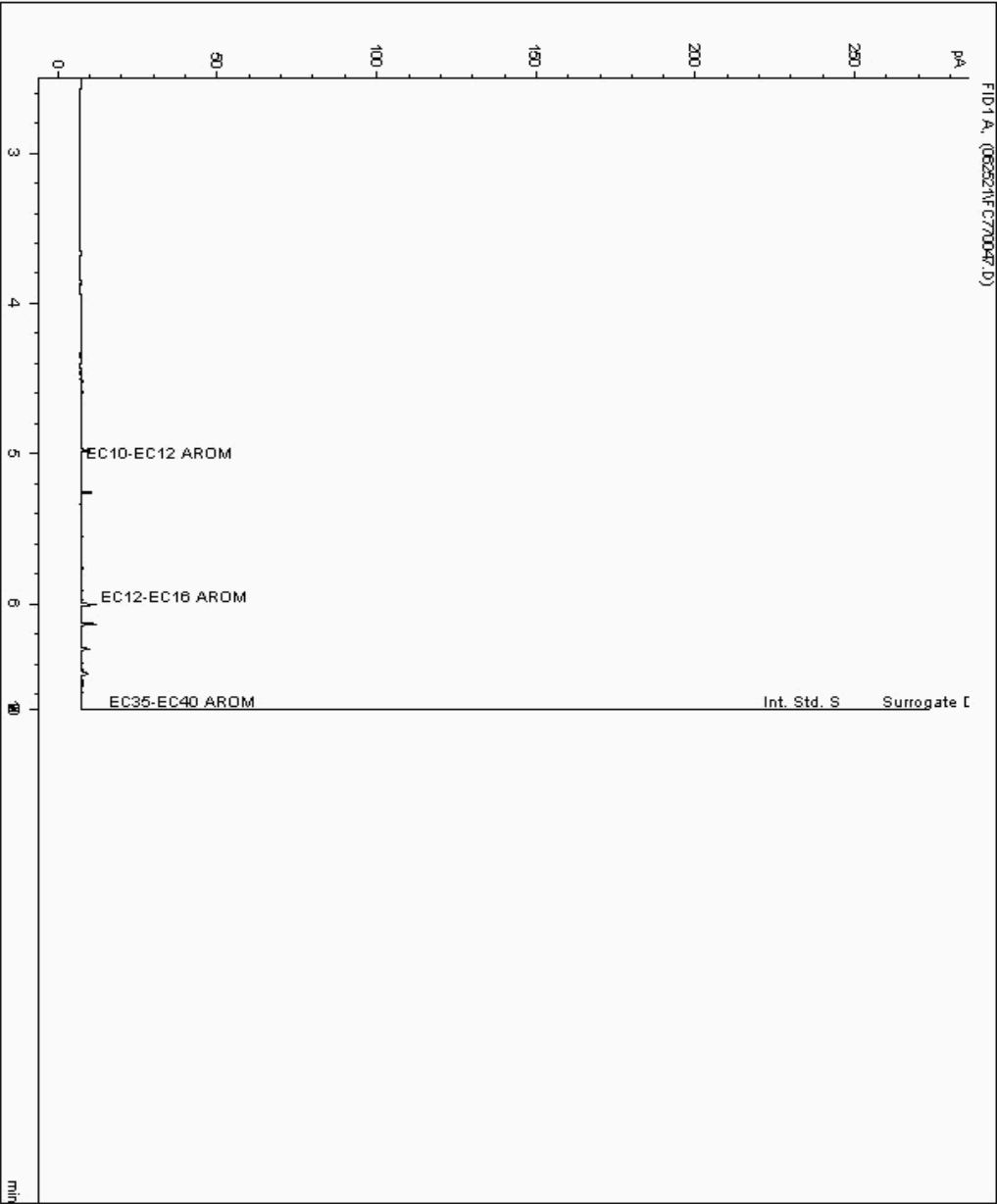
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493031 Depth : 25.00
Sample ID : BH-PTR-33D

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926024-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025





CERTIFICATE OF ANALYSIS

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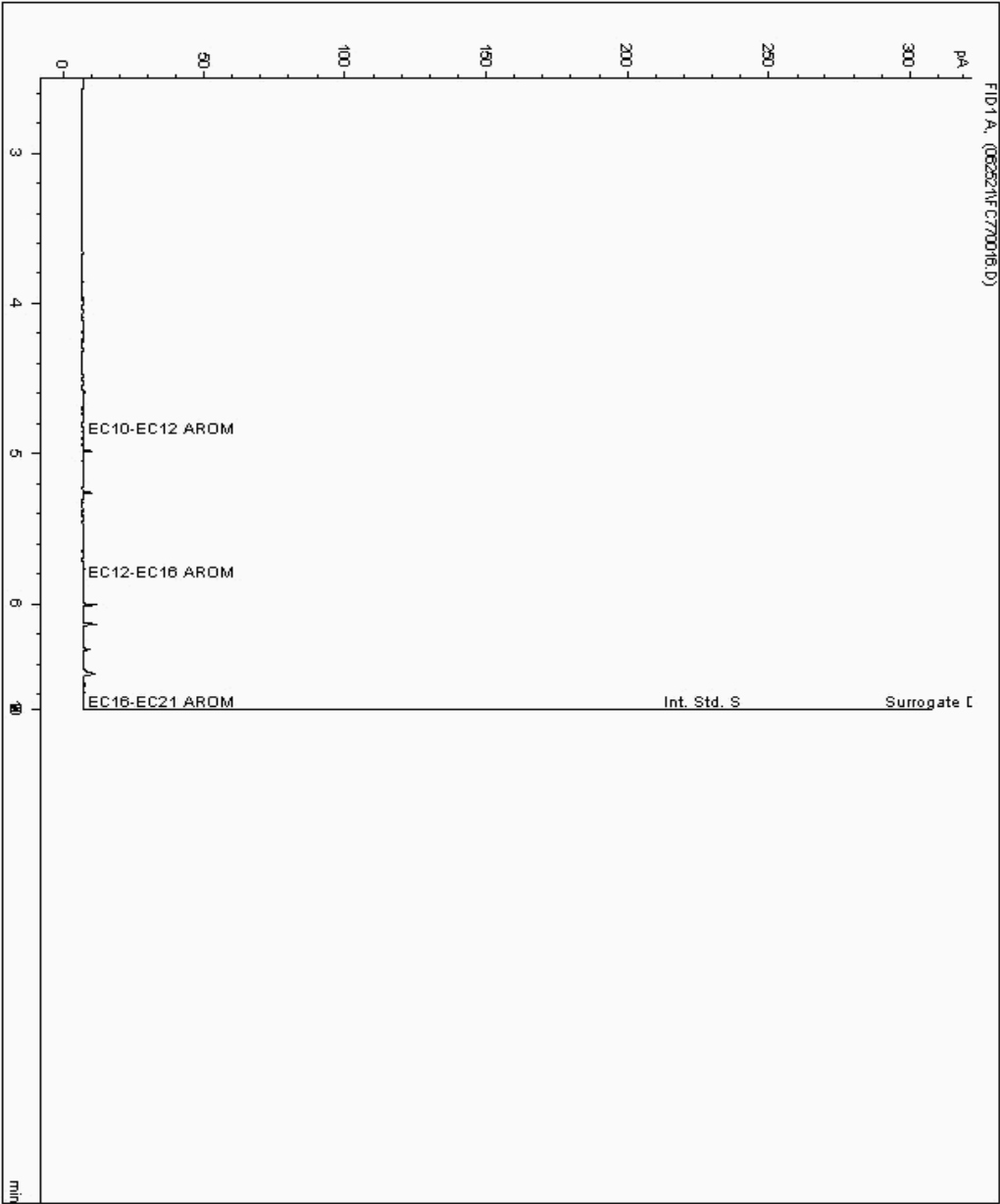
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493043 Depth : 2.75
Sample ID : BH-PTR-33S

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926047-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.025



CERTIFICATE OF ANALYSIS

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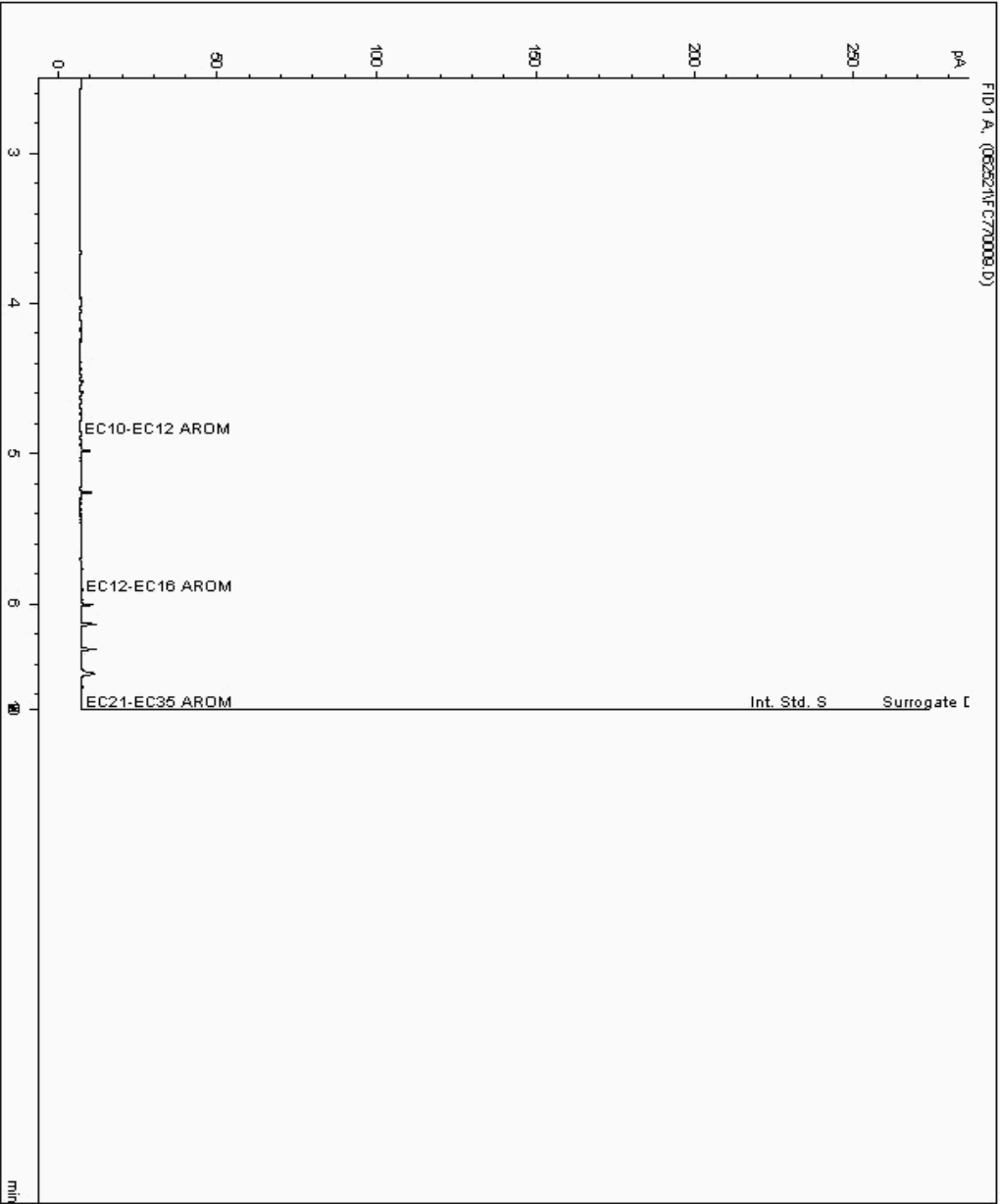
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493054 Depth : 13.00
Sample ID : BH-PTR-39

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 22926701-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.027





