



Royal Haskoning
Rightwell House
Bretton
Bretton
Peterborough
Cambridgeshire
PE3 8DW

Attention: Declan Fives

CERTIFICATE OF ANALYSIS

Date: 18 February 2014
Customer: H_RHASKON_PTB
Sample Delivery Group (SDG): 140130-67
Your Reference: 9Y0074 103 100
Location: Cole Green
Report No: 260264

This report has been revised and directly supersedes 259132 in its entirety.

We received 10 samples on Thursday January 30, 2014 and 10 of these samples were scheduled for analysis which was completed on Tuesday February 18, 2014. 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.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:

Sonia McWhan

Operations Manager





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
8768647	CG BH03		0.00	29/01/2014
8768648	CG BH16		0.00	29/01/2014
8768649	CG BH18		0.00	29/01/2014
8768655	CG BH19		0.00	29/01/2014
8768659	CG BH20		0.00	29/01/2014
8768661	CG BH21		0.00	29/01/2014
8768662	CG BH22		0.00	29/01/2014
8768642	CG SW01		0.00	29/01/2014
8768644	CG SW02		0.00	29/01/2014
8768645	CG SW03		0.00	29/01/2014

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



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LIQUID		Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	
Results Legend <input checked="" type="checkbox"/> Test <input type="checkbox"/> No Determination Possible	8768642	CG SW01		0.00	Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)		
	8768662	CG BH22		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768661	CG BH21		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768659	CG BH20		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768655	CG BH19		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768649	CG BH18		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768648	CG BH16		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	8768647	CG BH03		0.00	HNO3 Filtered (ALE H2SO4 (ALE244) Disolved Metals Pr 1l Glass bottle (ALE Vial (ALE297)	X	
	VOC MS (W)		All	NDPs: 0 Tests: 10			



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LIQUID Results Legend Test No Determination Possible	Lab Sample No(s)	8768642	8768644	8768645	
	Customer Sample Reference	CG SW01	CG SW02	CG SW03	
	AGS Reference				
	Depth (m)	0.00	0.00	0.00	
	Container	HNO3 Filtered (ALE H2SO4 (ALE244) Vial (ALE297))	HNO3 Filtered (ALE H2SO4 (ALE244) Vial (ALE297))	Dissolved Metals Pr 11 Glass bottle (ALE Vial (ALE297))	
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 10			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 10			
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 10			
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 10			
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 10			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 10			
Mercury Dissolved	All	NDPs: 0 Tests: 10			
Metals by iCap-OES Unfiltered (W)	All	NDPs: 0 Tests: 4			
OC, OP Pesticides and Triazine Herb	All	NDPs: 0 Tests: 6			
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 10			
PCB Congeners - Aqueous (W)	All	NDPs: 0 Tests: 10			
Phenols by HPLC (W)	All	NDPs: 0 Tests: 10			
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 10			
TPH CWG (W)	All	NDPs: 0 Tests: 10			
VOC MS (W)	All	NDPs: 0 Tests: 10			



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Results Legend		Customer Sample R	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67	140130-67	140130-67
1-5&*\$@	Sample deviation (see appendix)		8768647	8768648	8768649	8768655	8768659	8768661
Component	LOD/Units	Method						
Carbon, Organic (diss.filt)	<3 mg/l	TM090	11	7.28	8.33	7.54	20.2	73.7
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	5.26	<0.2	0.257	<0.2	0.247	127
Arsenic (diss.filt)	<0.12 µg/l	TM152	4.05	9.81	8.63	1.61	3.45	10.5
Barium (diss.filt)	<0.03 µg/l	TM152	230	555	144	128	141	359
Beryllium (diss.filt)	<0.07 µg/l	TM152	0.482	3.77	0.683	0.287	0.152	0.505
Boron (diss.filt)	<9.4 µg/l	TM152	433	60.4	93.2	50.6	1080	7550
Cadmium (diss.filt)	<0.1 µg/l	TM152	0.307	2.22	0.416	0.101	0.236	1.09
Chromium (diss.filt)	<0.22 µg/l	TM152	10.6	9.93	5.3	3.14	4.51	16.8
Copper (diss.filt)	<0.85 µg/l	TM152	15.3	35.9	10.9	6.03	17.5	59.5
Lead (diss.filt)	<0.02 µg/l	TM152	10.9	46.4	13.8	9.88	13.8	19.6
Nickel (diss.filt)	<0.15 µg/l	TM152	24.5	90.2	10.7	5.85	14.5	68.4
Selenium (diss.filt)	<0.39 µg/l	TM152	1.71	0.977	1.67	2.5	2.24	10.5
Vanadium (diss.filt)	<0.24 µg/l	TM152	8.31	51.2	9.75	7.38	3.65	29.8
Zinc (diss.filt)	<0.41 µg/l	TM152	40.8	103	21.3	16.3	23.4	37.9
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM228			834			963
pH	<1 pH Units	TM256						7.26
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cresols	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006	0.01	<0.006
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025



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Location: Cole Green
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Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67		
1-5&*\$@	Sample deviation (see appendix)		8768662	8768642	8768644	8768645		
Component	LOD/Units	Method						
Carbon, Organic (diss.filt)	<3 mg/l	TM090	11.3	45.1	17.2	19.7		
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	4.14	99	28	40.6		
Arsenic (diss.filt)	<0.12 µg/l	TM152	56.1	847	12.3	3.66		
Barium (diss.filt)	<0.03 µg/l	TM152	453	7490	99.5	112		
Beryllium (diss.filt)	<0.07 µg/l	TM152	3.69	0.303	<0.07	<0.07		
Boron (diss.filt)	<9.4 µg/l	TM152	101	2090	1020	822		
Cadmium (diss.filt)	<0.1 µg/l	TM152	1.81	0.301	<0.1	<0.1		
Chromium (diss.filt)	<0.22 µg/l	TM152	50.2	12.7	4.1	5.89		
Copper (diss.filt)	<0.85 µg/l	TM152	26.9	22.9	4.8	3.69		
Lead (diss.filt)	<0.02 µg/l	TM152	283	5.15	0.532	0.152		
Nickel (diss.filt)	<0.15 µg/l	TM152	67.6	53.9	20.6	13.7		
Selenium (diss.filt)	<0.39 µg/l	TM152	5.25	2.73	2.76	3.02		
Vanadium (diss.filt)	<0.24 µg/l	TM152	138	5.51	1.35	1.41		
Zinc (diss.filt)	<0.41 µg/l	TM152	469	52.6	7.85	7.24		
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01	<0.01		
PCB congener 28	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 52	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 101	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 118	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 138	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 153	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
PCB congener 180	<0.015 µg/l	TM197	<0.015	<0.015	<0.015	<0.015		
Sum of detected EC7 PCB's	<0.105 µg/l	TM197	<0.105	<0.105	<0.105	<0.105		
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM228		674		391		
pH	<1 pH Units	TM256		7.3				
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002		2 #
Cresols	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006		2 #
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008	<0.008	<0.008		2 #
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	<0.003	<0.003	<0.003		2 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006		2 #
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	<0.025	<0.025	<0.025		2



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OC, OP Pesticides and Triazine Herb

Results Legend			Customer Sample R					
#	ISO17025 accredited.	Customer Sample R Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	CG BH03	CG BH16	CG BH20	CG BH21	CG BH22	CG SW03
M	mCERTS accredited.		0.00	0.00	0.00	0.00	0.00	0.00
aq	Aqueous / settled sample.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
diss.filt	Dissolved / filtered sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67	140130-67	140130-67
1-5&*\$@	Sample deviation (see appendix)		8768647	8768648	8768659	8768661	8768662	8768645
Component	LOD/Units		Method					
Dichlorvos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mevinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
alpha-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
beta-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Malathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fenitrothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor epoxide	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan II	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulphan sulphate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Azinphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



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PAH Spec MS - Aqueous (W)

Results Legend		Customer Sample R	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67	140130-67	140130-67
1-5&*\$@	Sample deviation (see appendix)		8768647	8768648	8768649	8768655	8768659	8768661
Component	LOD/Units		Method					
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1 & #	<0.1 & #	<0.1 & #	<0.1 & #	<0.1 & #	<0.5 & #
Acenaphthene (aq)	<0.015 µg/l	TM178	0.05 & #	<0.015 & #	<0.015 & #	<0.015 & #	<0.015 & #	<0.075 & #
Acenaphthylene (aq)	<0.011 µg/l	TM178	0.082 & #	0.0207 & #	0.0112 & #	0.0172 & #	<0.011 & #	<0.055 & #
Fluoranthene (aq)	<0.017 µg/l	TM178	2.19 & #	0.505 & #	0.0702 & #	0.521 & #	0.145 & #	0.16 & #
Anthracene (aq)	<0.015 µg/l	TM178	0.231 & #	0.0426 & #	0.0177 & #	0.0368 & #	<0.015 & #	<0.075 & #
Phenanthrene (aq)	<0.022 µg/l	TM178	0.673 & #	0.147 & #	0.0243 & #	0.158 & #	0.0414 & #	<0.11 & #
Fluorene (aq)	<0.014 µg/l	TM178	0.0487 & #	<0.014 & #	<0.014 & #	<0.014 & #	<0.014 & #	<0.07 & #
Chrysene (aq)	<0.013 µg/l	TM178	1.43 & #	0.398 & #	0.0491 & #	0.421 & #	0.113 & #	0.0849 & #
Pyrene (aq)	<0.015 µg/l	TM178	2.1 & #	0.512 & #	0.0818 & #	0.548 & #	0.15 & #	0.147 & #
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	1.37 & #	0.344 & #	0.0556 & #	0.359 & #	0.0845 & #	<0.085 & #
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	3.21 & #	1.32 & #	0.12 & #	1.05 & #	0.142 & #	<0.115 & #
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	1.24 & #	0.593 & #	0.0457 & #	0.989 & #	0.117 & #	<0.135 & #
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	2.58 & #	1.01 & #	0.0864 & #	1.18 & #	0.134 & #	0.105 & #
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	0.422 & #	0.184 & #	0.0169 & #	0.251 & #	0.0304 & #	<0.08 & #
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	1.97 & #	0.874 & #	0.0824 & #	1.01 & #	0.138 & #	0.0828 & #
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	1.66 & #	0.722 & #	0.0636 & #	0.829 & #	0.103 & #	<0.07 & #
PAH, Total Detected USEPA 16 (aq)	<0.344 µg/l	TM178	19.3 &	6.67 &	0.724 &	7.37 &	1.2 &	<1.72 &



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

PAH Spec MS - Aqueous (W)

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67		
1-5&*\$@	Sample deviation (see appendix)		8768662	8768642	8768644	8768645		
Component	LOD/Units		Method					
Naphthalene (aq)	<0.1 µg/l	TM178	<0.5 & #	<1 & #	<0.1 & #	<0.1 & #		
Acenaphthene (aq)	<0.015 µg/l	TM178	0.359 & #	<0.15 & #	<0.015 & #	<0.015 & #		
Acenaphthylene (aq)	<0.011 µg/l	TM178	0.259 & #	<0.11 & #	<0.011 & #	<0.011 & #		
Fluoranthene (aq)	<0.017 µg/l	TM178	14.1 & #	<0.17 & #	<0.017 & #	0.0303 & #		
Anthracene (aq)	<0.015 µg/l	TM178	1.42 & #	<0.15 & #	<0.015 & #	<0.015 & #		
Phenanthrene (aq)	<0.022 µg/l	TM178	4.52 & #	<0.22 & #	<0.022 & #	<0.022 & #		
Fluorene (aq)	<0.014 µg/l	TM178	0.312 & #	<0.14 & #	<0.014 & #	<0.014 & #		
Chrysene (aq)	<0.013 µg/l	TM178	9.28 & #	<0.13 & #	<0.013 & #	0.02 & #		
Pyrene (aq)	<0.015 µg/l	TM178	13.7 & #	<0.15 & #	<0.015 & #	0.03 & #		
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	8.32 & #	<0.17 & #	<0.017 & #	<0.017 & #		
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	10.5 & #	<0.23 & #	<0.023 & #	0.0281 & #		
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	9.99 & #	<0.27 & #	<0.027 & #	<0.027 & #		
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	12 & #	<0.09 & #	<0.009 & #	0.0195 & #		
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	2.6 & #	<0.16 & #	<0.016 & #	<0.016 & #		
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	8.91 & #	<0.16 & #	<0.016 & #	0.0213 & #		
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	7.63 & #	<0.14 & #	<0.014 & #	0.018 & #		
PAH, Total Detected USEPA 16 (aq)	<0.344 µg/l	TM178	104 &	<3.44 &	<0.344 &	<0.344 &		



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
-	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67	140130-67	140130-67
1-5&	Sample deviation (see appendix)		8768647	8768648	8768649	8768655	8768659	8768661
Component	LOD/Units		Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
Acenaphthylene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
Acenaphthene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
Anthracene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #	<2 #		
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #	<1 #		



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
*	Subcontracted test.		140130-67	140130-67	140130-67	140130-67		
**	% 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		8768662	8768642	8768644	8768645		
(F)	Trigger breach confirmed							
1-5&	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Carbazole (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Chrysene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Dibenzofuran (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Diethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Dimethyl phthalate (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<5	<5	<5	<5	#	#
Fluoranthene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Fluorene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Hexachlorobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Pentachlorophenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Phenol (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Hexachloroethane (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Nitrobenzene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Naphthalene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Isophorone (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Phenanthrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#
Pyrene (aq)	<1 µg/l	TM176	<1	<1	<1	<1	#	#



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

TPH CWG (W)

Results Legend		Customer Sample R	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00	
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% 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								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM245	102	98	103	103	100	86	
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	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	22	<10	<10	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	326	<10	28	<10	<10	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	348	<10	28	<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	20	143	<10	<10	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	20	143	<10	<10	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	20	500	<10	28	<10	<10	



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

TPH CWG (W)

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		0.00	0.00	0.00	0.00		
aq	Aqueous / settled sample.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
diss.filt	Dissolved / filtered sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67		
1-5&*\$@	Sample deviation (see appendix)		8768662	8768642	8768644	8768645		
Component	LOD/Units		Method					
GRO Surrogate % recovery**	%	TM245	102	91	102	101		
GRO >C5-C12	<50 µg/l	TM245	<50	58	<50	<50	#	#
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	#	#
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	#	#
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	#	#
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	#	#
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	#	#
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	#	#
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11		
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28		
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/l	TM245	<10	14	<10	<10		
Aliphatics >C10-C12	<10 µg/l	TM245	<10	17	<10	<10		
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	15	<10	<10	<10		
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	186	<10	<10	<10		
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	201	<10	<10	<10		
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	11	<10	<10		
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10		
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	71	<10	<10	<10		
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	359	<10	<10	<10		
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	430	<10	<10	<10		
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	641	58	<10	<10		



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Results Legend			Customer Sample R		CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00	
M	mCERTS accredited.			Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.			29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% 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			30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014	30/01/2014
(F)	Trigger breach confirmed			140130-67	140130-67	140130-67	140130-67	140130-67	140130-67	140130-67
1-5&*\$@	Sample deviation (see appendix)			8768647	8768648	8768649	8768655	8768659	8768661	
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM208	107	111	108	110	104	103		
Toluene-d8**	%	TM208	98.3	99.2	99	98	99.2	99.3		
4-Bromofluorobenzene**	%	TM208	101	94.6	96	90.9	99.8	98.4		
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: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Results Legend		Customer Sample R	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00	0.00	0.00	
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014	29/01/2014
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% 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								
1-5&§@	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

SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Table with columns for Results Legend, Customer Sample R, and VOC MS (W) components (1,2,3-Trichlorobenzene, 1,3,5-Trichlorobenzene) across various sample IDs (CG BH03 to CG BH21). Includes LOD/Units and Method columns.