CERTIFICATE OF ANALYSIS

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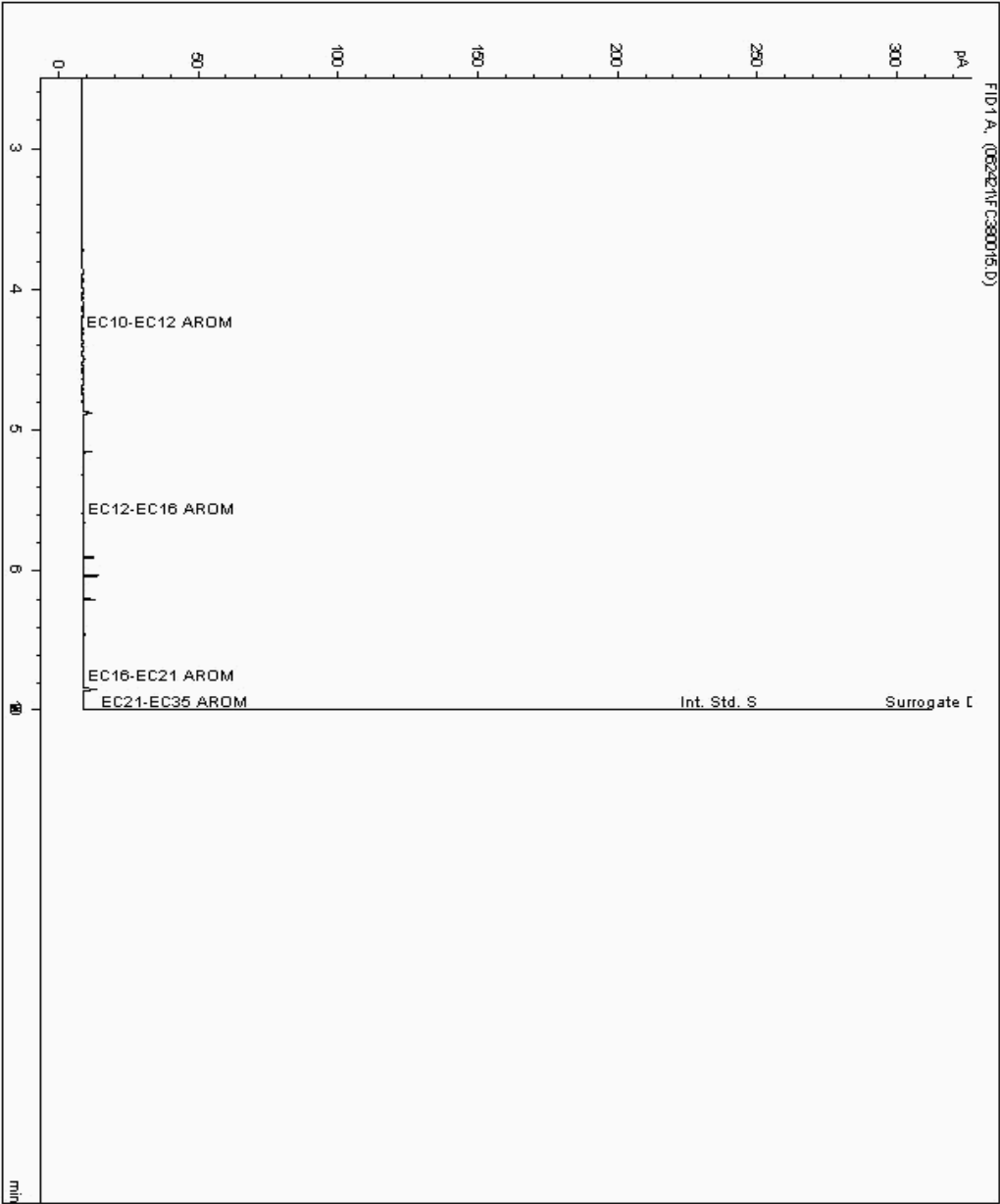
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Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24493072 Depth : 2.30
Sample ID : BH-PTR-36

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22925971-
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Units : ppb
Dilution :
CF : 1
Multiplier : 0.027



CERTIFICATE OF ANALYSIS

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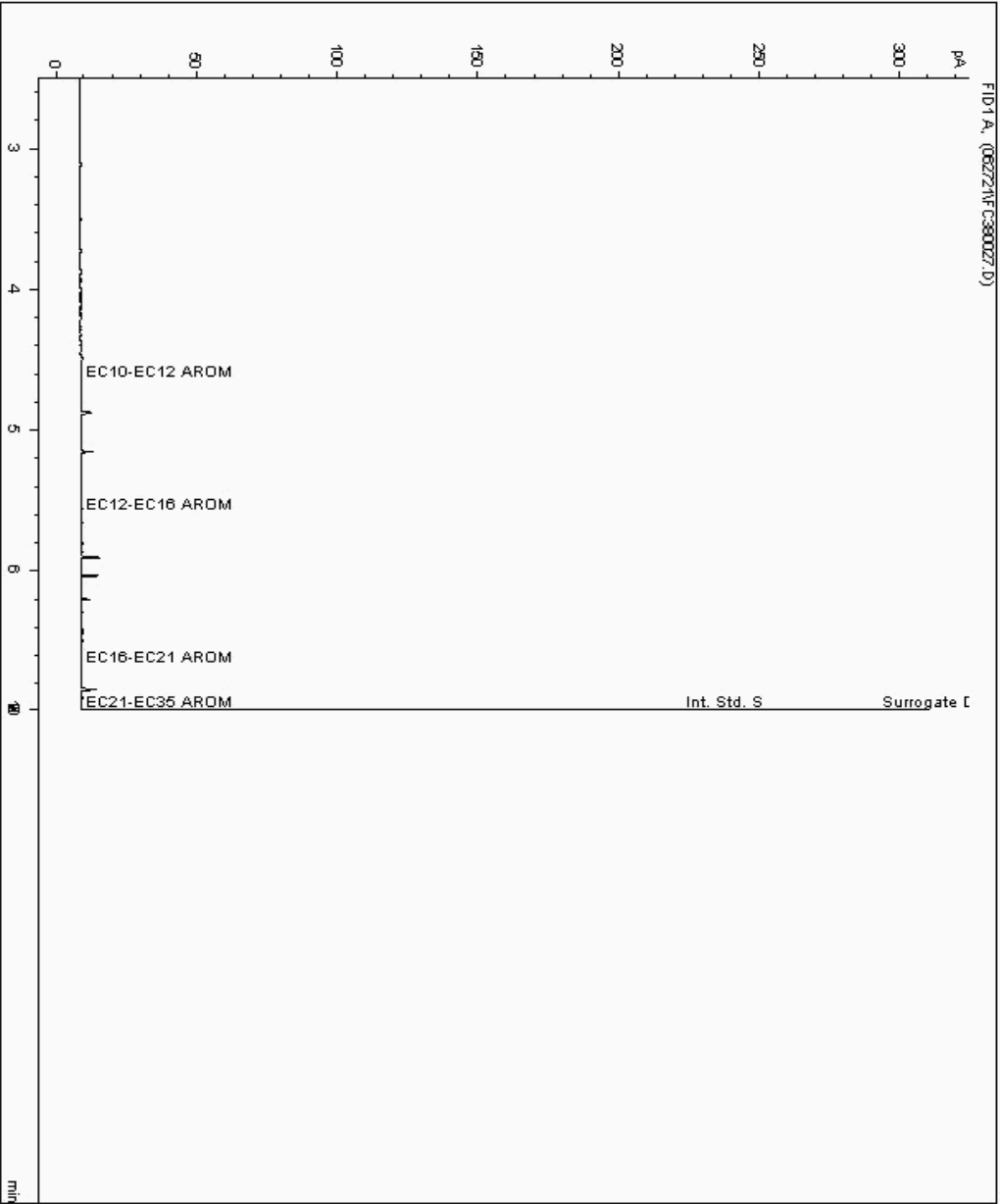
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: EPH CWG (Aromatic) Aqueous GC (W) Sample No : 24521605 Depth : 8.50
Sample ID : BH-PTR-12

Speciated TPH - AROM (C12 - C40)

Sample Identity: 22949680-
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Dilution :
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Multiplier : 0.027





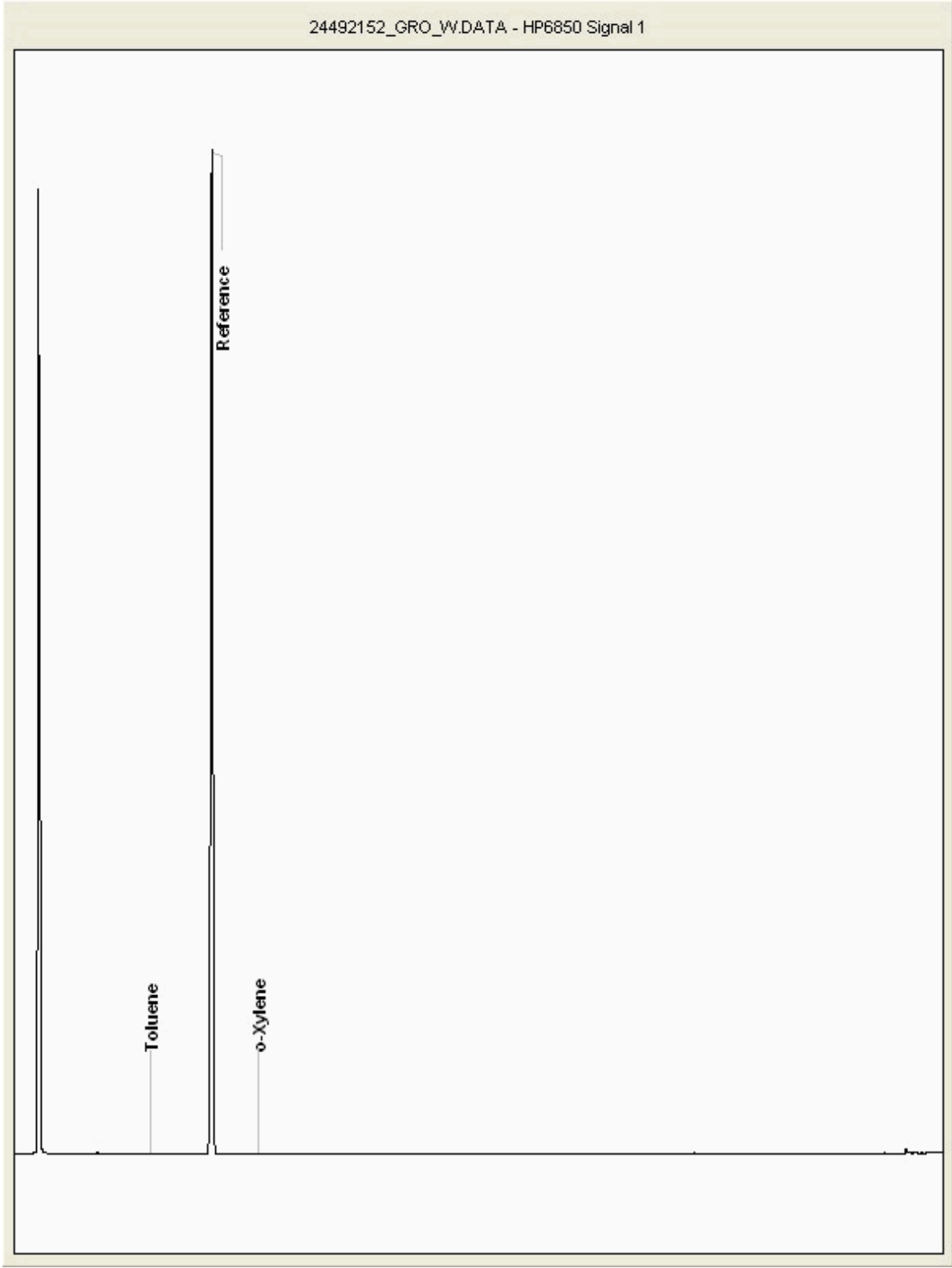
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492152 Depth : 3.00
Sample ID : BH-PTR-10



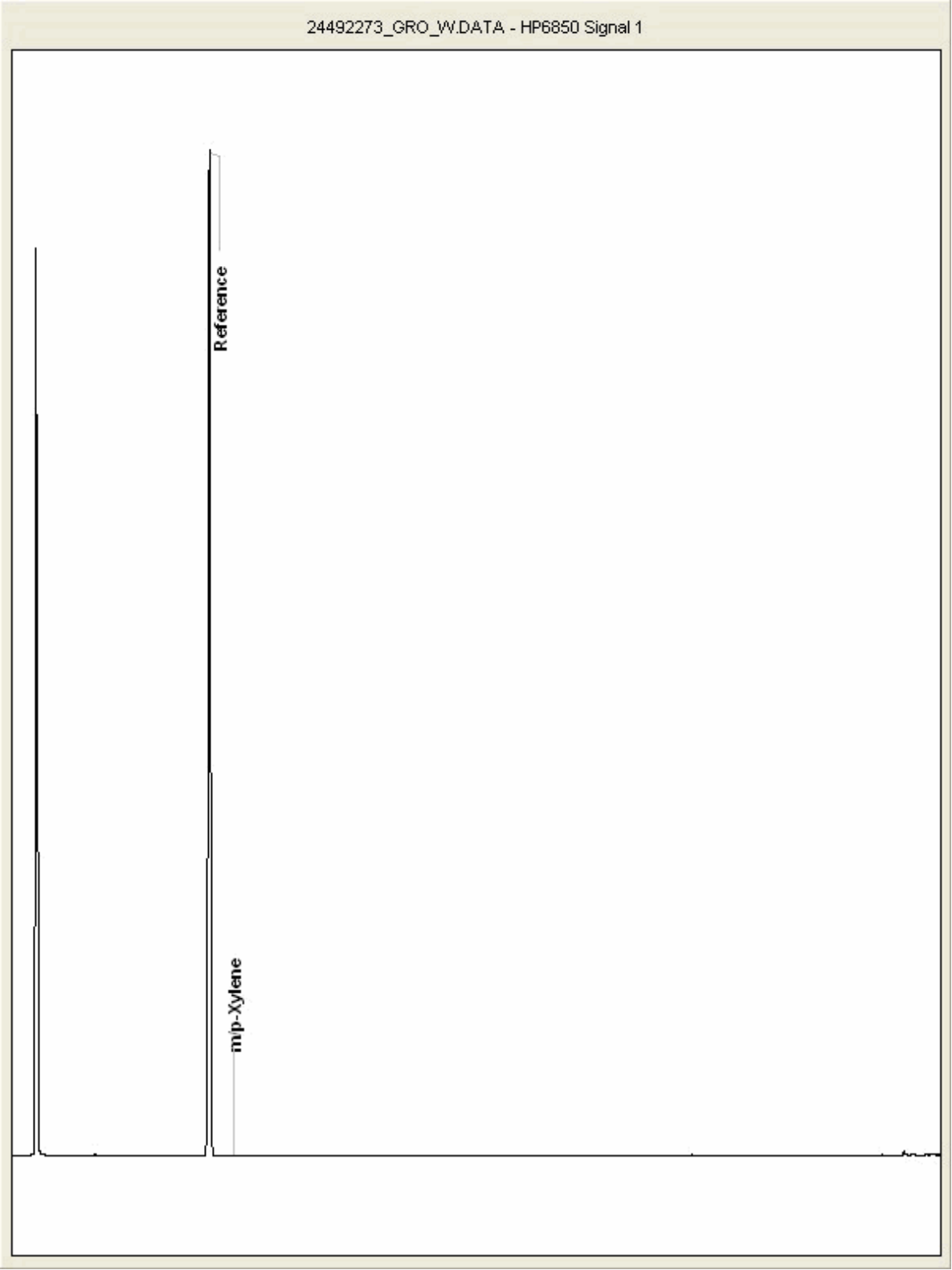
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492273 Depth : 3.00
Sample ID : BH-PTR-35





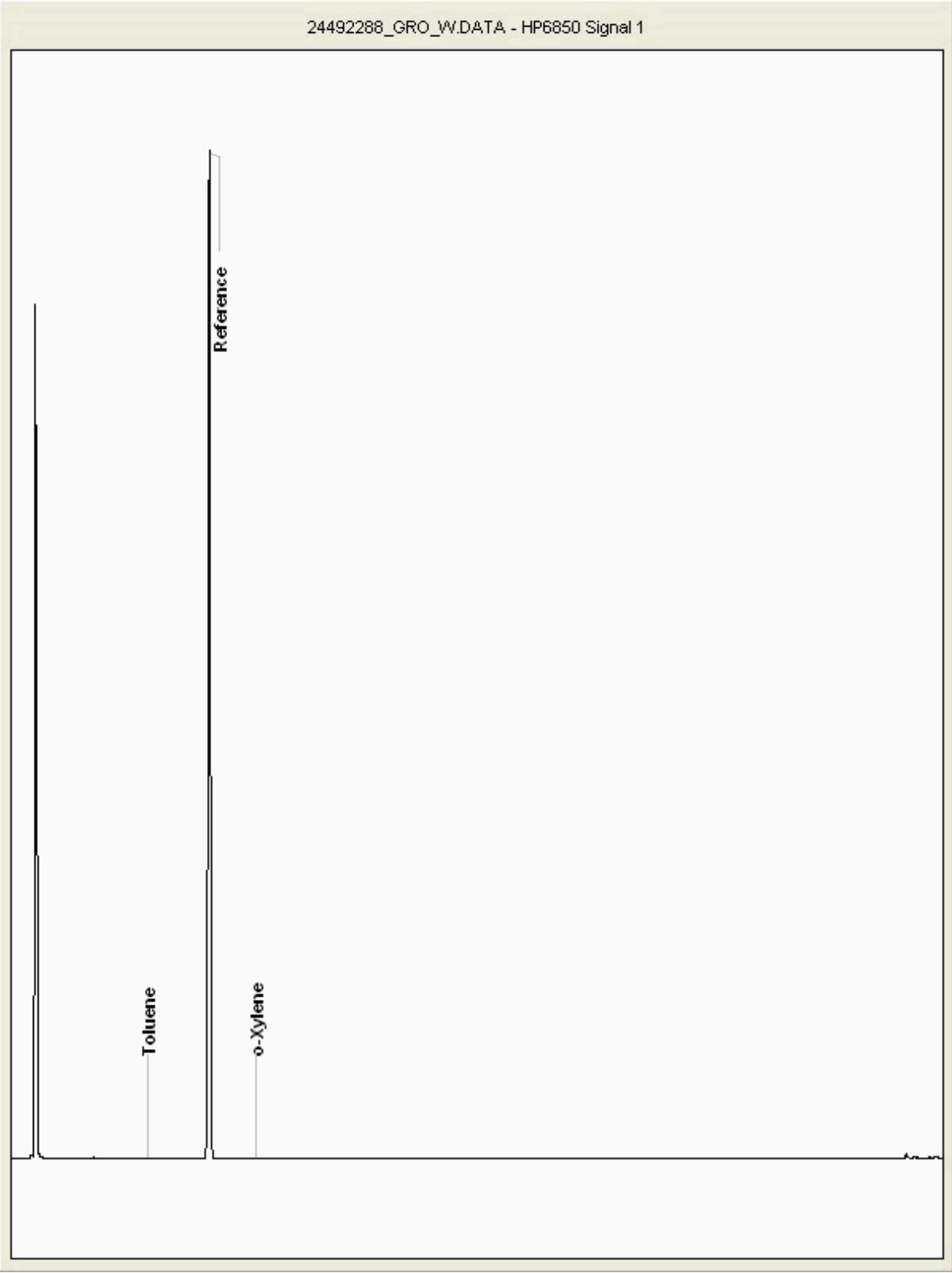
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492288 Depth : 12.00
Sample ID : BH-PTR-08D



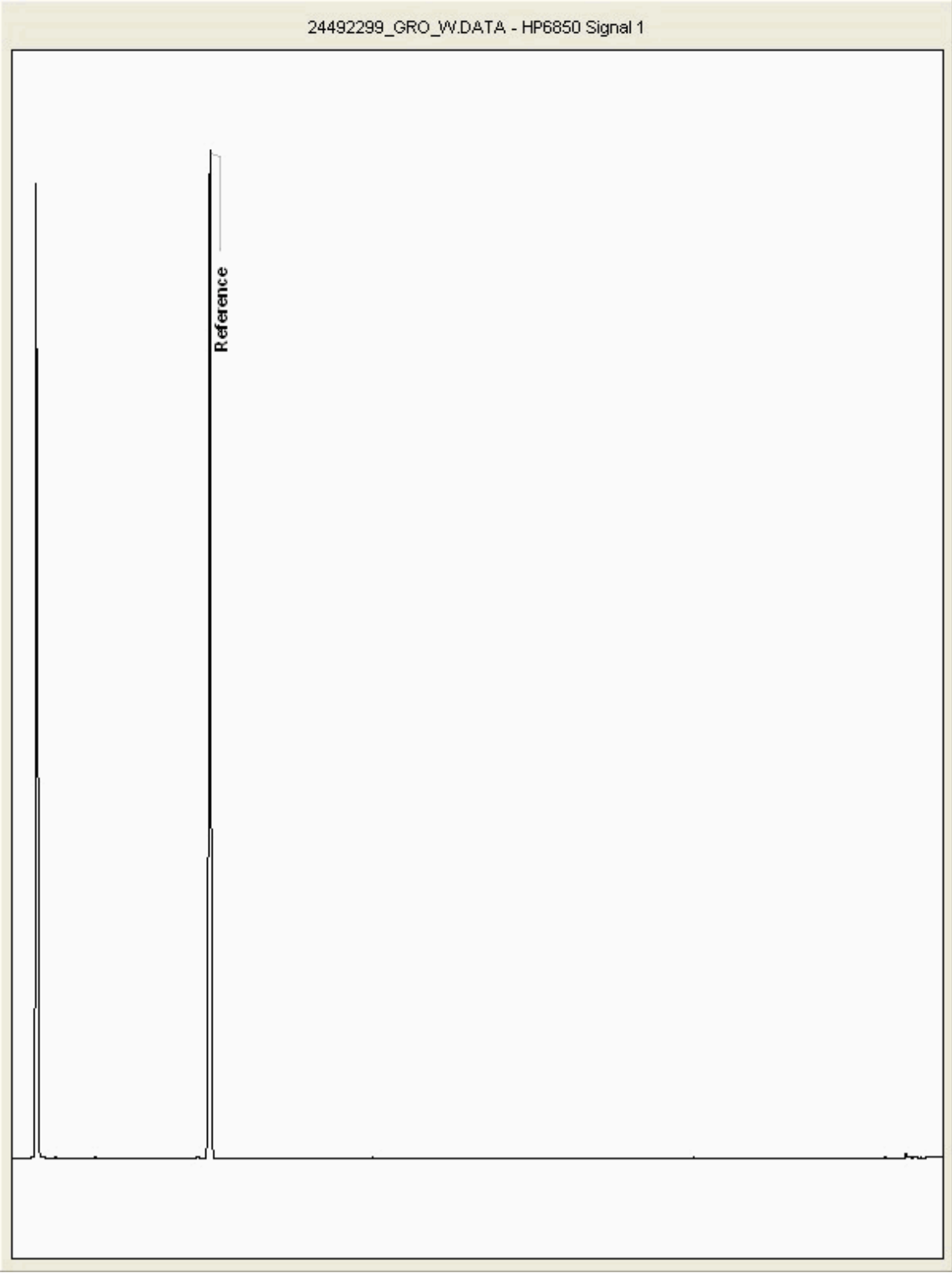
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492299 Depth : 4.00
Sample ID : BH-PTR-03





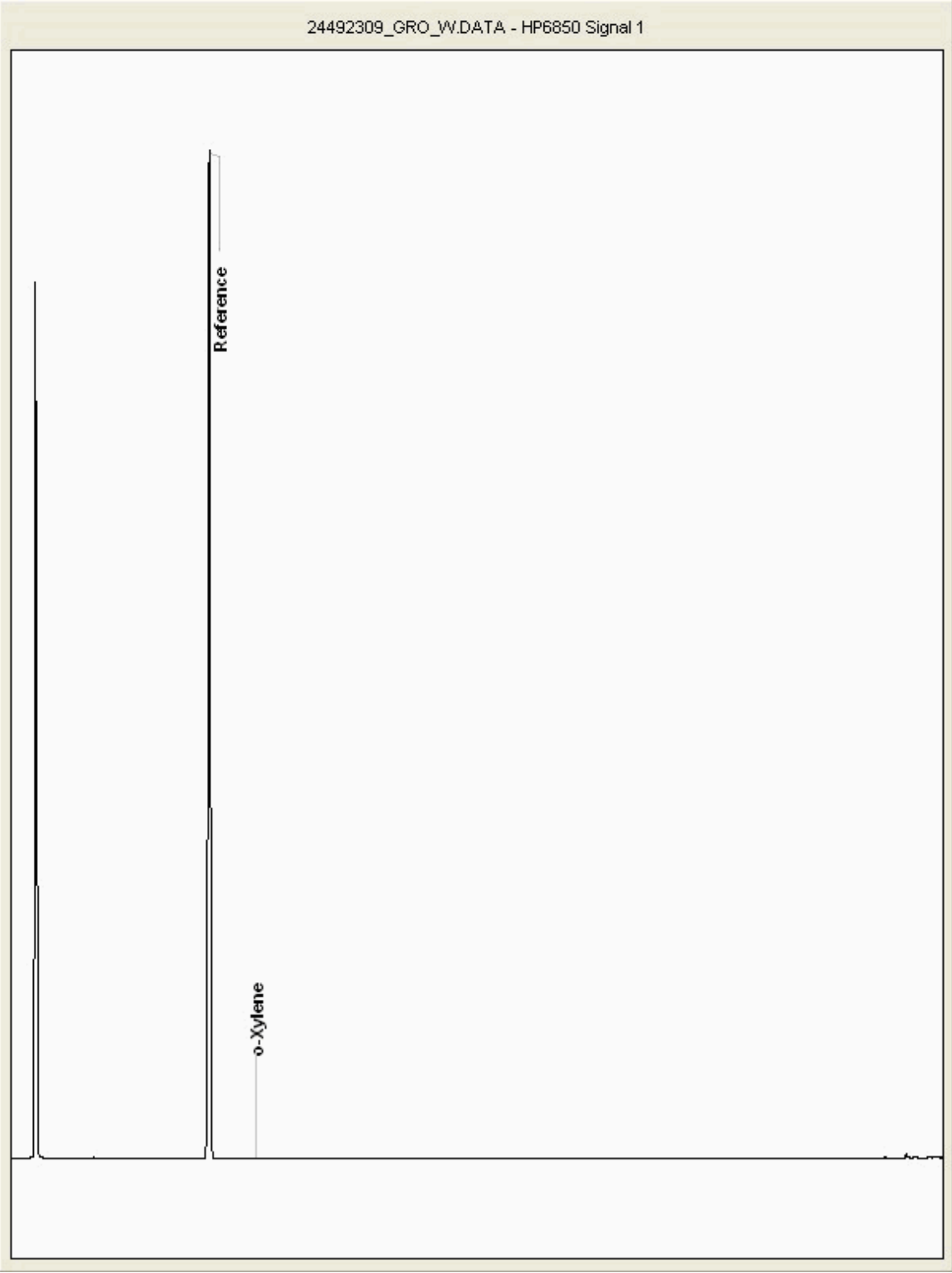
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492309 Depth : 2.30
Sample ID : BH-PTR-36