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67		
1-5&*\$@	Sample deviation (see appendix)		8768662	8768642	8768644	8768645		
Component	LOD/Units		Method					
Dibromofluoromethane**	%	TM208	109	105	106	105		
Toluene-d8**	%	TM208	99.4	99.4	99	99.9		
4-Bromofluorobenzene**	%	TM208	94.8	99.4	96.1	98.9		
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1		
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1		
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	#	#
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	#	#
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1		
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1		
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Results Legend		Customer Sample R	CG BH22	CG SW01	CG SW02	CG SW03		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00	0.00	0.00	0.00		
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
aq	Aqueous / settled sample.		29/01/2014	29/01/2014	29/01/2014	29/01/2014		
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% 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		30/01/2014	30/01/2014	30/01/2014	30/01/2014		
(F)	Trigger breach confirmed		140130-67	140130-67	140130-67	140130-67		
1-5&	Sample deviation (see appendix)		8768662	8768642	8768644	8768645		
Component	LOD/Units	Method						
1,3-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Tetrachloroethene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Dibromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2-Dibromoethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Chlorobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Ethylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
m,p-Xylene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
o-Xylene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Styrene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Bromoform	<1 µg/l	TM208	<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	#	#
1,2,3-Trichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Bromobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Propylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
2-Chlorotoluene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
4-Chlorotoluene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
tert-Butylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
sec-Butylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
4-iso-Propyltoluene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,3-Dichlorobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,4-Dichlorobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
n-Butylbenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2-Dichlorobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1	<1	<1	<1	#	#
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Hexachlorobutadiene	<1 µg/l	TM208	<1	<1	<1	<1	#	#
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1	<1	<1	<1	#	#
Naphthalene	<1 µg/l	TM208	<1	<1	<1	<1	#	#



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

VOC MS (W)

Table with columns: Results Legend, Customer Sample R, CG BH22, CG SW01, CG SW02, CG SW03, Component, LOD/Units, Method. Rows include 1,2,3-Trichlorobenzene and 1,3,5-Trichlorobenzene.



CERTIFICATE OF ANALYSIS

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
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: Part 2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
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		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
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		
TM191	Standard Methods for the examination of waters and wastewaters 16th Edition, ALPHA, Washington DC, USA. ISBN 0-87553-131-8.	Determination of Unfiltered Metals in Water Matrices by ICP-MS		
TM197	Modified: US EPA Method 8082.EA Method 174 and 5109631	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters		
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		
TM231	Agilent 6890 Gas Chromatograph system using an Agilent 5973 Mass Selective Detector (MSD)	Determination of Organochlorine and Organophosphorus Pesticides and Triazine Herbicides by GCMS		
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		

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
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Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Test Completion Dates

Lab Sample No(s)	8768647	8768648	8768649	8768655	8768659	8768661	8768662	8768642	8768644	8768645
Customer Sample Ref.	CG BH03	CG BH16	CG BH18	CG BH19	CG BH20	CG BH21	CG BH22	CG SW01	CG SW02	CG SW03
AGS Ref.										
Depth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Ammoniacal Nitrogen	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014
Dissolved Metals by ICP-MS	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	07-Feb-2014	05-Feb-2014	07-Feb-2014	05-Feb-2014	05-Feb-2014
Dissolved Organic/Inorganic Carbon	03-Feb-2014	03-Feb-2014	03-Feb-2014	03-Feb-2014	03-Feb-2014	04-Feb-2014	03-Feb-2014	04-Feb-2014	03-Feb-2014	03-Feb-2014
EPH CWG (Aliphatic) Aqueous GC (W)	06-Feb-2014	06-Feb-2014	06-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
EPH CWG (Aromatic) Aqueous GC (W)	06-Feb-2014	06-Feb-2014	06-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
GRO by GC-FID (W)	02-Feb-2014	30-Jan-2014	30-Jan-2014	31-Jan-2014	02-Feb-2014	02-Feb-2014	30-Jan-2014	02-Feb-2014	02-Feb-2014	02-Feb-2014
Mercury Dissolved	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014	04-Feb-2014
Metals by iCap-OES Unfiltered (W)			03-Feb-2014			03-Feb-2014		03-Feb-2014		03-Feb-2014
OC, OP Pesticides and Triazine Herb	06-Feb-2014	06-Feb-2014			06-Feb-2014	06-Feb-2014	06-Feb-2014			06-Feb-2014
PAH Spec MS - Aqueous (W)	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014	18-Feb-2014
PCB Congeners - Aqueous (W)	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
pH Value						06-Feb-2014		05-Feb-2014		
Phenols by HPLC (W)	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
SVOC MS (W) - Aqueous	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
TPH CWG (W)	06-Feb-2014	06-Feb-2014	06-Feb-2014	05-Feb-2014	05-Feb-2014	05-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014	06-Feb-2014
VOC MS (W)	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014	31-Jan-2014



SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

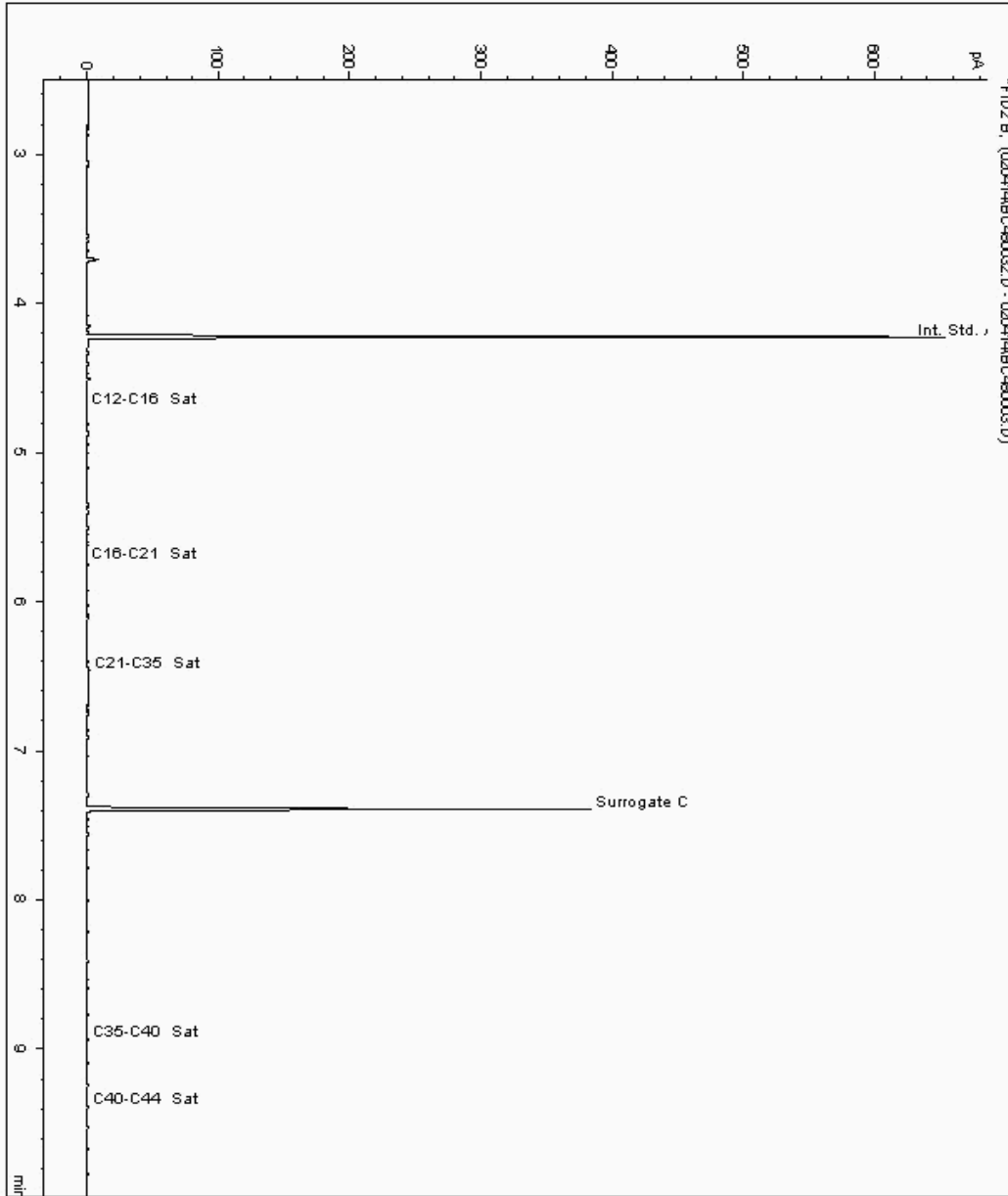
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783170
Sample ID : CG BH19

Depth : 0.00

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

Sample Identity: 8349895-8783170
Date Acquired : 05/02/2014 01:44:57 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

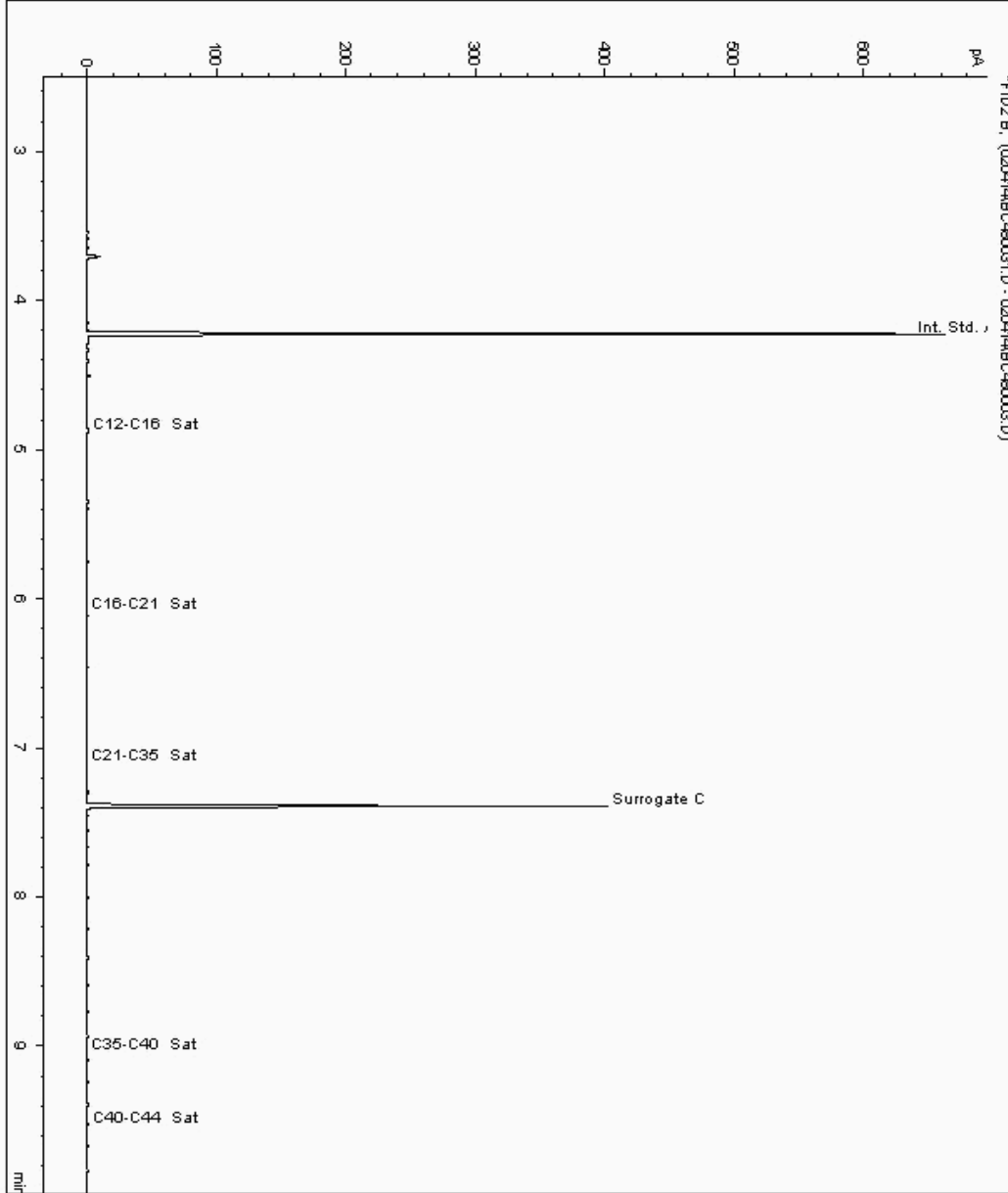
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783180
Sample ID : CG BH20

Depth : 0.00

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

Sample Identity: 8349909-8783180
Date Acquired : 05/02/2014 01:25:52 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