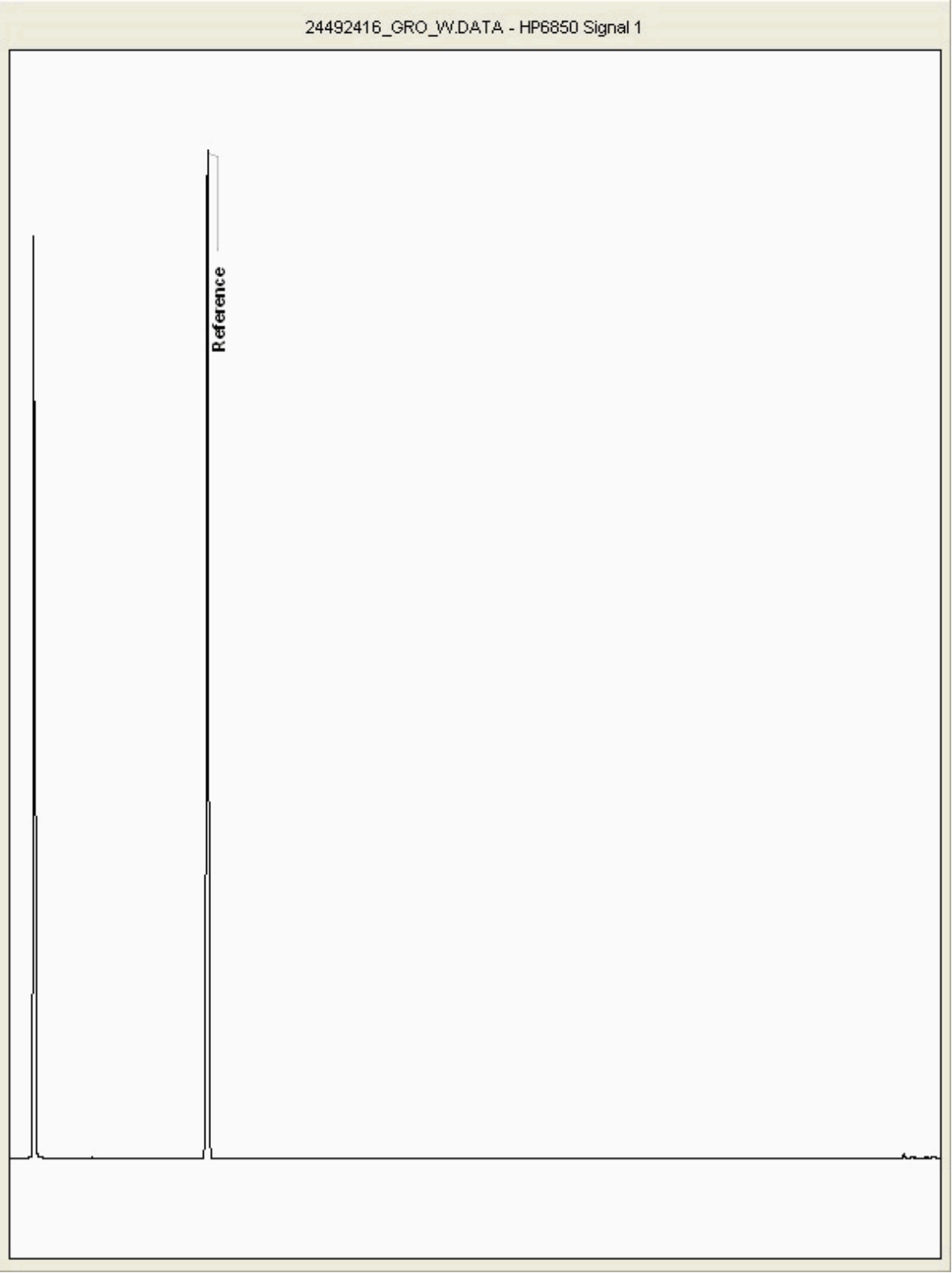
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492416 Depth : 1.70
Sample ID : BH-PTR-02S





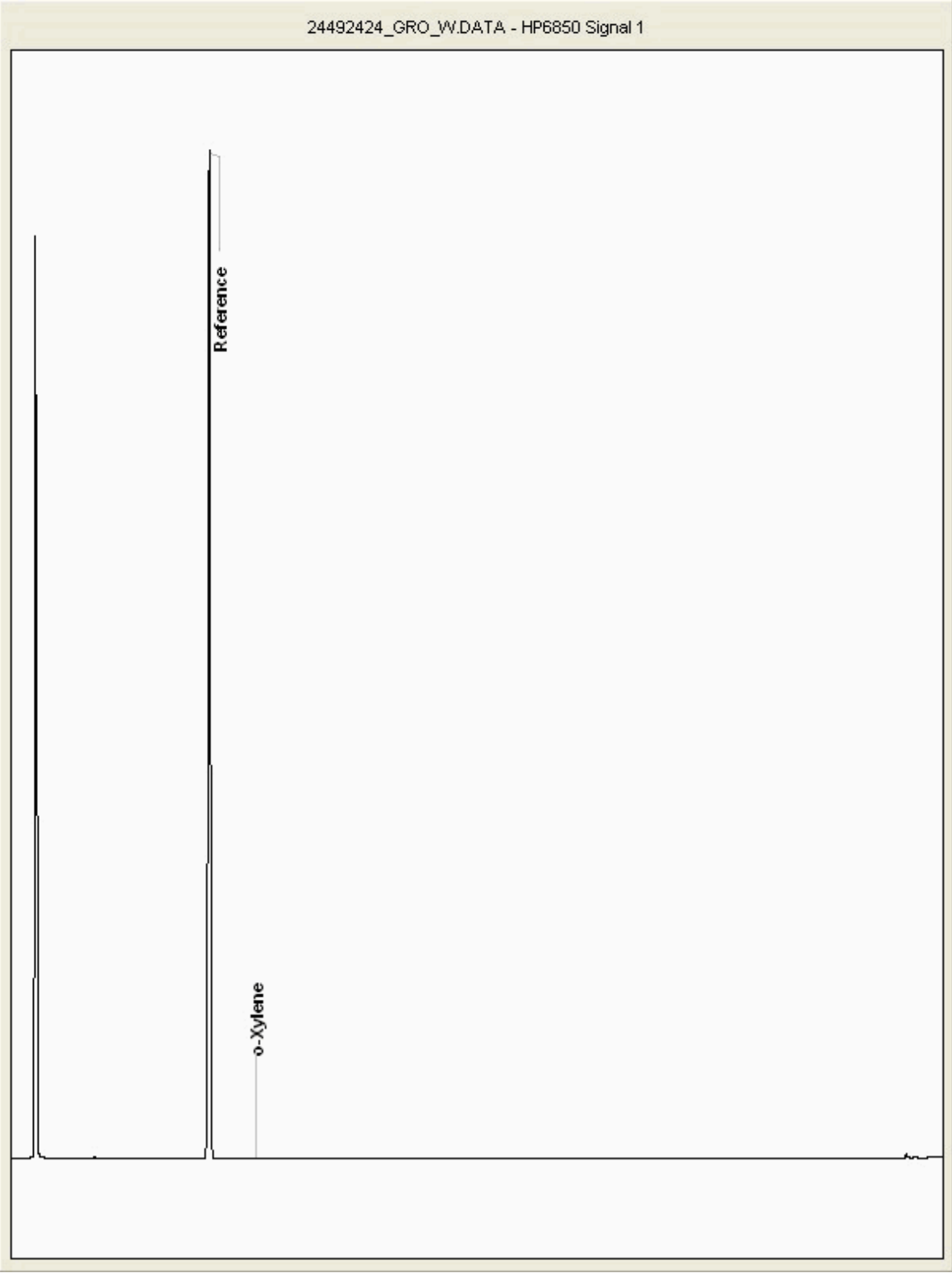
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492424 Depth : 7.00
Sample ID : BH-PTR-43D



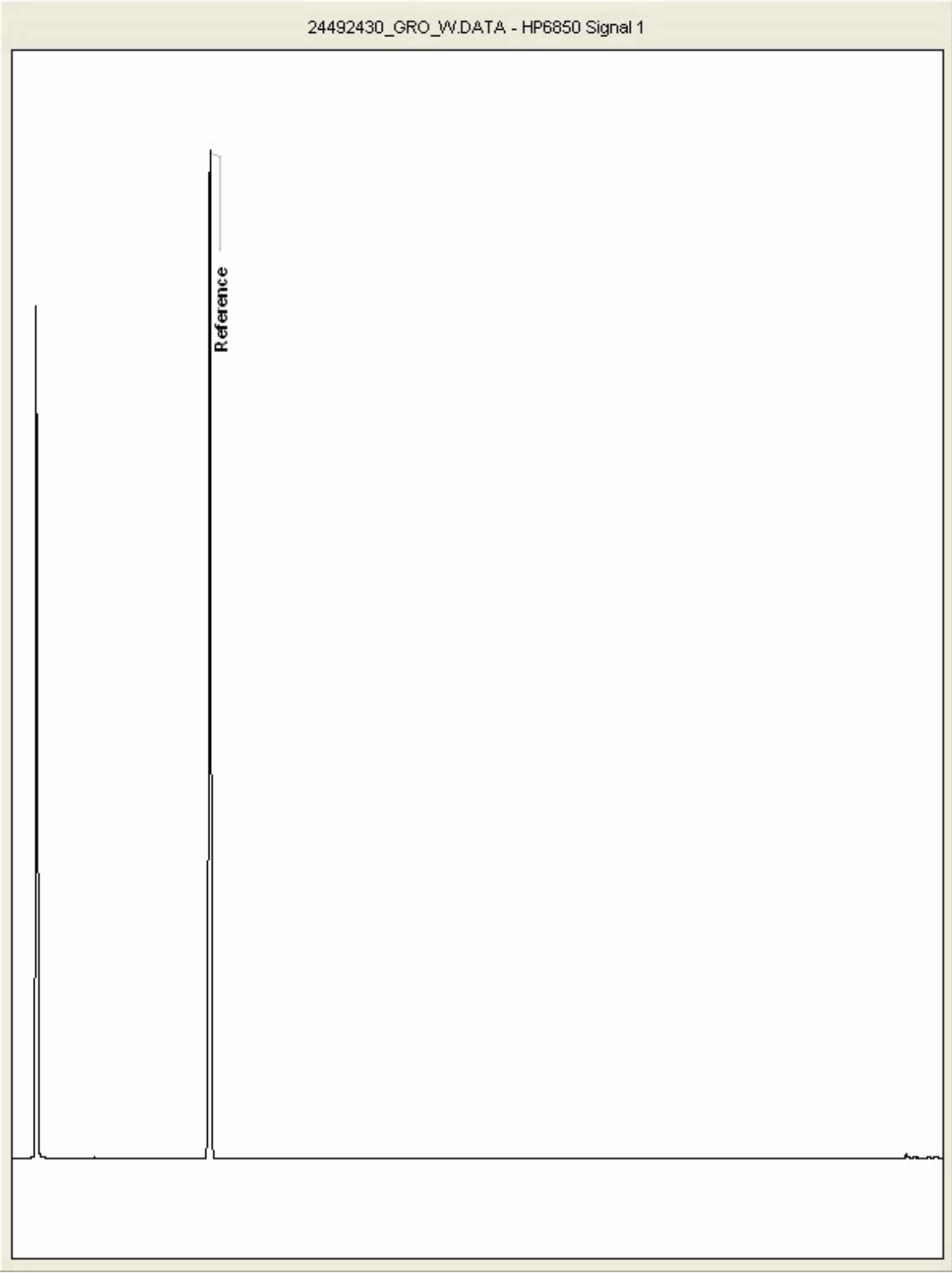
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492430 Depth : 3.50
Sample ID : BH-PTR-19





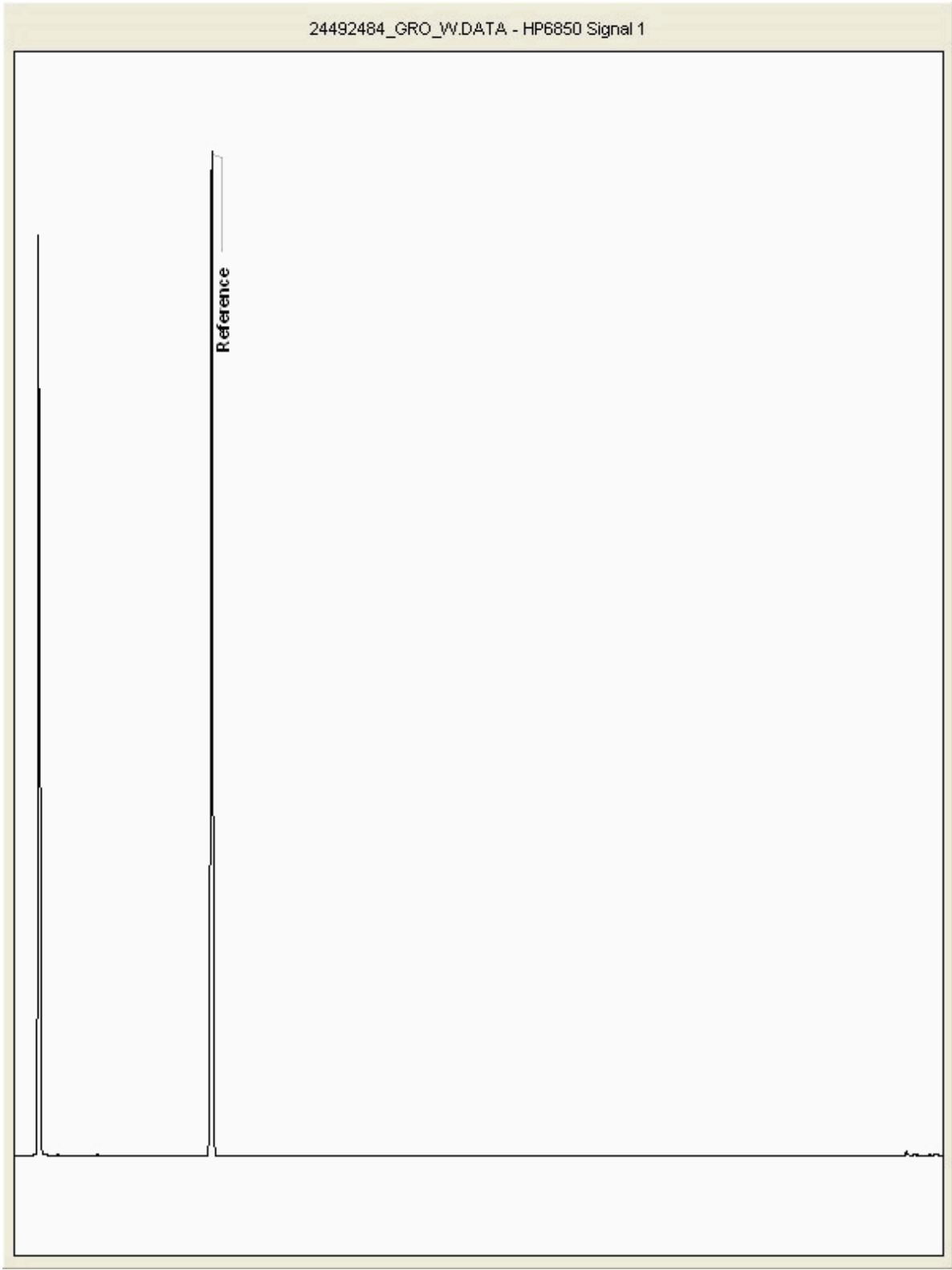
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492484 Depth : 2.50
Sample ID : BH-PTR-04



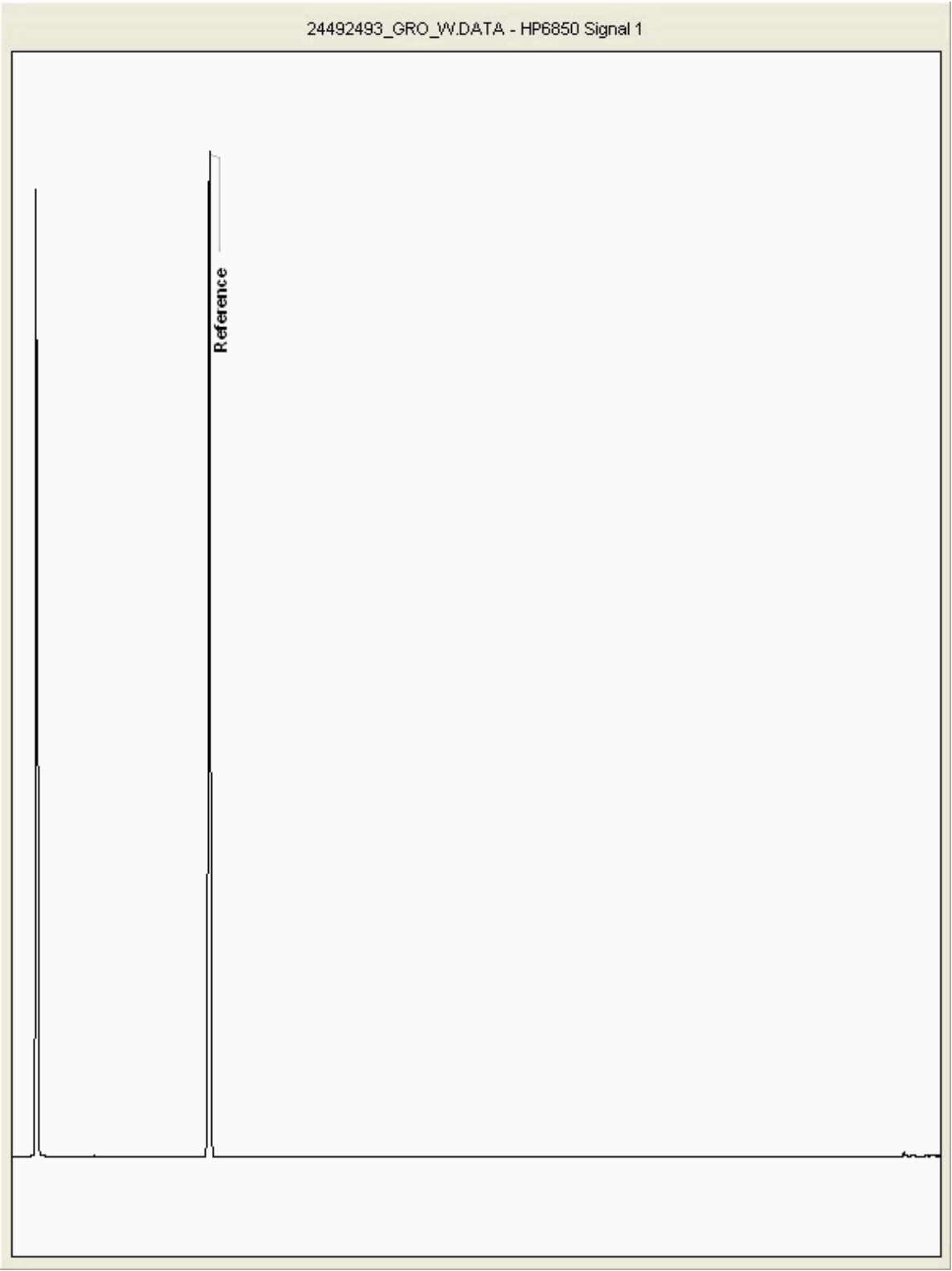
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Validated

SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492493 Depth : 7.45
Sample ID : BH-OBC-06





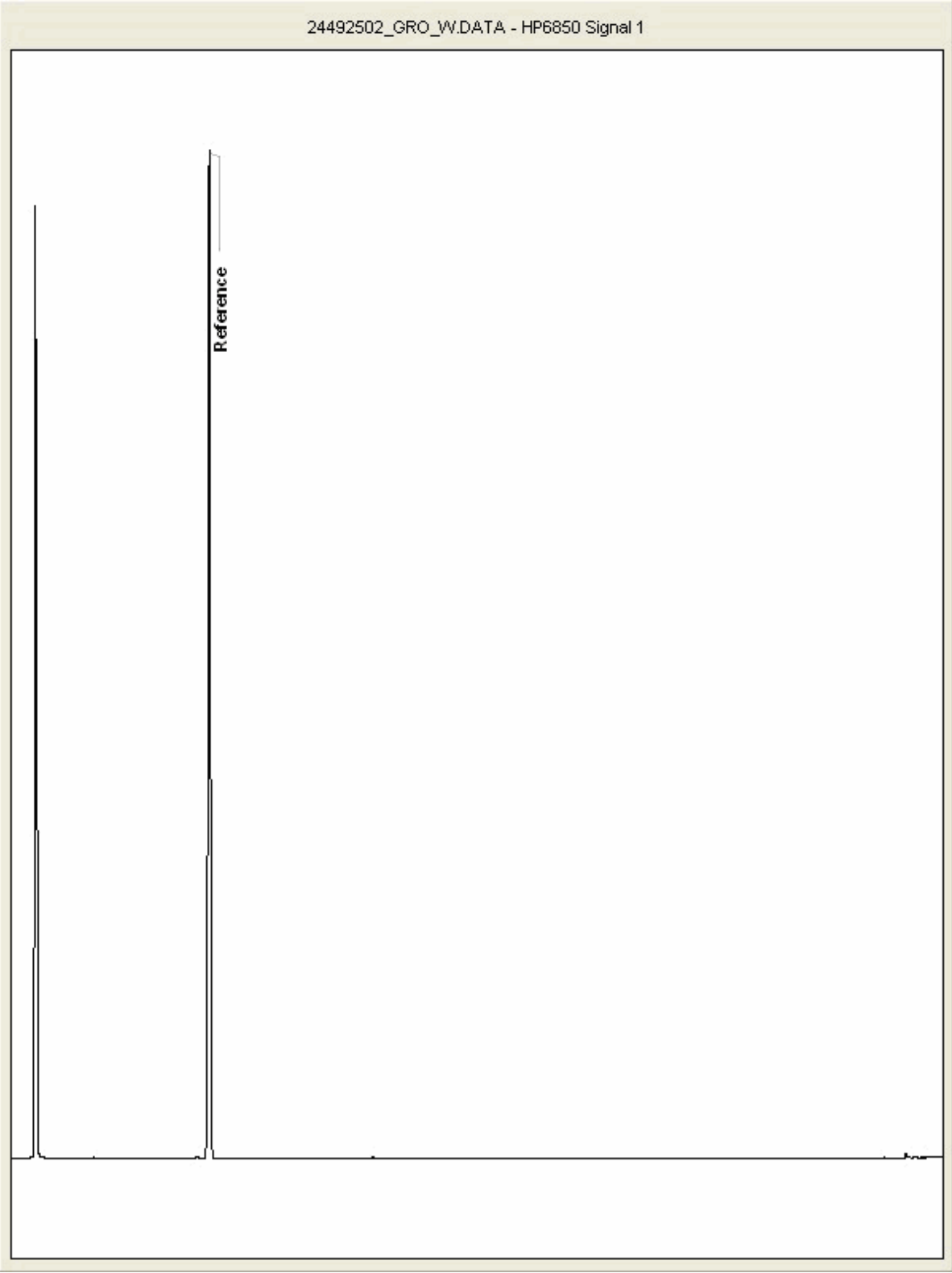
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492502 Depth : 2.00
Sample ID : BH-PTR-08S



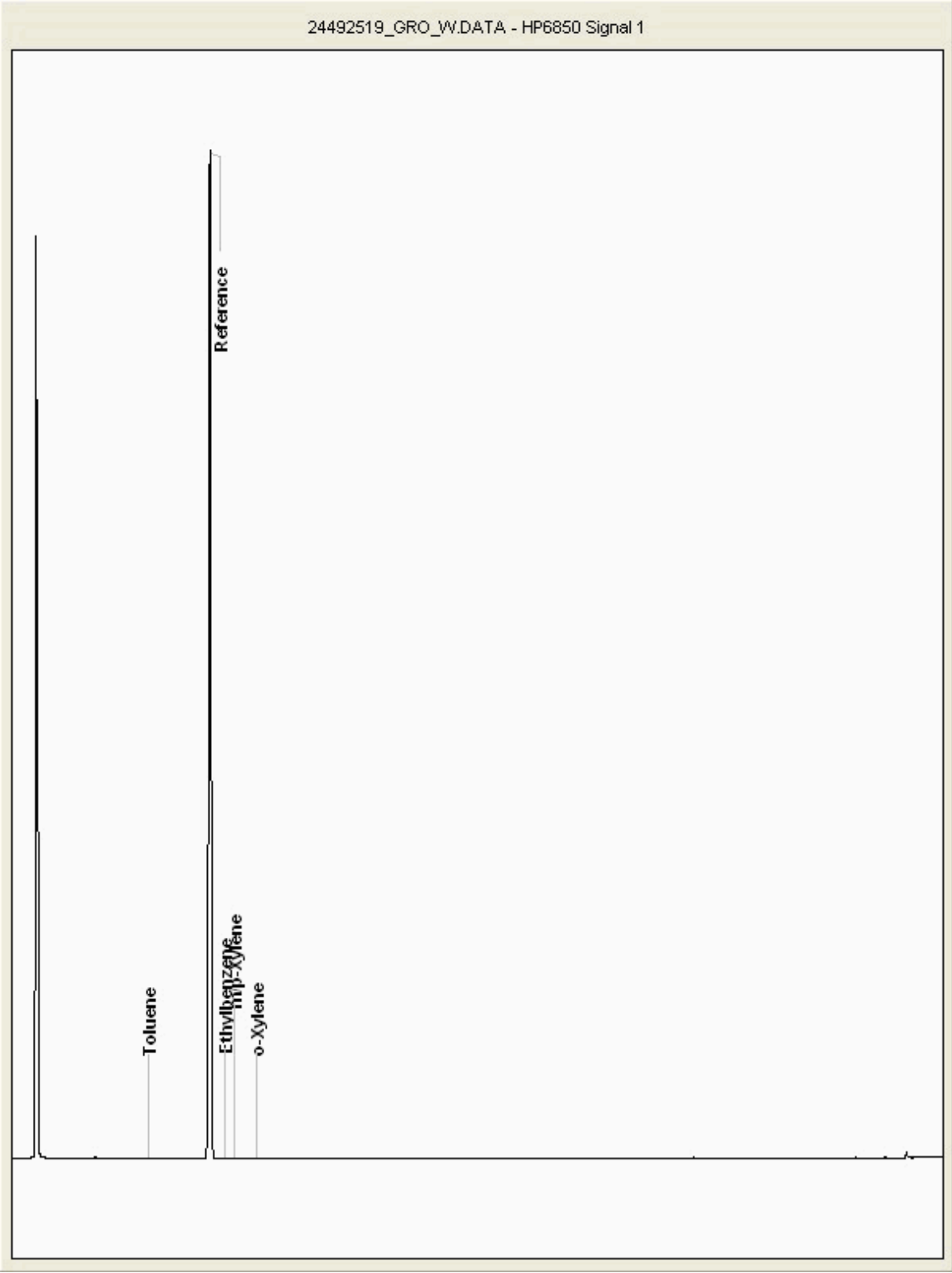
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492519 Depth : 2.50
Sample ID : BH-PTR-43S