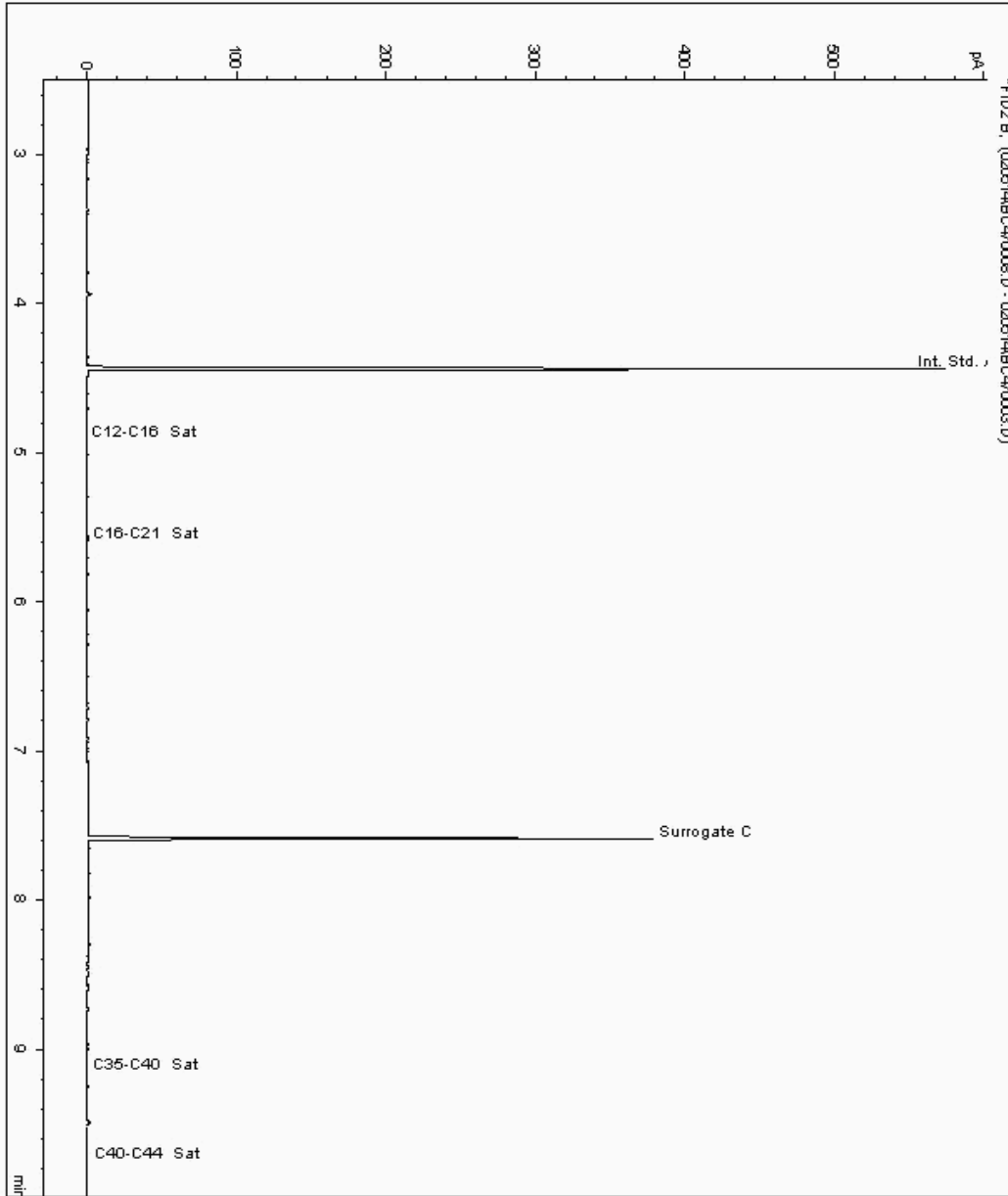
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783188
Sample ID : CG BH22

Depth : 0.00

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

Sample Identity: 8349940-8783188
Date Acquired : 05/02/14 18:33:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

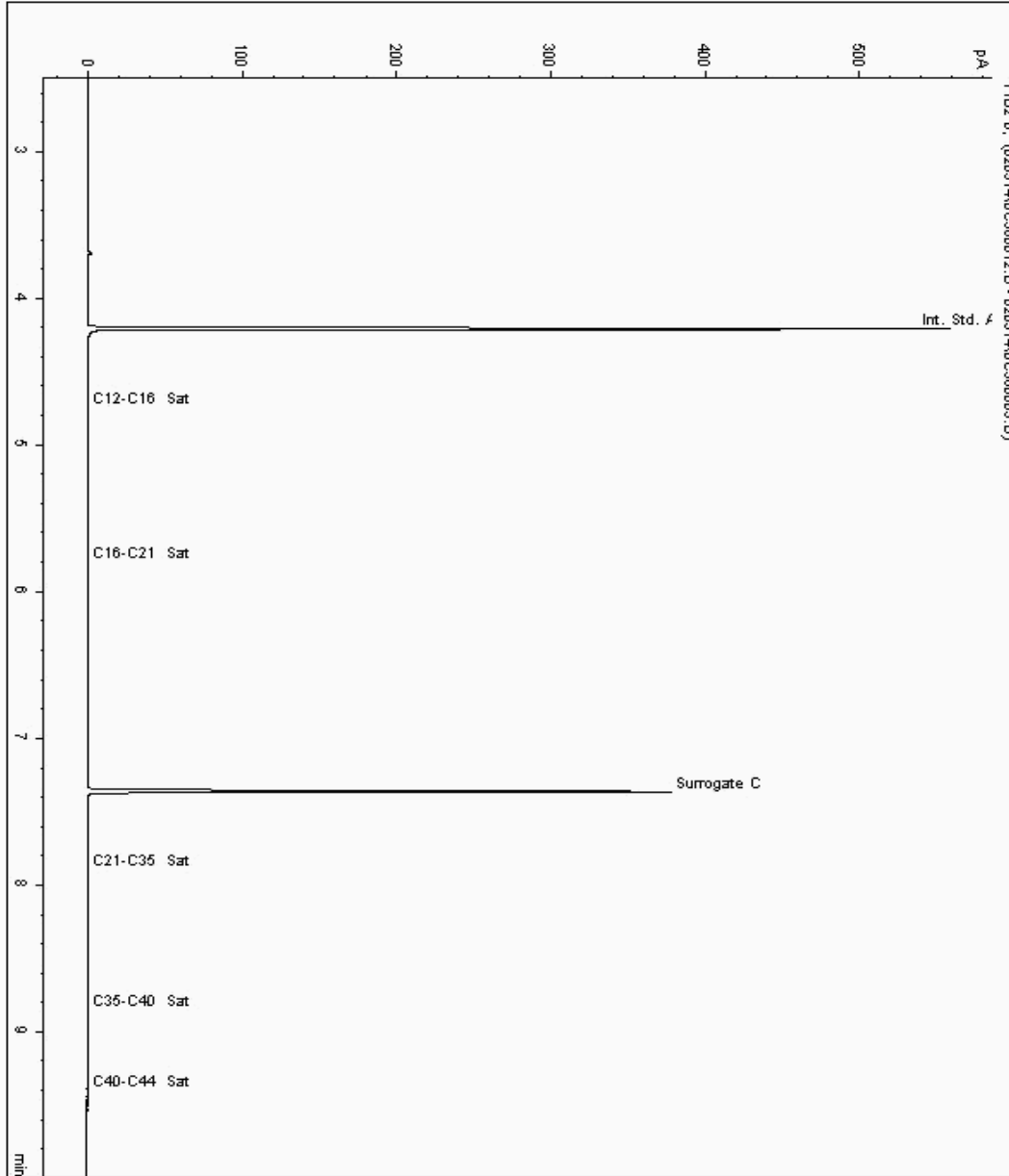
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783195
Sample ID : CG SW02

Depth : 0.00

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

Sample Identity: 8349819-8783195
Date Acquired : 05/02/14 19:18:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

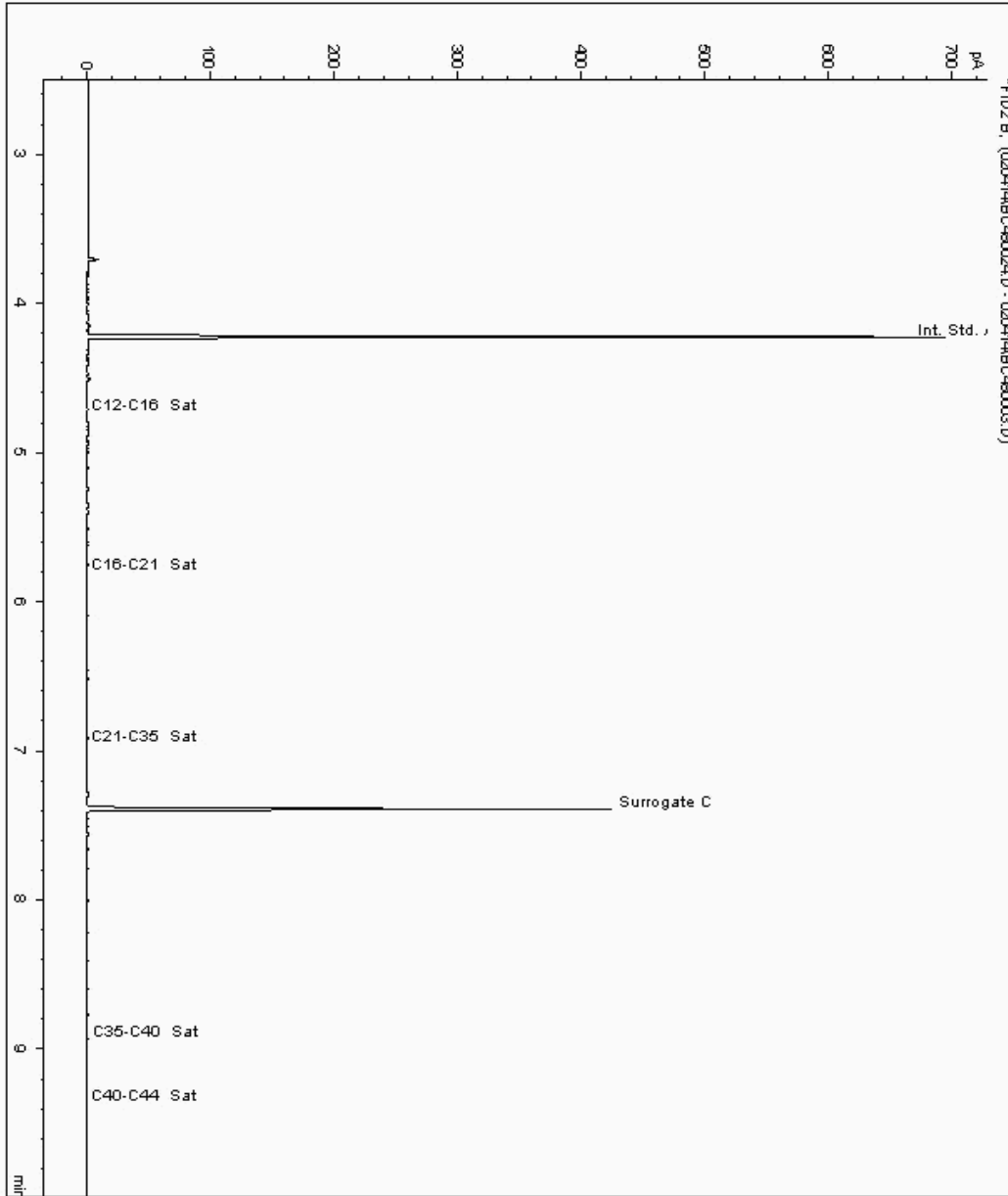
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783198
Sample ID : CG BH21

Depth : 0.00

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

Sample Identity: 8349924-8783198
Date Acquired : 04/02/2014 23:12:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

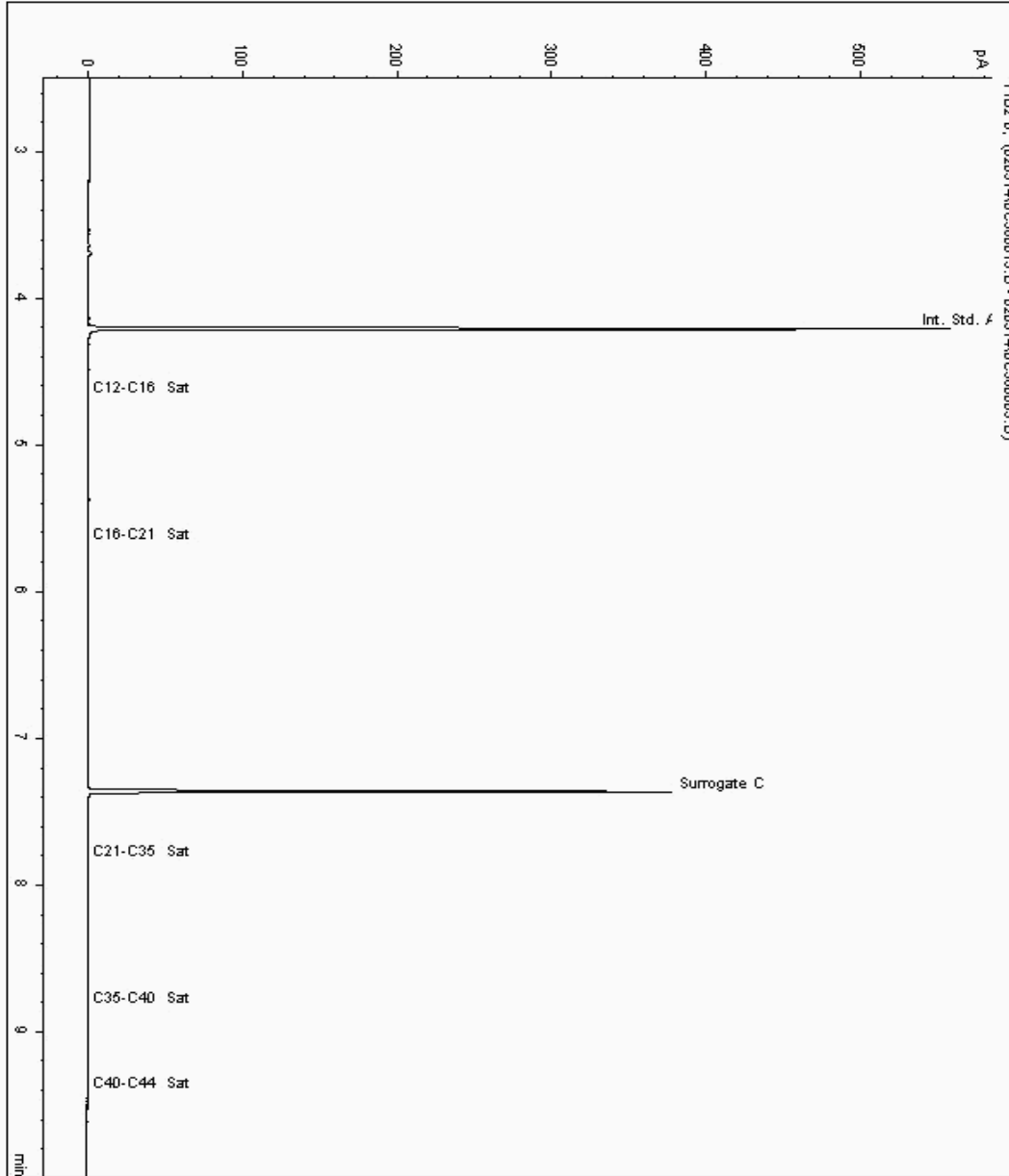
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783201
Sample ID : CG SW01

Depth : 0.00

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

Sample Identity: 8349804-8783201
Date Acquired : 05/02/14 19:37:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