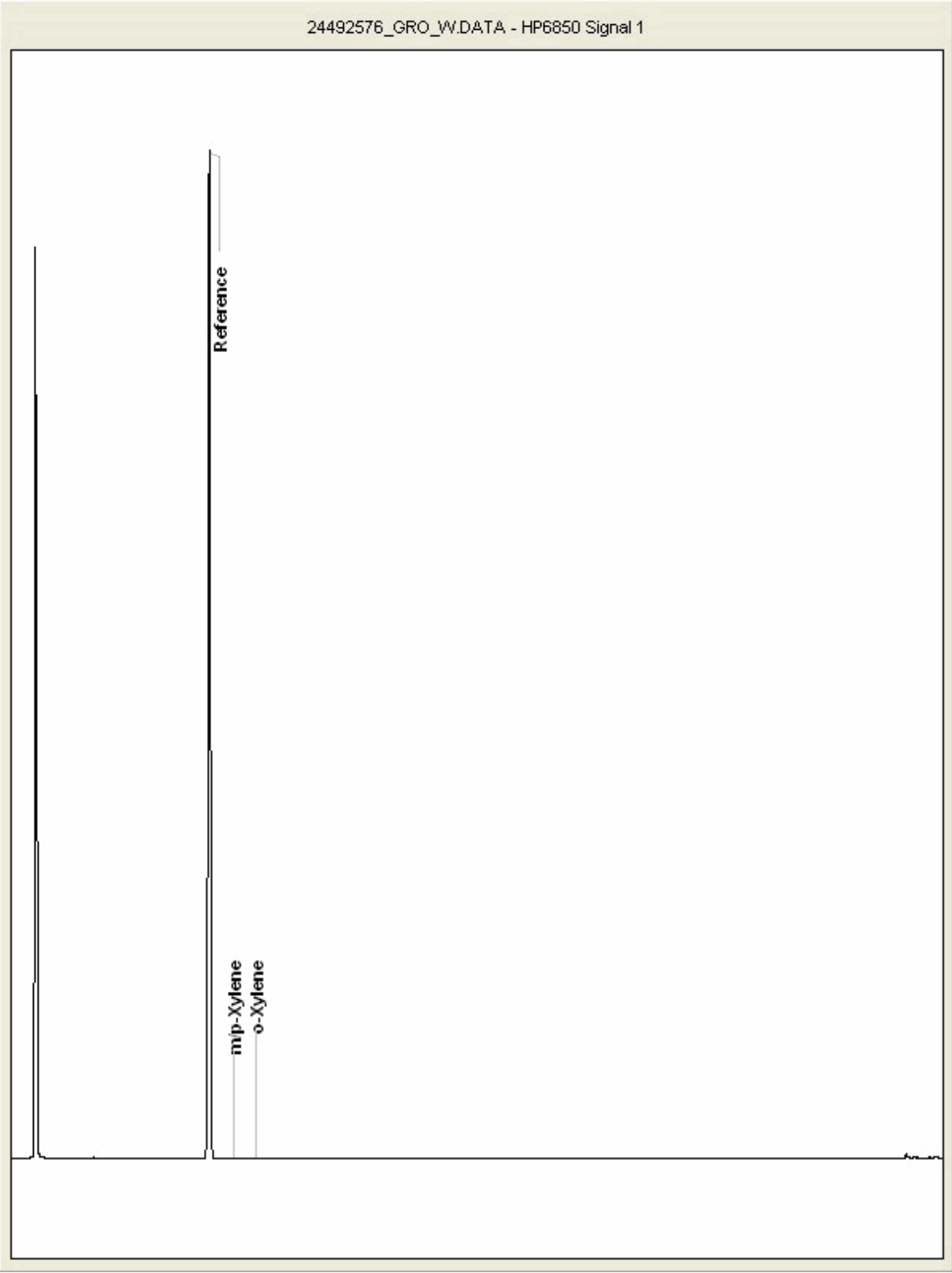
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492576 Depth : 25.00
Sample ID : BH-PTR-33D



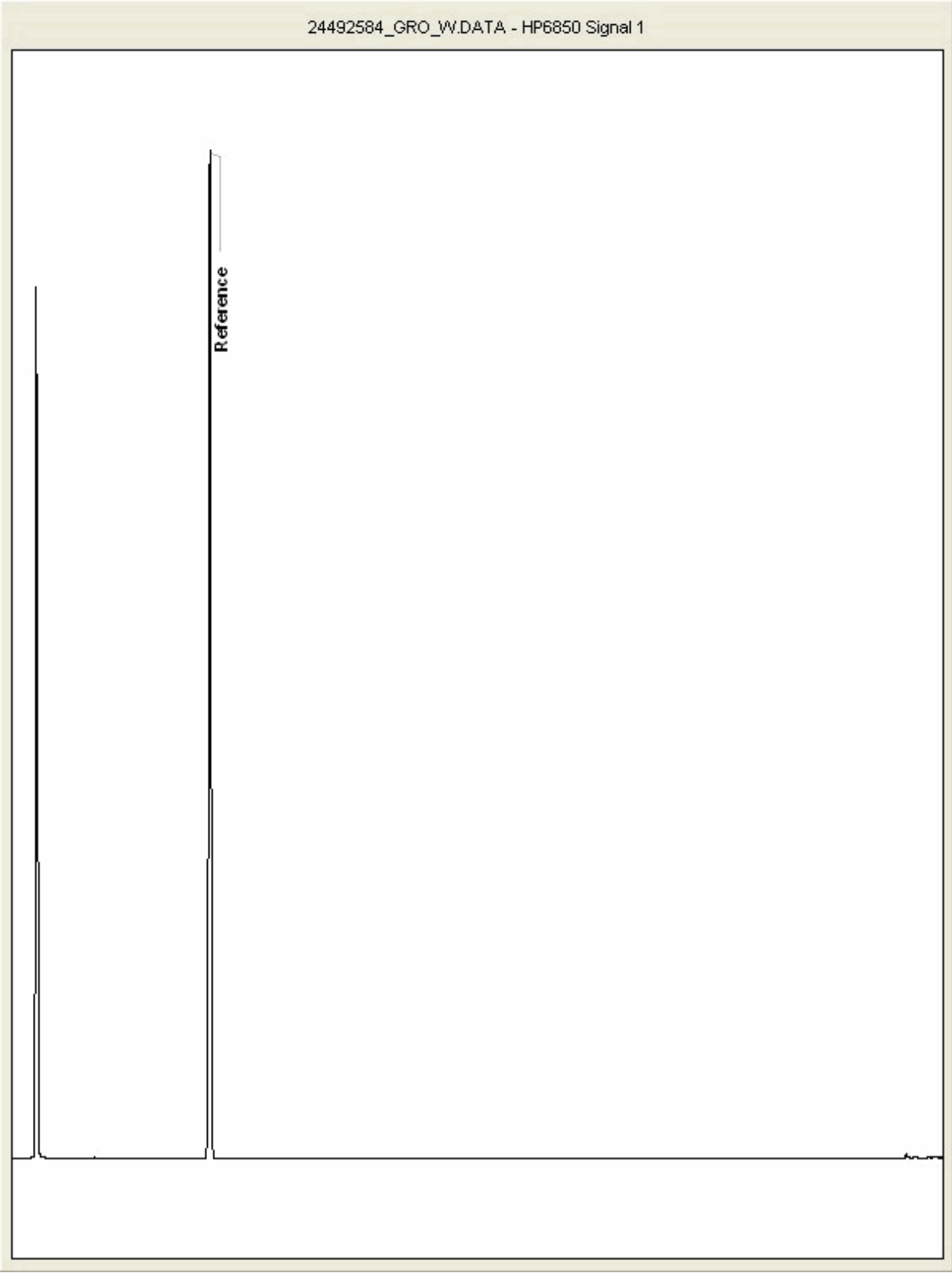
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492584 Depth : 12.00
Sample ID : BH-PTR-07





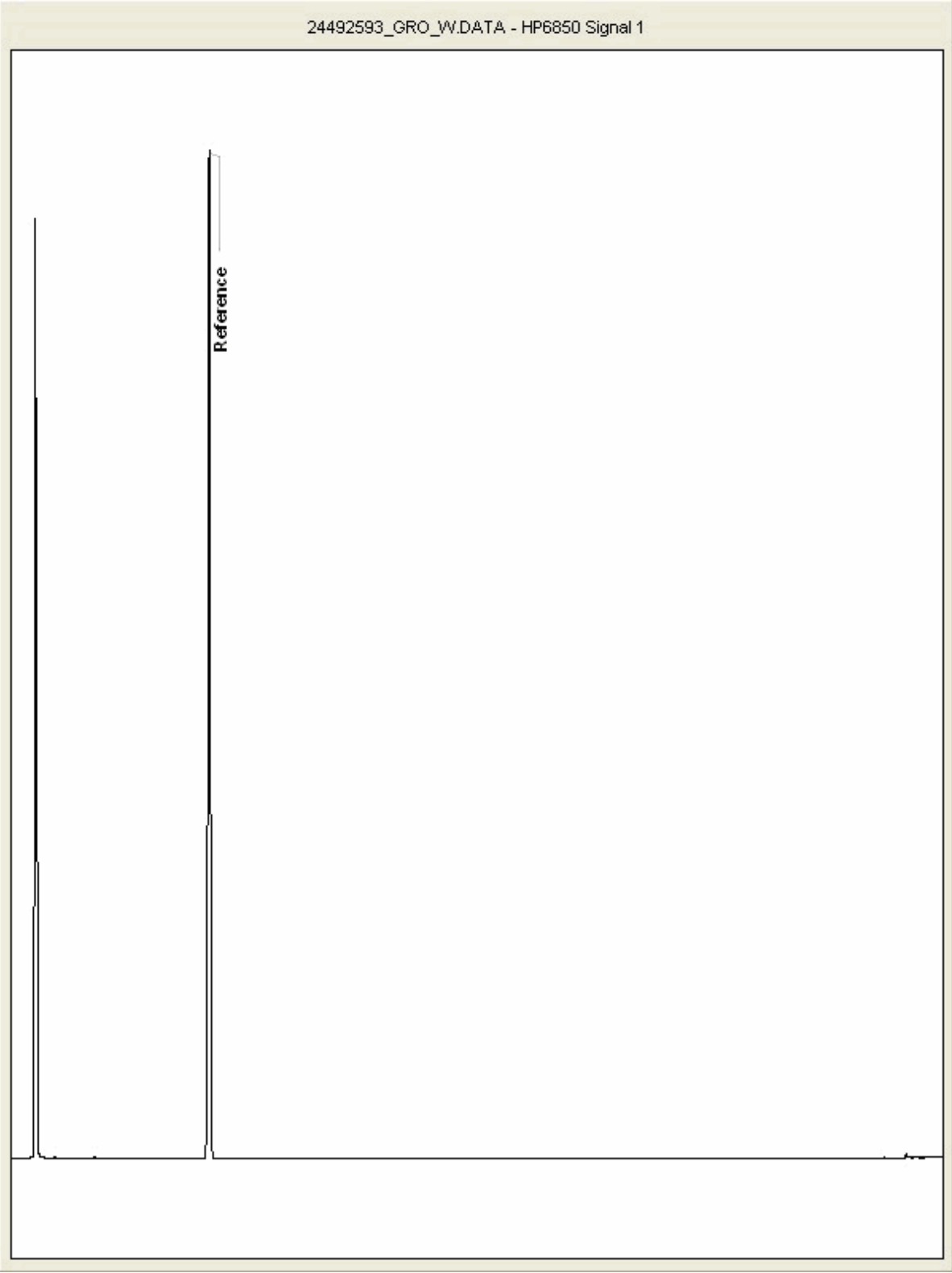
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492593 Depth : 7.50
Sample ID : BH-PTR-41D