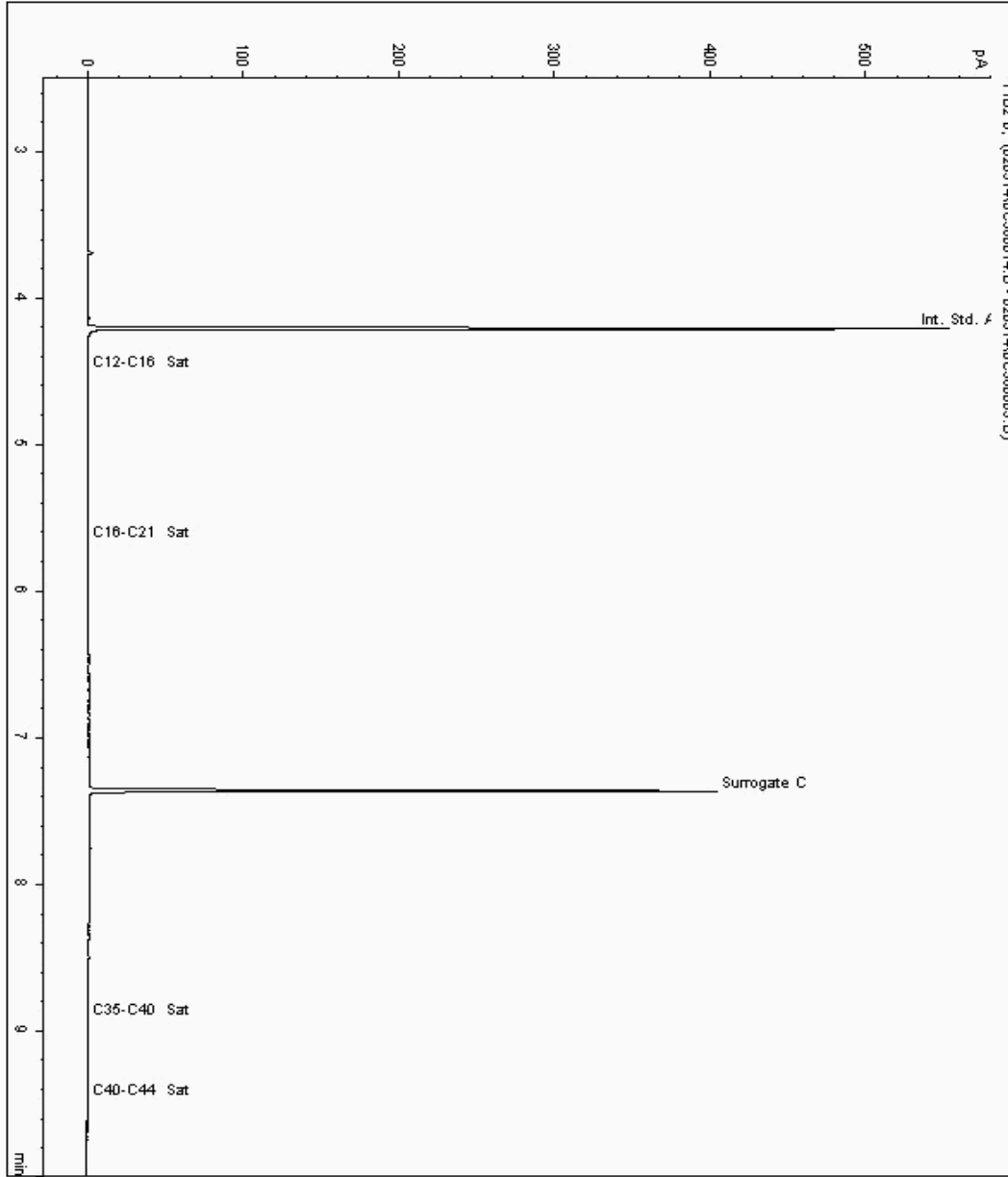
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783360
Sample ID : CG BH16

Depth : 0.00

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

Sample Identity: 8349867-8783360
Date Acquired : 05/02/14 19:55:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

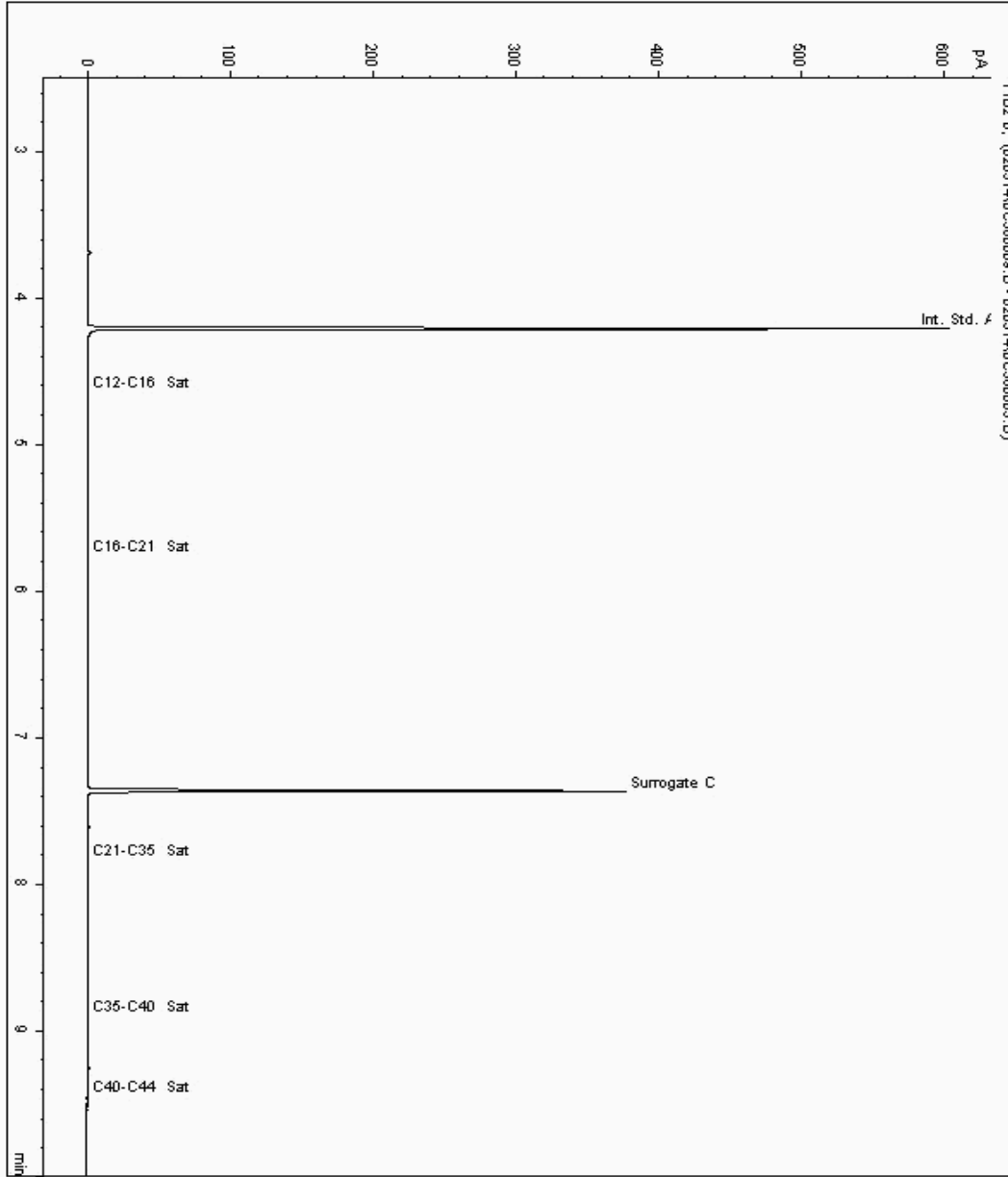
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783366
Sample ID : CG BH03

Depth : 0.00

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

Sample Identity: 8349853-8783366
Date Acquired : 05/02/14 18:31:12 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

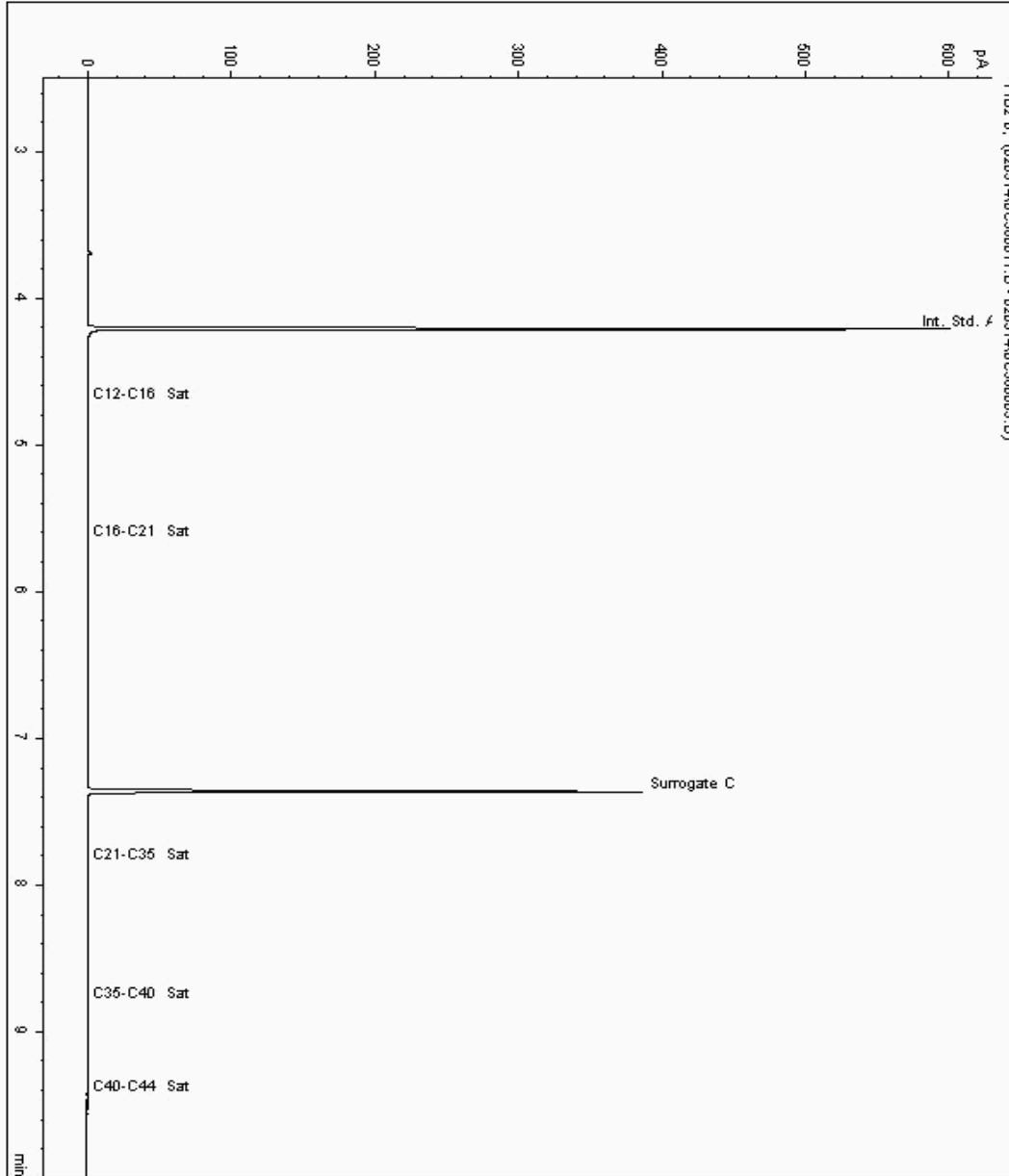
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783372
Sample ID : CG SW03

Depth : 0.00

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

Sample Identity: 8349834-8783372
Date Acquired : 05/02/14 18:59:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

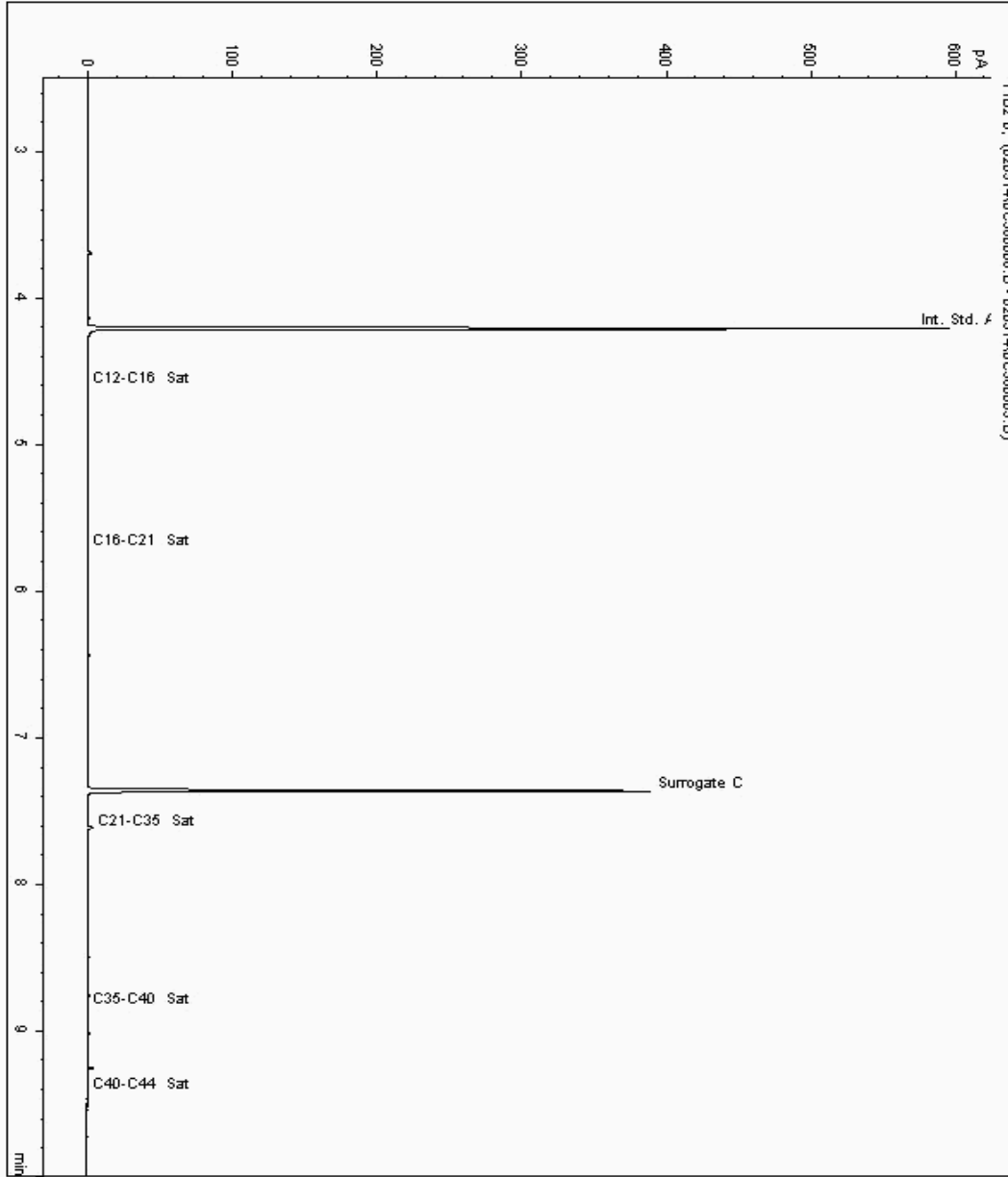
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 8783375
Sample ID : CG BH18

Depth : 0.00

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

Sample Identity: 8349880-8783375
Date Acquired : 05/02/14 18:12:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

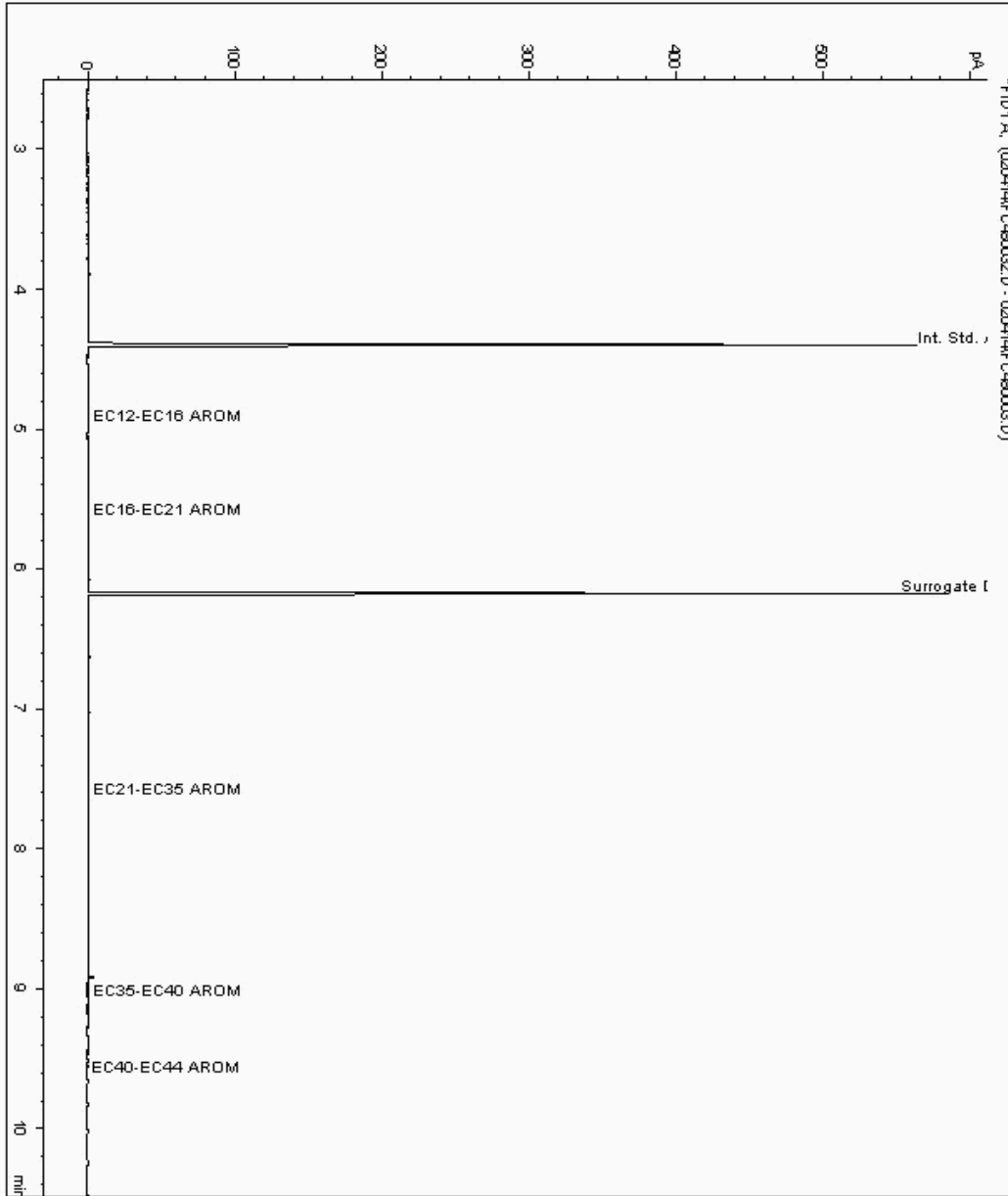
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783170
Sample ID : CG BH19

Depth : 0.00

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

Sample Identity: 8349896-8783170
Date Acquired : 05/02/2014 01:44:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

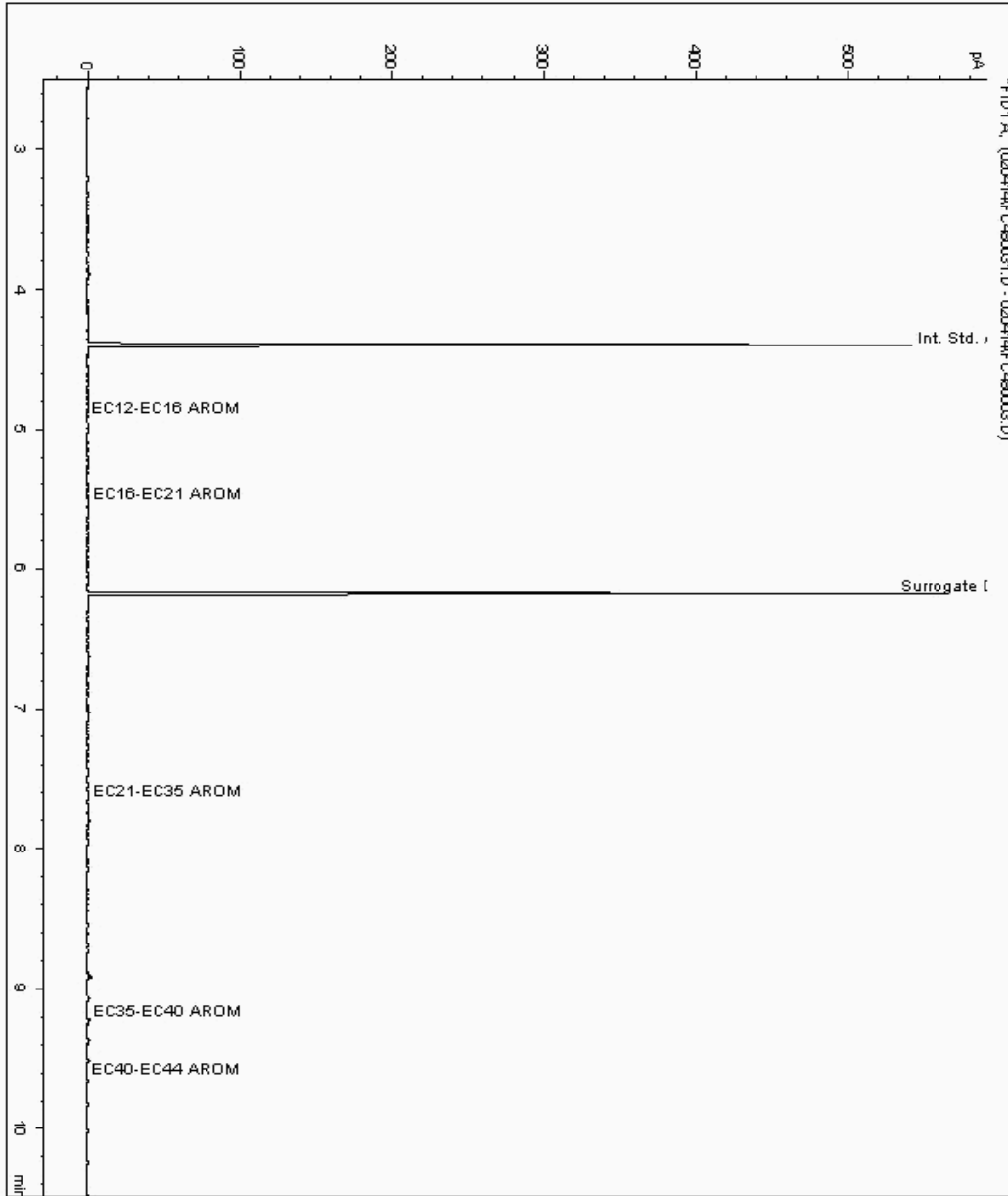
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783180
Sample ID : CG BH20

Depth : 0.00

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

Sample Identity: 8349910-8783180
Date Acquired : 05/02/2014 01:25:52 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

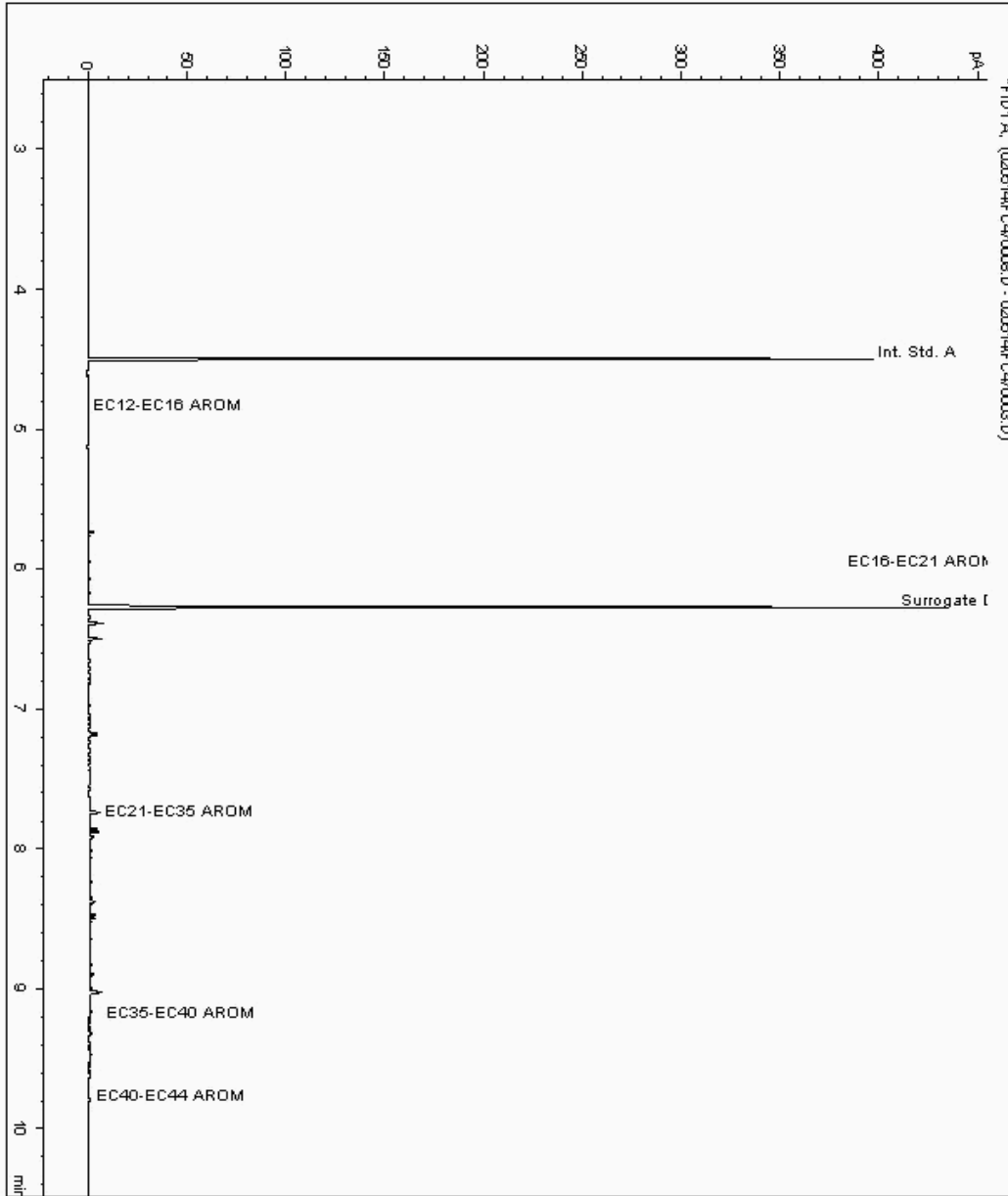
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783188
Sample ID : CG BH22

Depth : 0.00

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

Sample Identity: 8349941-8783188
Date Acquired : 05/02/14 18:33:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

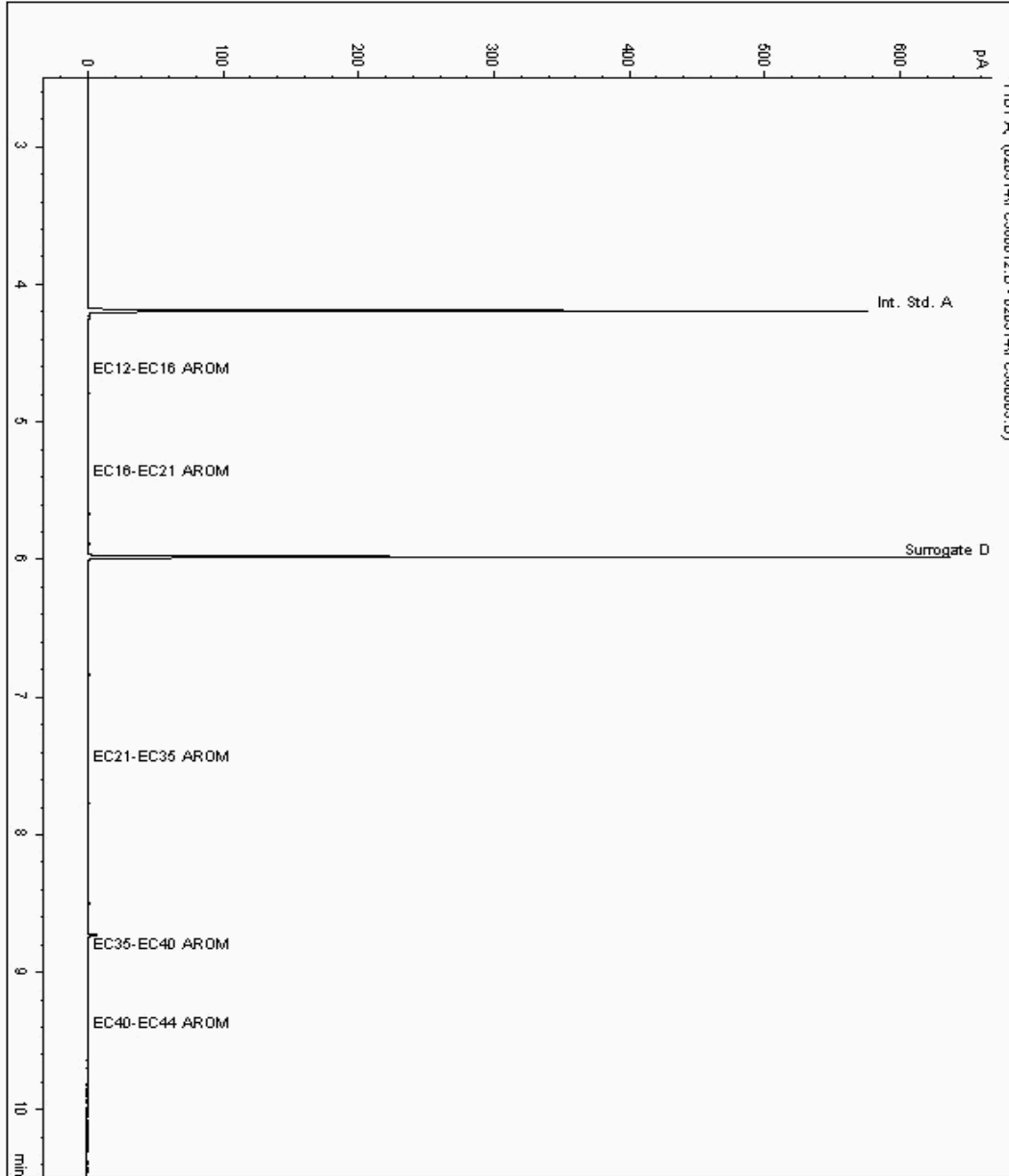
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783195
Sample ID : CG SW02