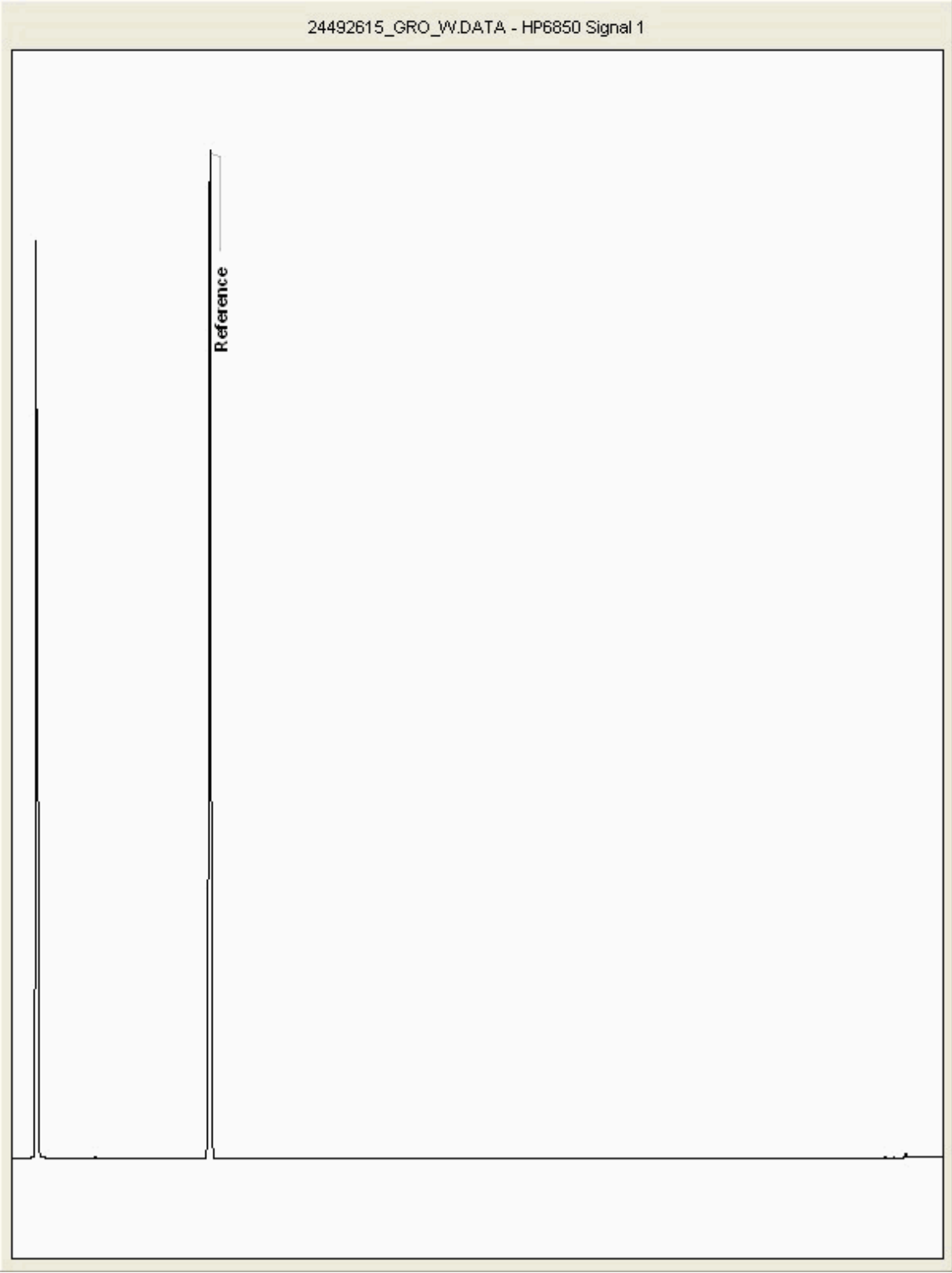
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492615 Depth : 13.00
Sample ID : BH-PTR-39





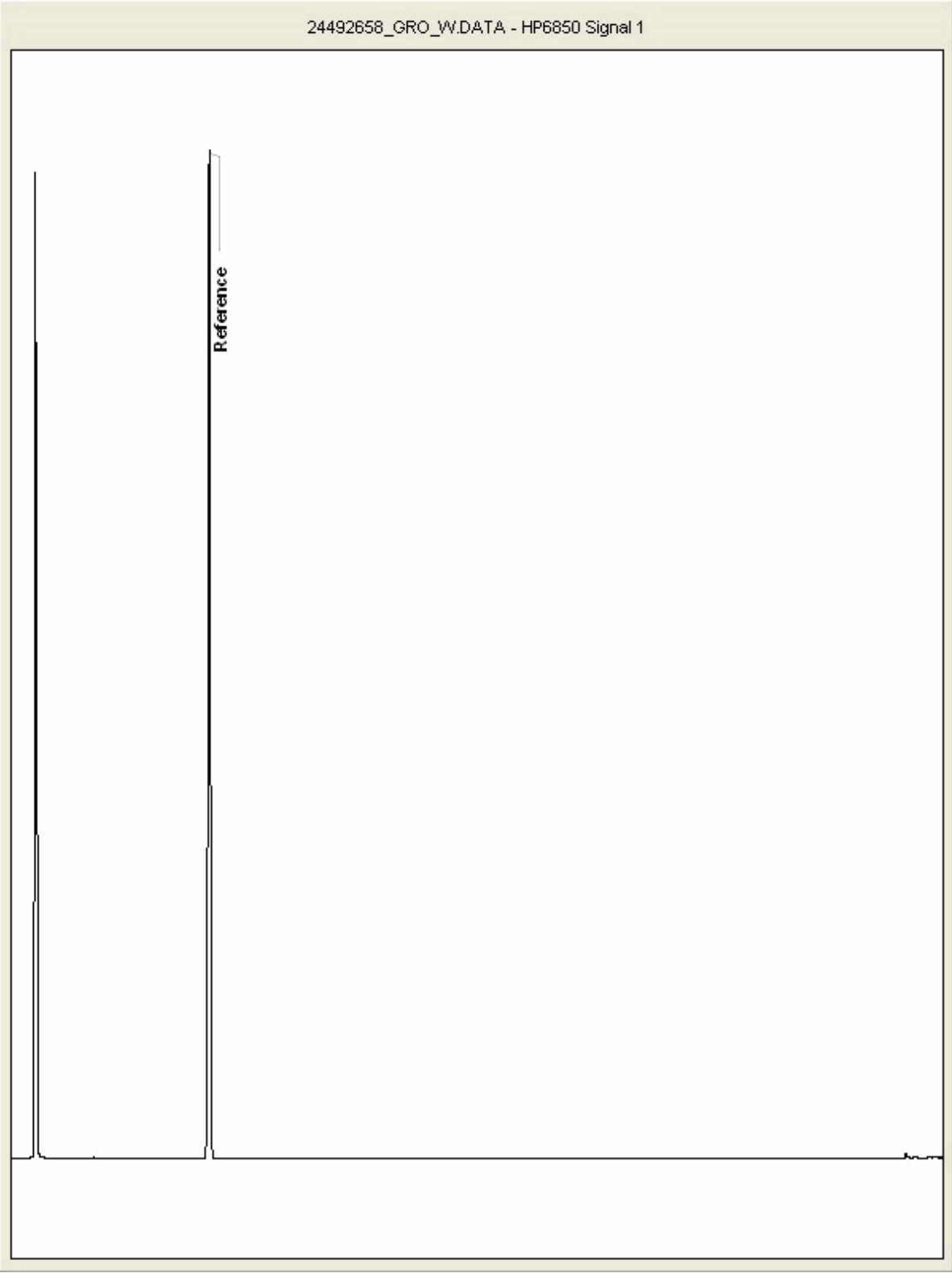
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Validated

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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492658 Depth : 7.25
Sample ID : BH-PTR-02D



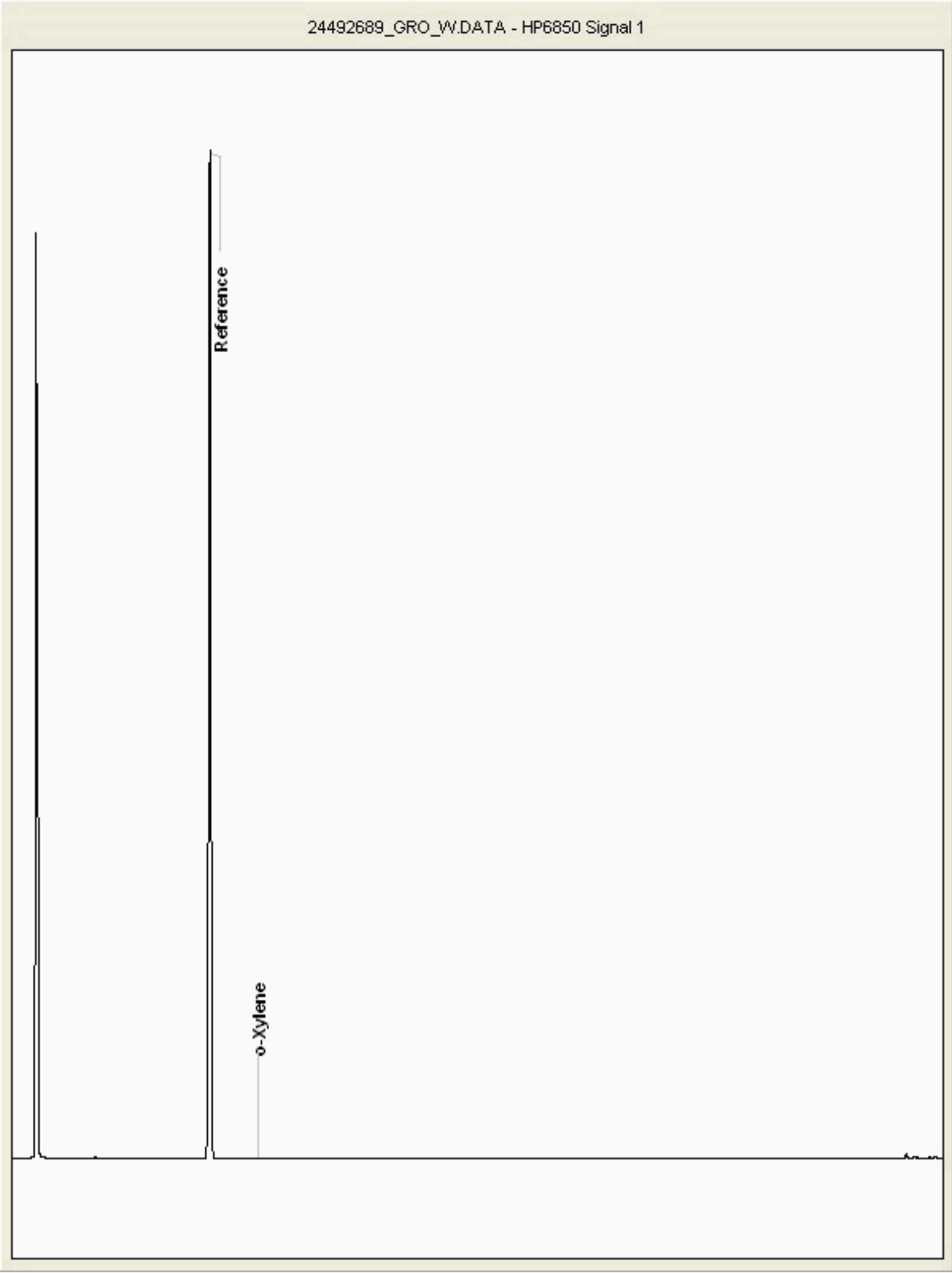
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Validated

SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492689 Depth : 8.50
Sample ID : BH-PTR-12





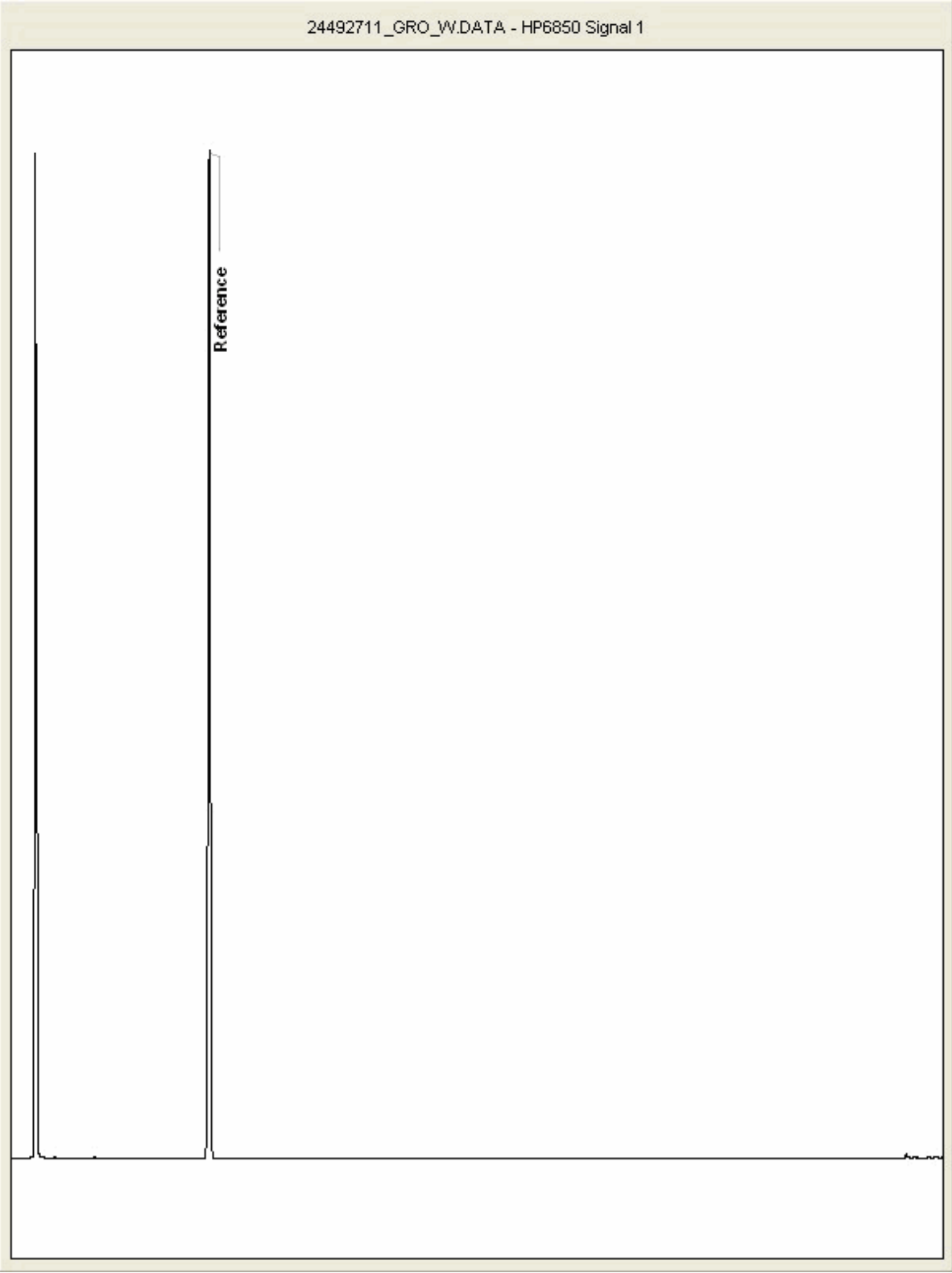
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Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492711 Depth : 7.50
Sample ID : BH-PTR-14