Depth : 0.00

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

Sample Identity: 8349820-8783195
Date Acquired : 05/02/14 19:18:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

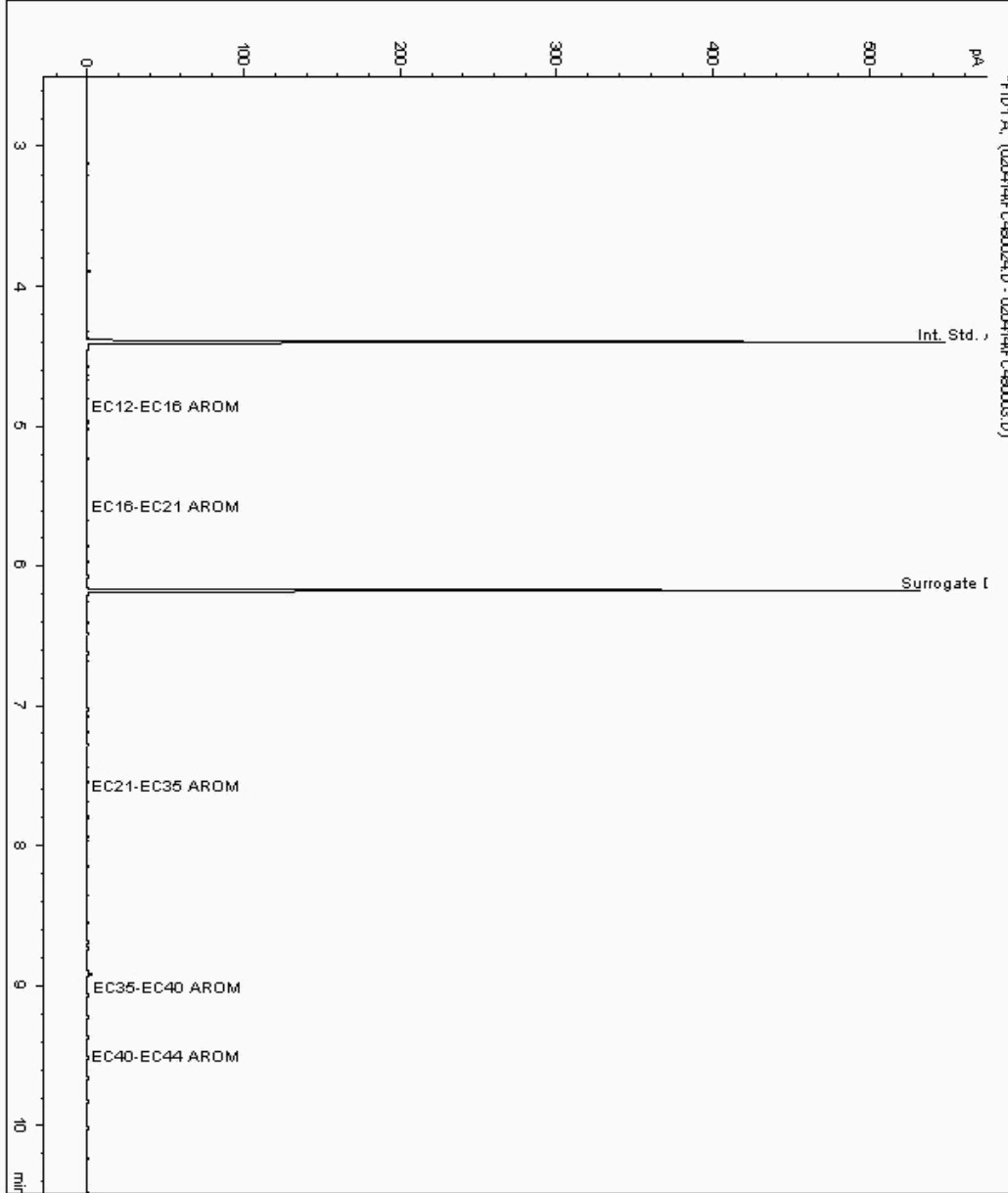
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783198
Sample ID : CG BH21

Depth : 0.00

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

Sample Identity: 8349925-8783198
Date Acquired : 04/02/2014 23:12:16 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

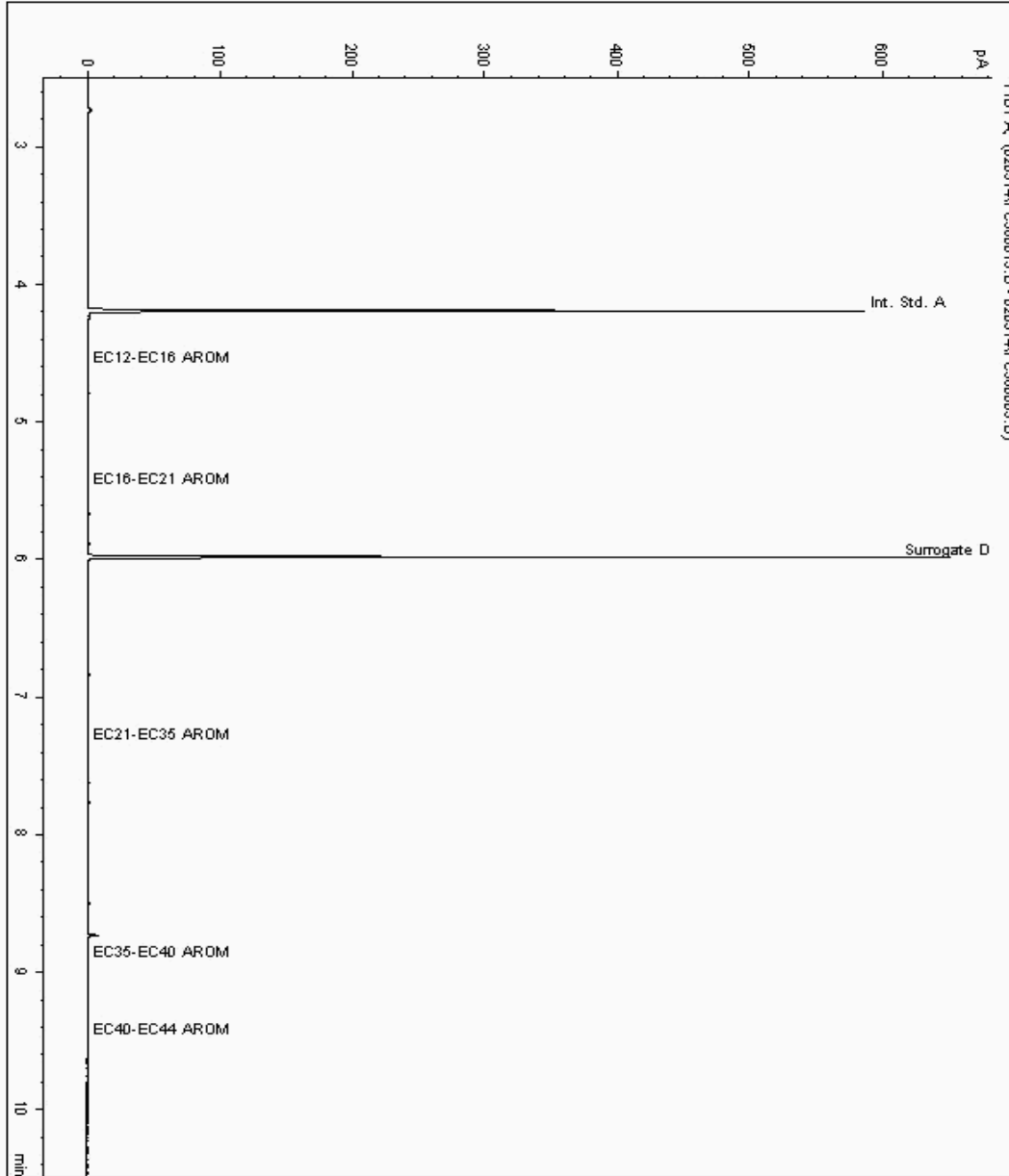
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783201
Sample ID : CG SW01

Depth : 0.00

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

Sample Identity: 8349805-8783201
Date Acquired : 05/02/14 19:37:13 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

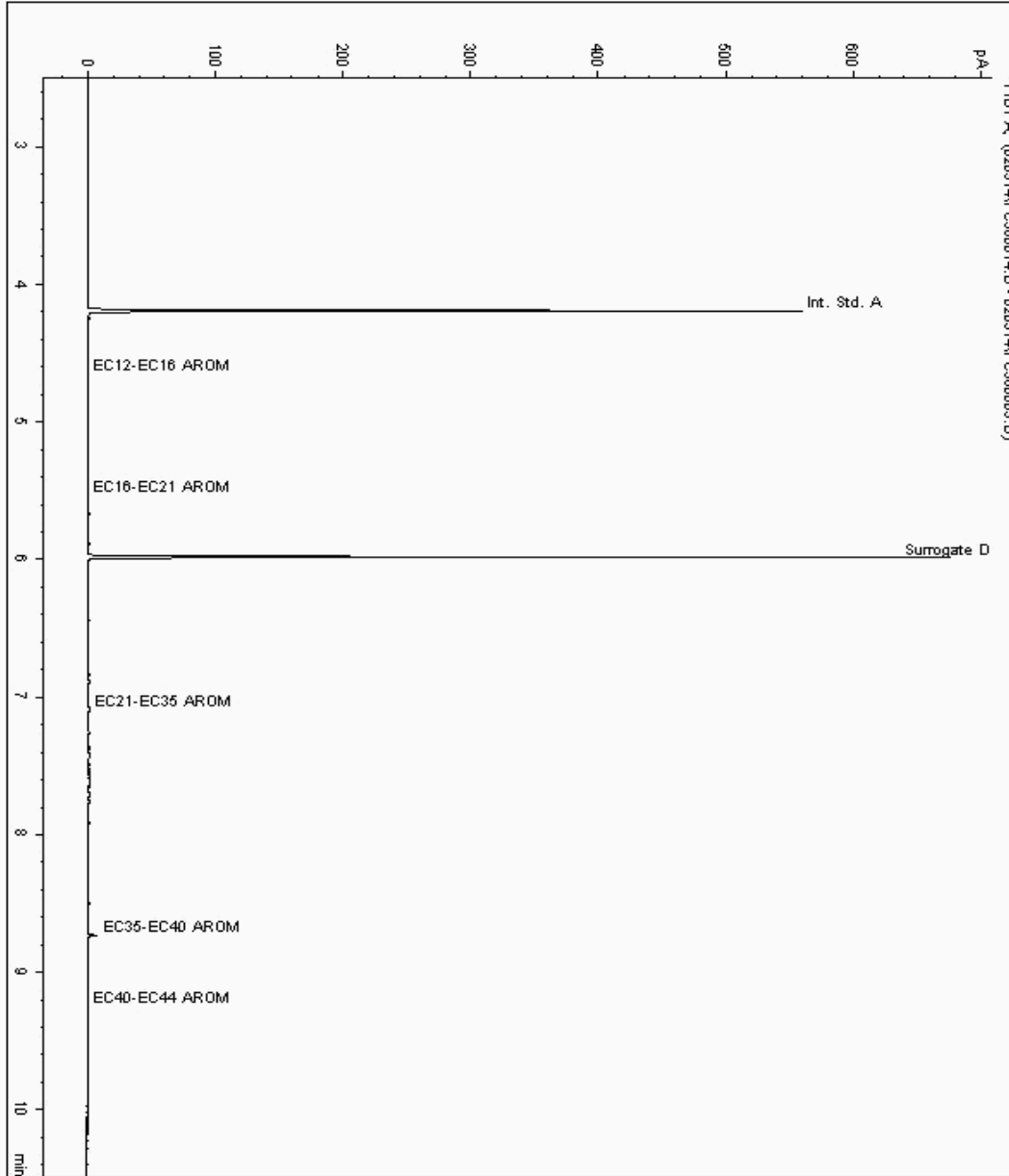
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783360
Sample ID : CG BH16

Depth : 0.00

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

Sample Identity: 8349868-8783360
Date Acquired : 05/02/14 19:55:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

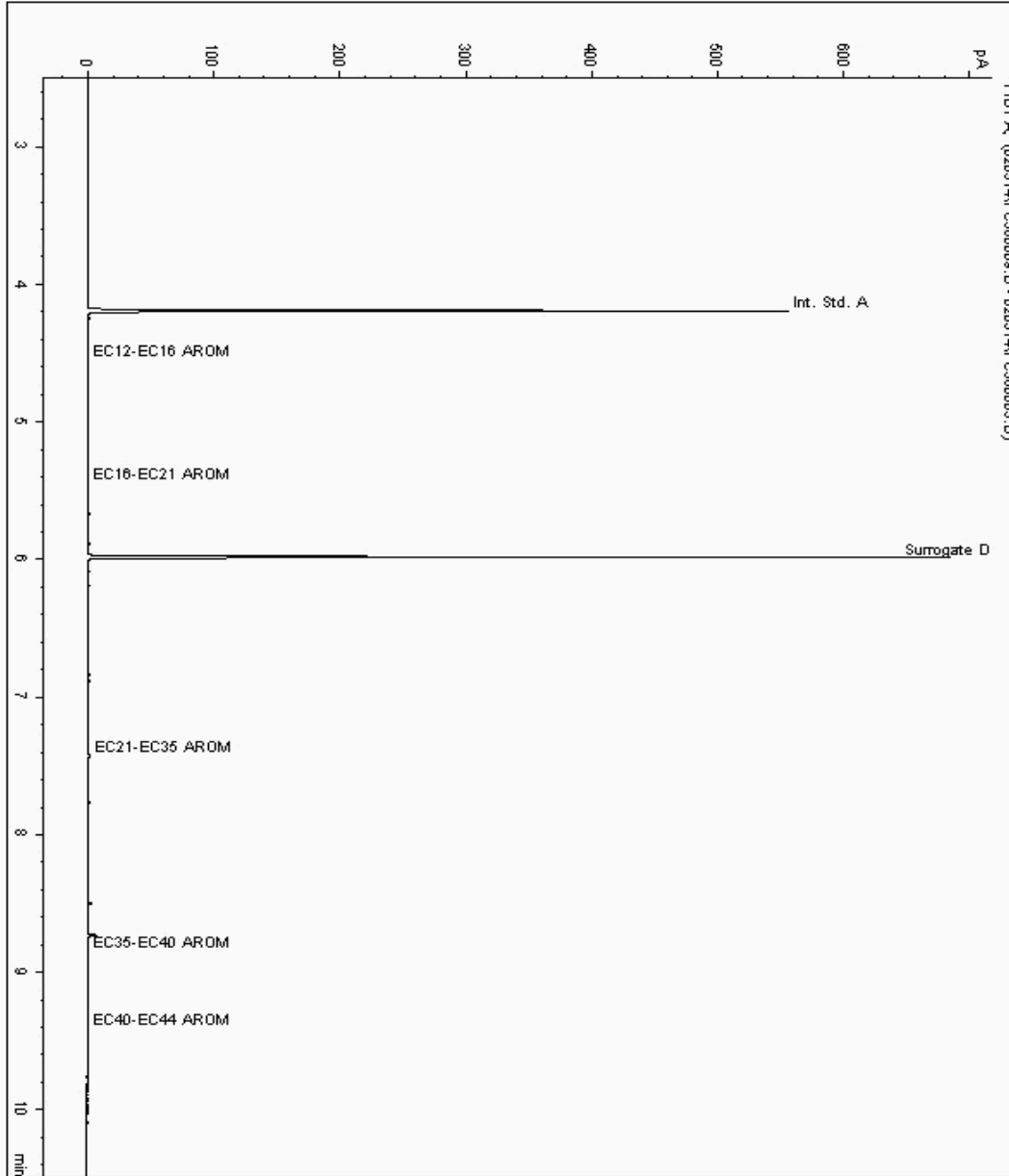
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783366
Sample ID : CG BH03

Depth : 0.00

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

Sample Identity: 8349854-8783366
Date Acquired : 05/02/14 18:31:11 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

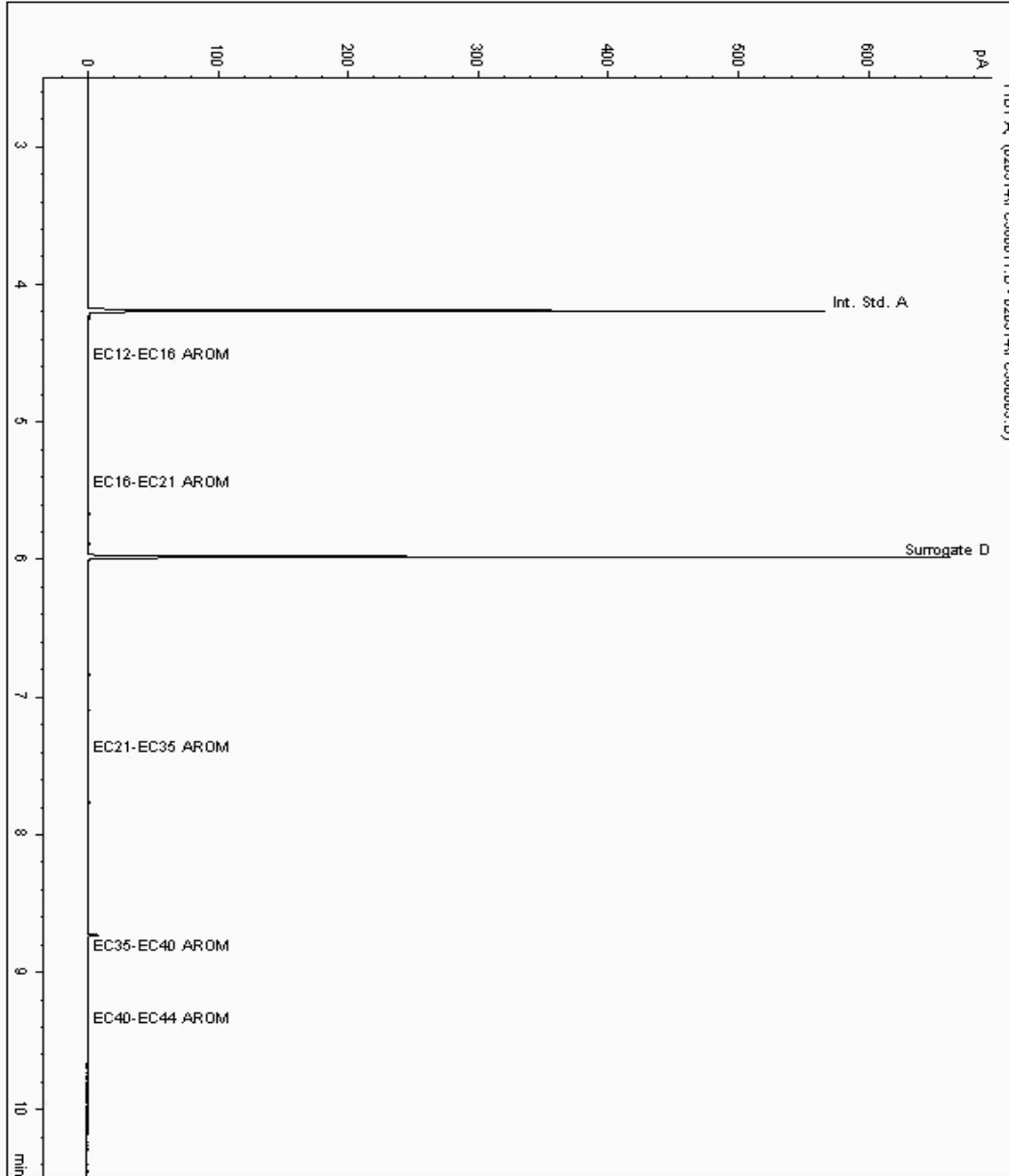
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783372
Sample ID : CG SW03

Depth : 0.00

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

Sample Identity: 8349835-8783372
Date Acquired : 05/02/14 18:59:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

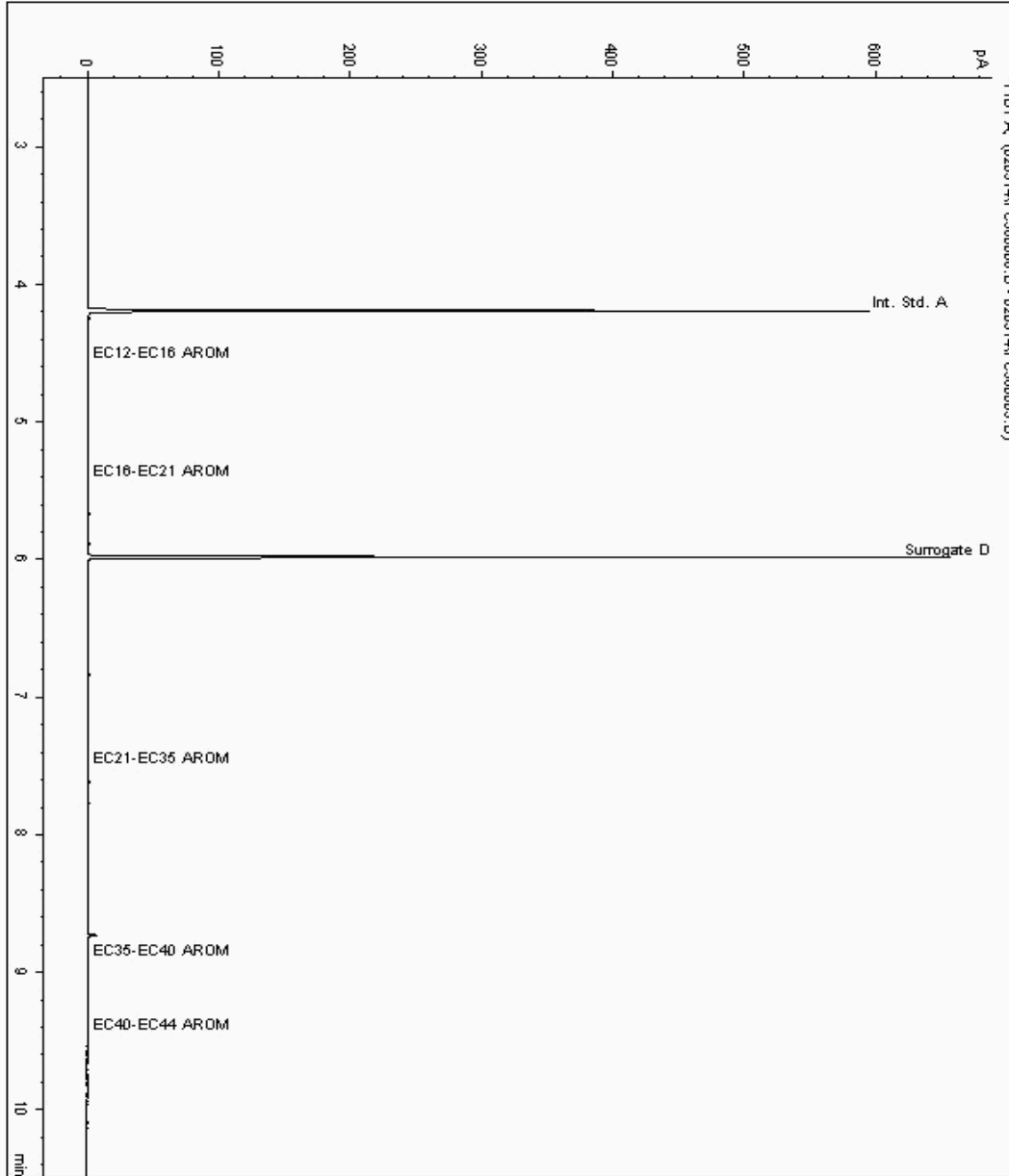
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 8783375
Sample ID : CG BH18

Depth : 0.00

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

Sample Identity: 8349881-8783375
Date Acquired : 05/02/14 18:12:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

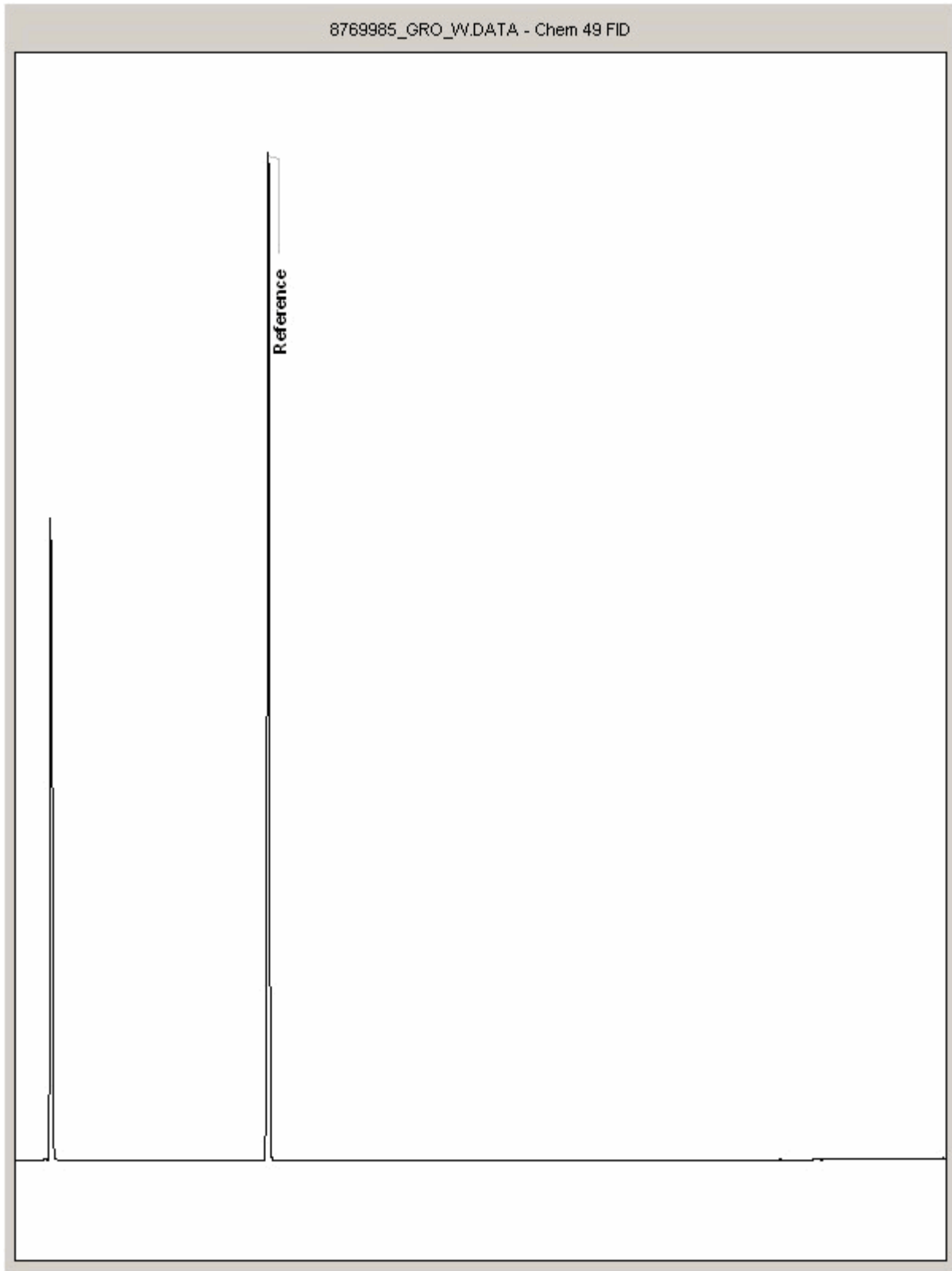
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8769985
Sample ID : CG BH16