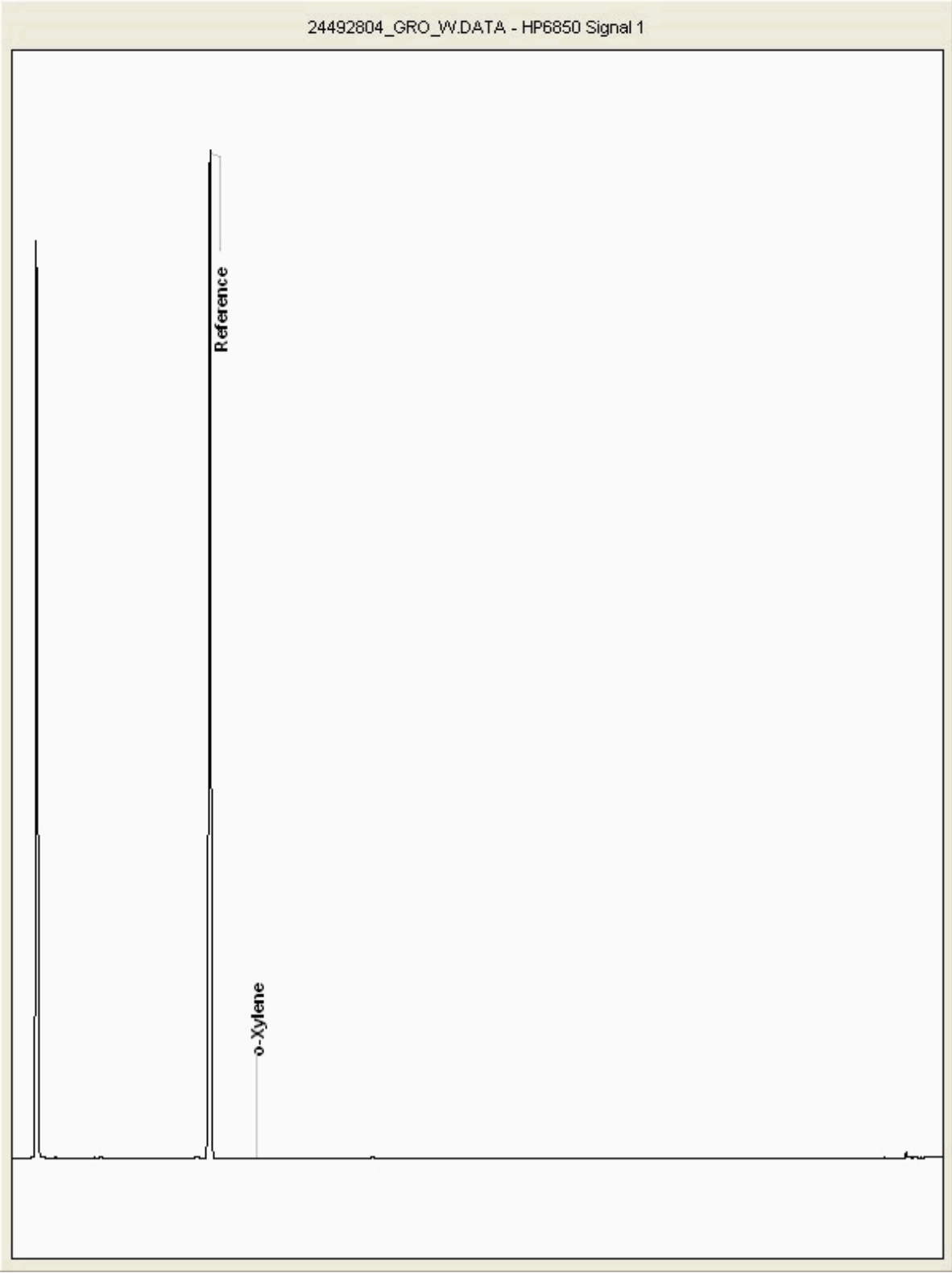
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SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24492804 Depth : 6.75
Sample ID : BH-PTR-42D





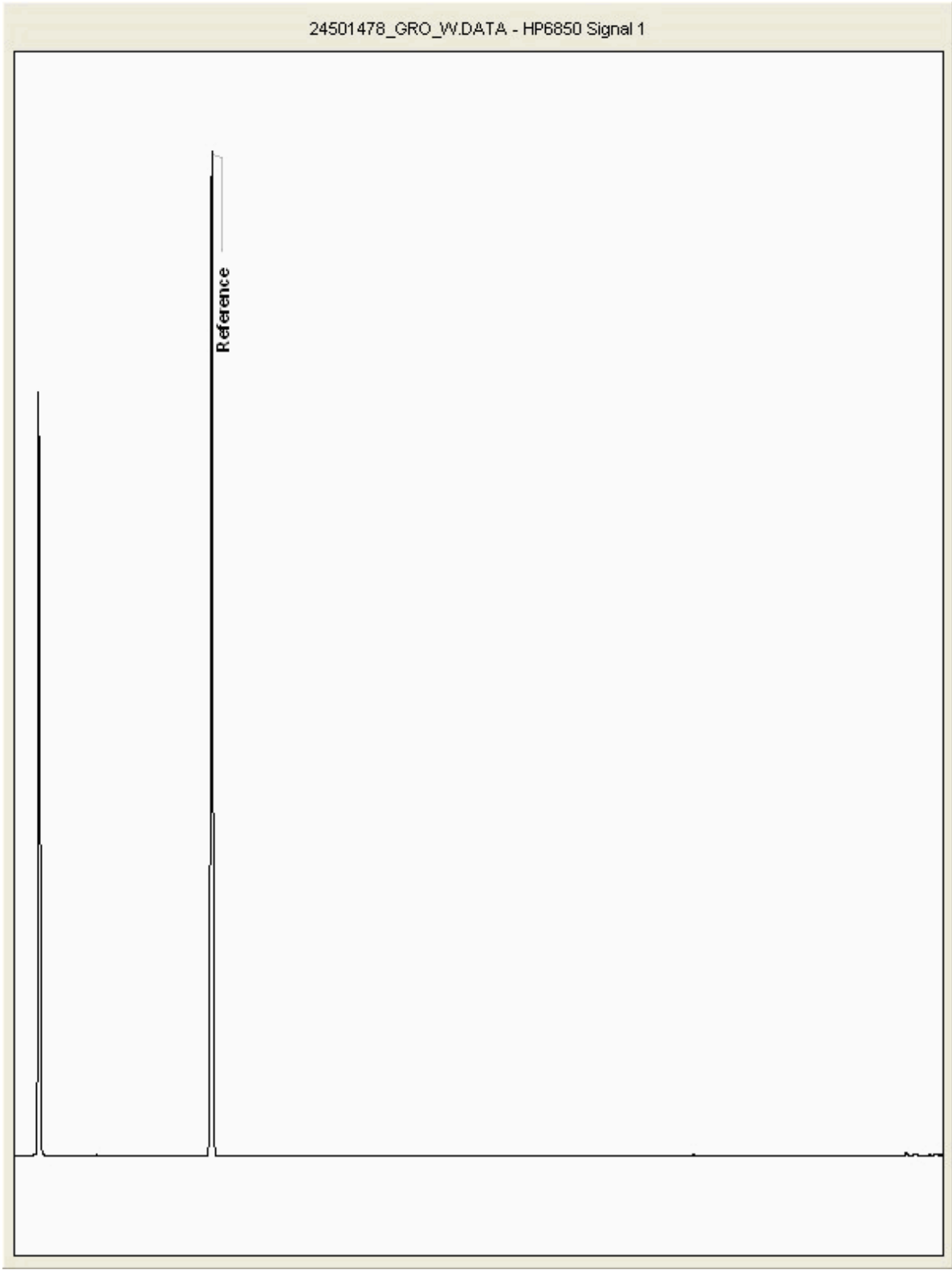
CERTIFICATE OF ANALYSIS

Validated

SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24501478 Depth : 2.75
Sample ID : BH-PTR-33S



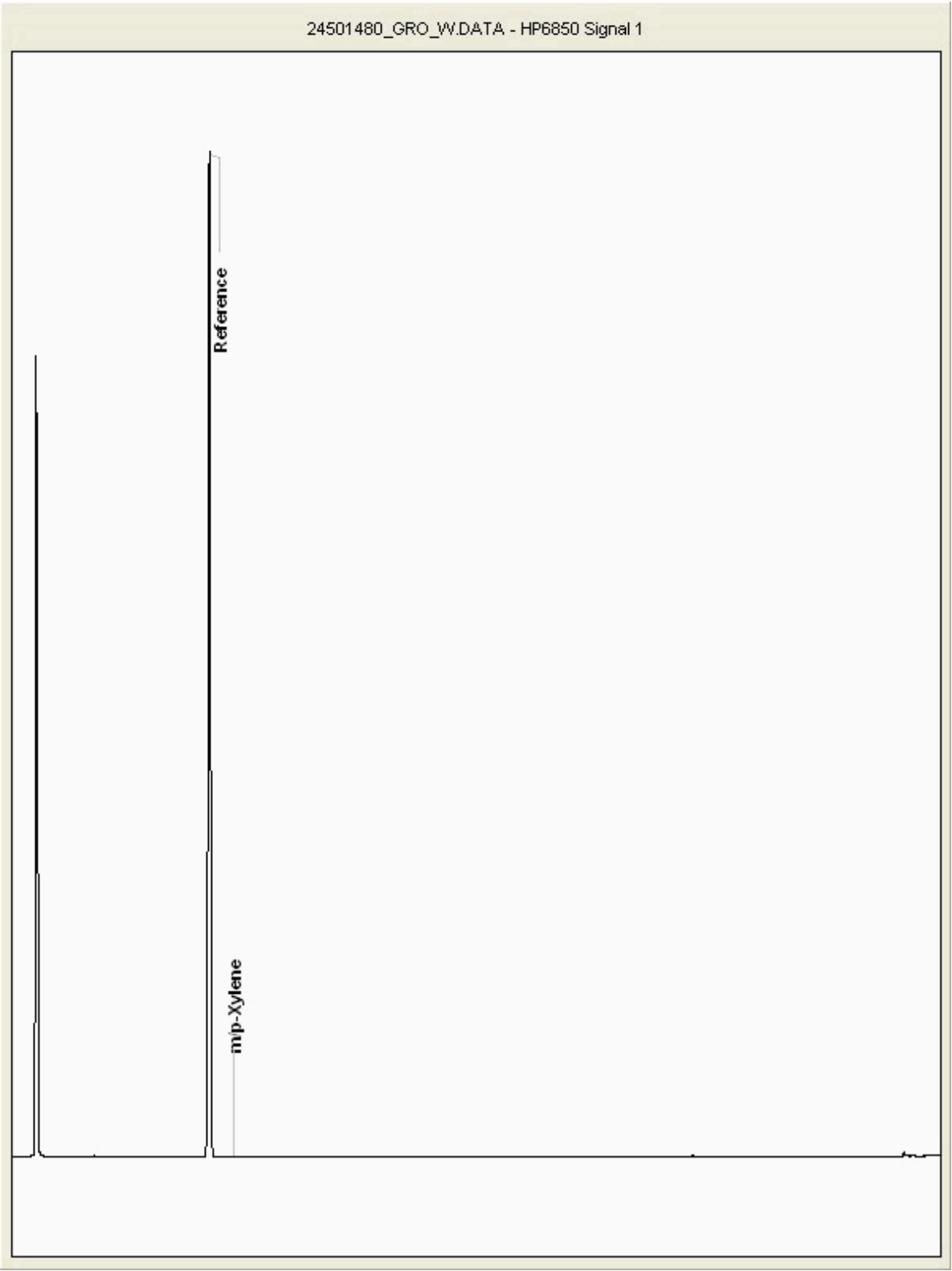
CERTIFICATE OF ANALYSIS

Validated

SDG: 210622-69 Client Reference: B025563 Report Number: 604211
Location: Cambridge South East TraOrder Number: 7000964 Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W) Sample No : 24501480 Depth : 2.10
Sample ID : BH-PTR-41S





CERTIFICATE OF ANALYSIS

SDG:	210622-69	Client Reference:	B025563	Report Number:	604211
Location:	bridge South East Transport - Ph	Order Number:	7000964	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

General

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Cambridge South East Transport – Phase 2

Factual Ground Investigation Report

APPENDIX L: SPT CALIBRATION CERTIFICATES