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

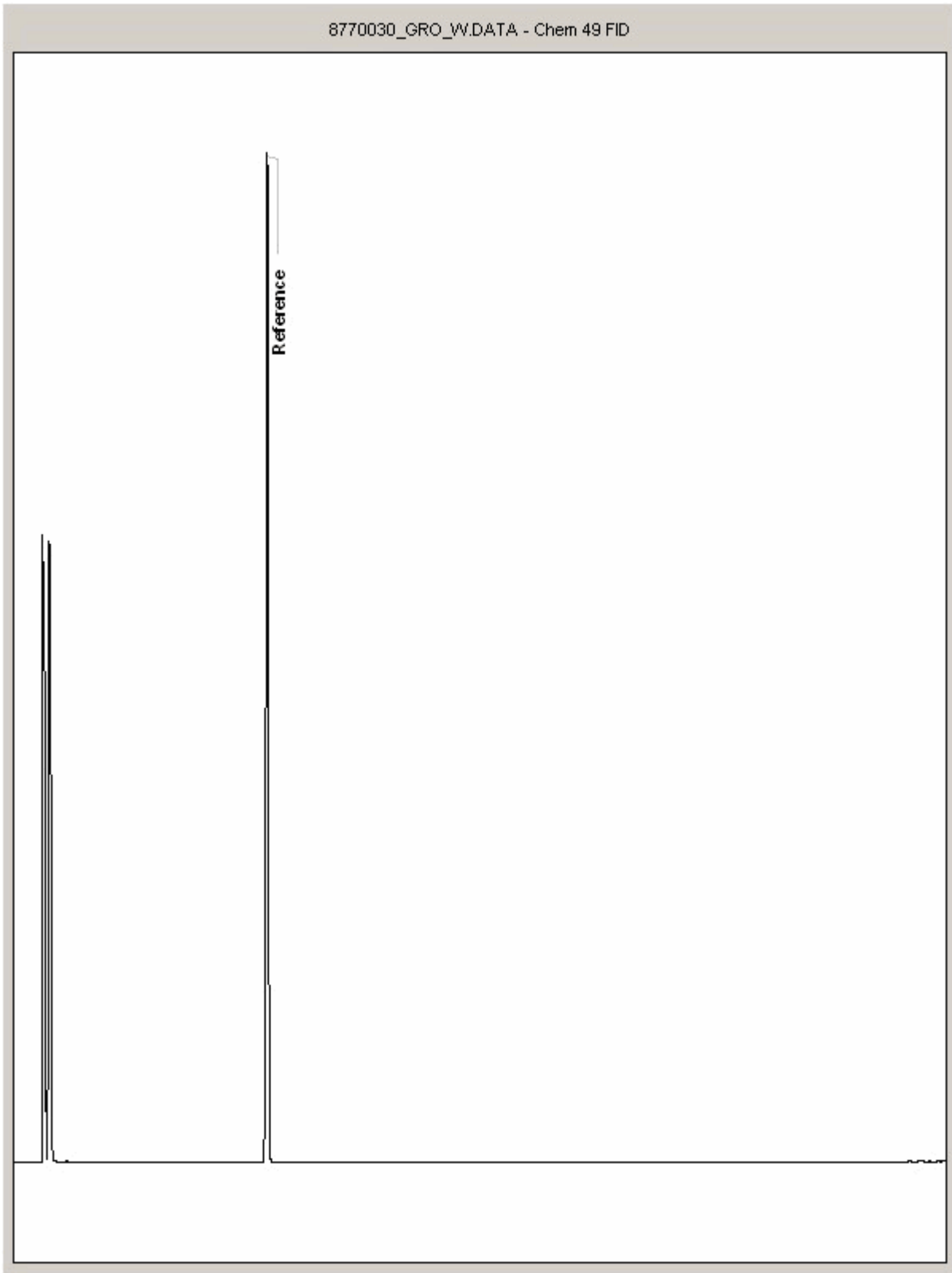
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8770030
Sample ID : CG BH22

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

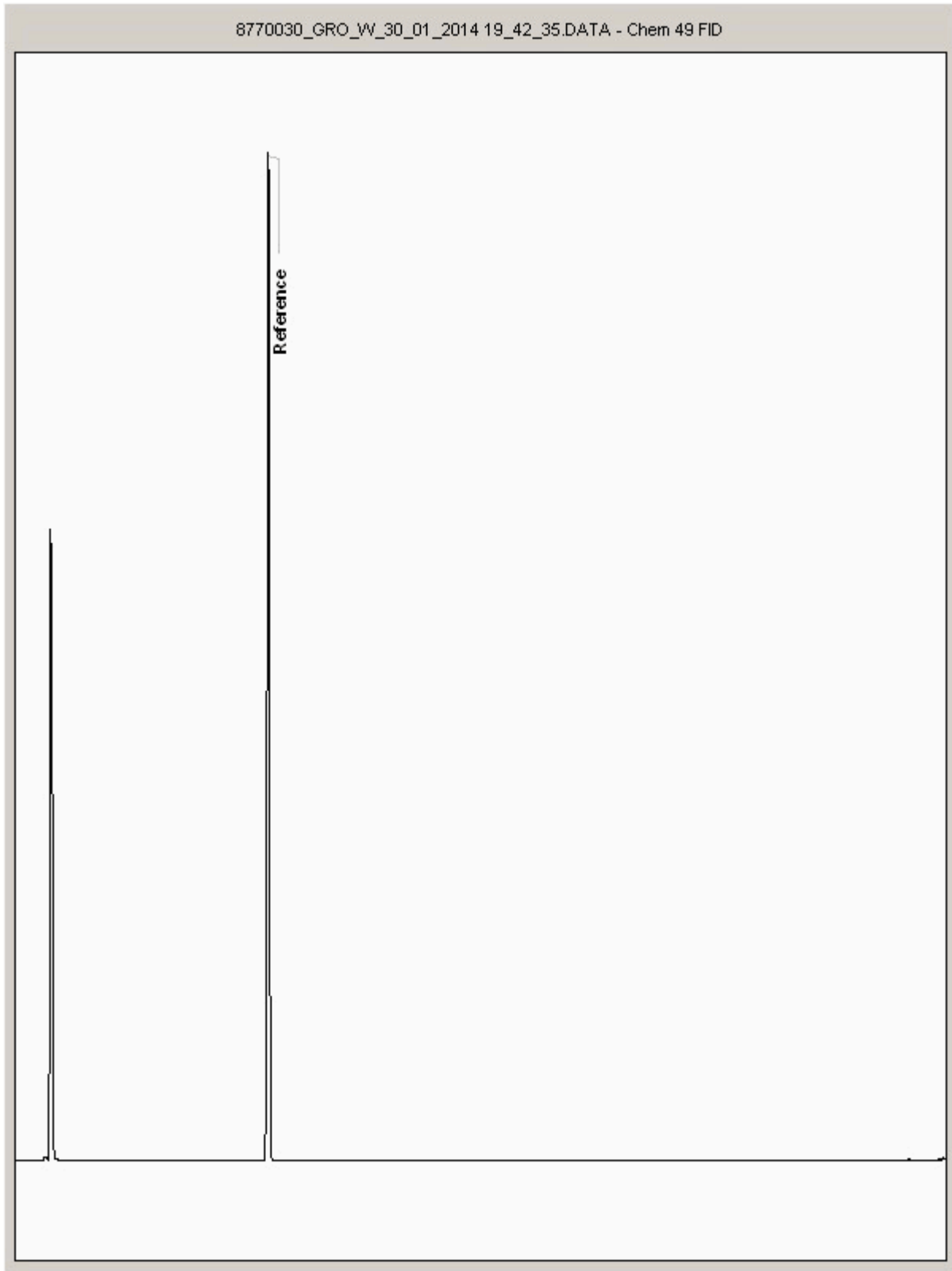
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8770055
Sample ID : CG BH18

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

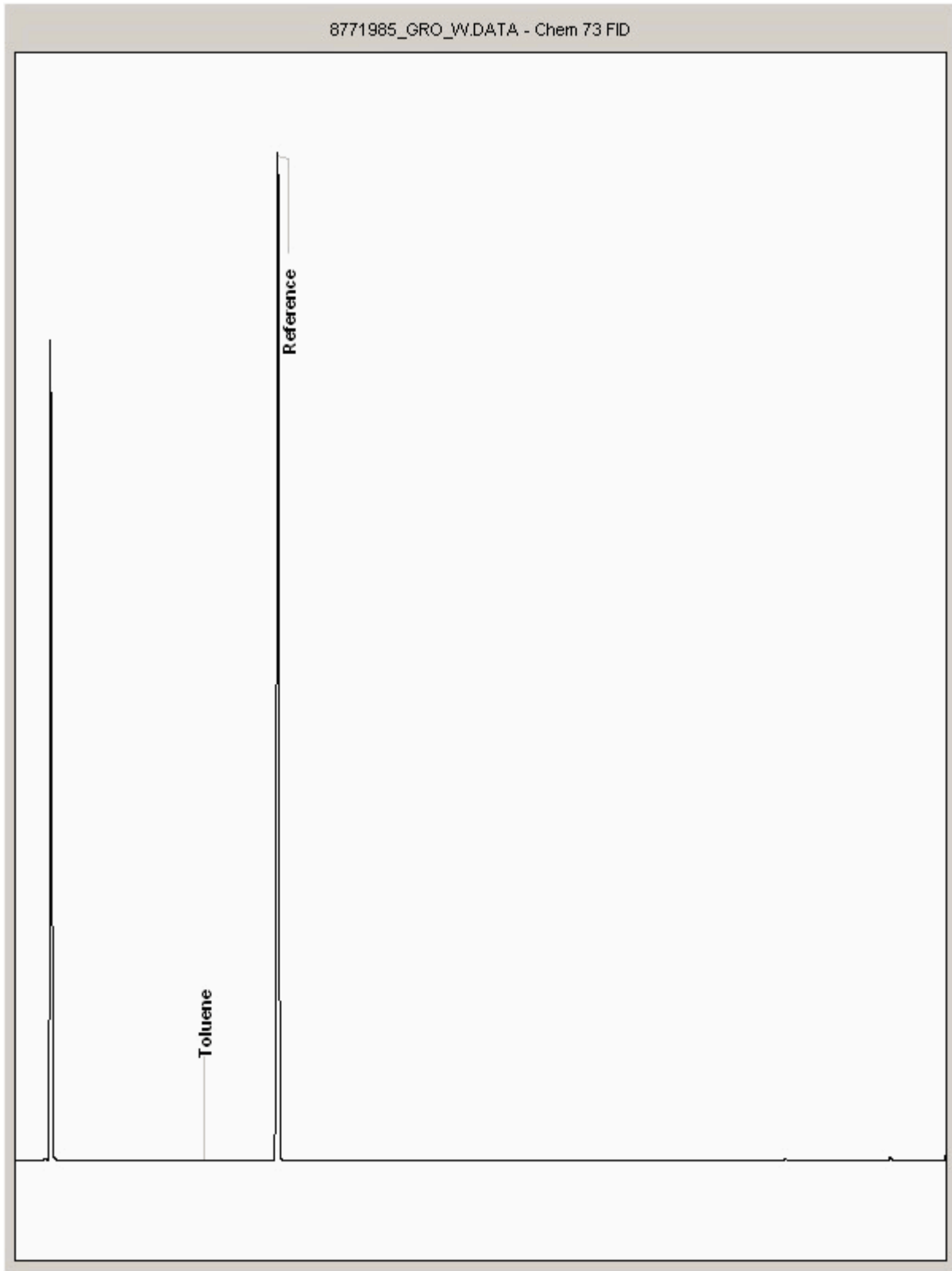
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8771985
Sample ID : CG BH19

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

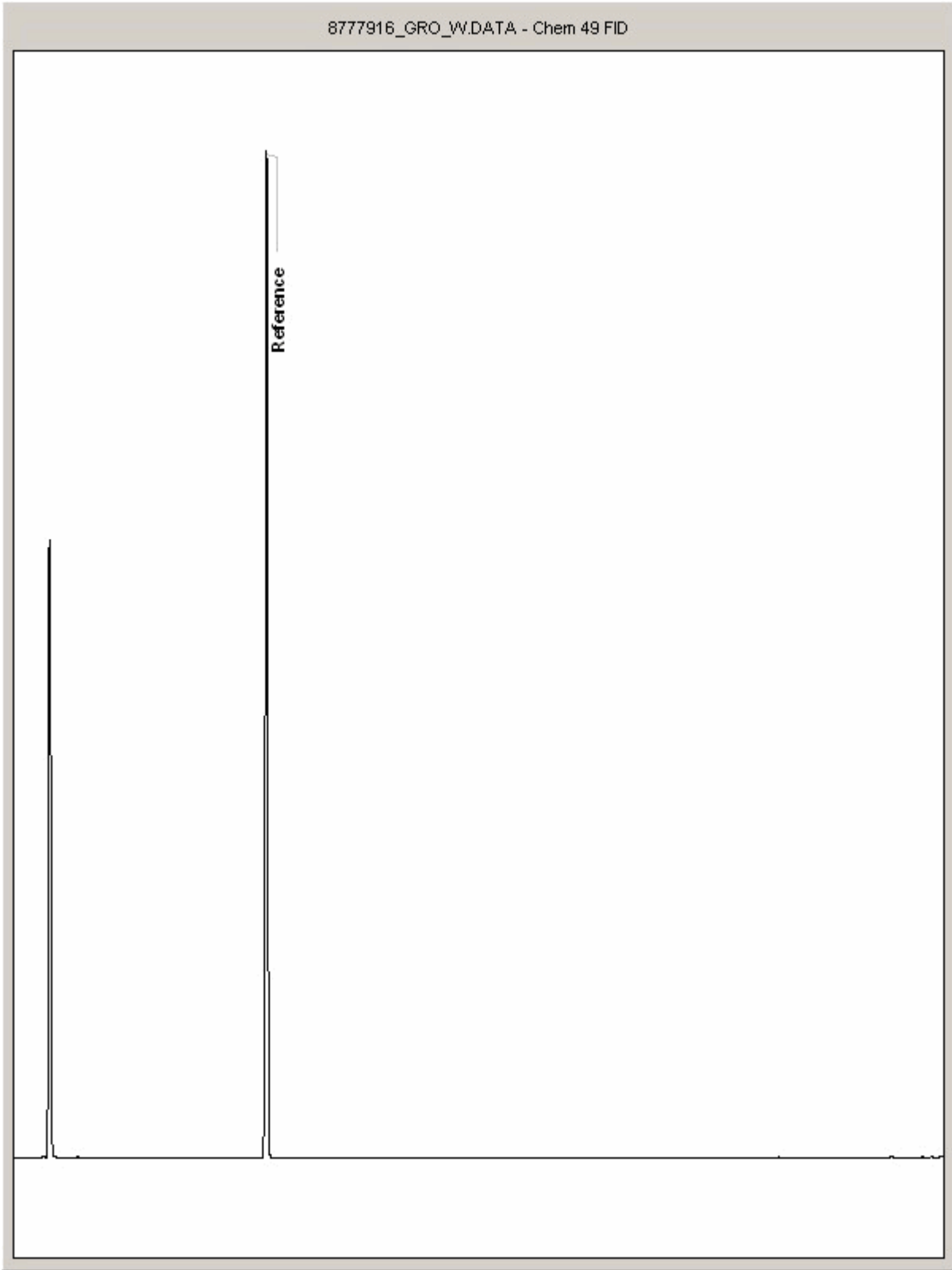
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777916
Sample ID : CG SW03

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

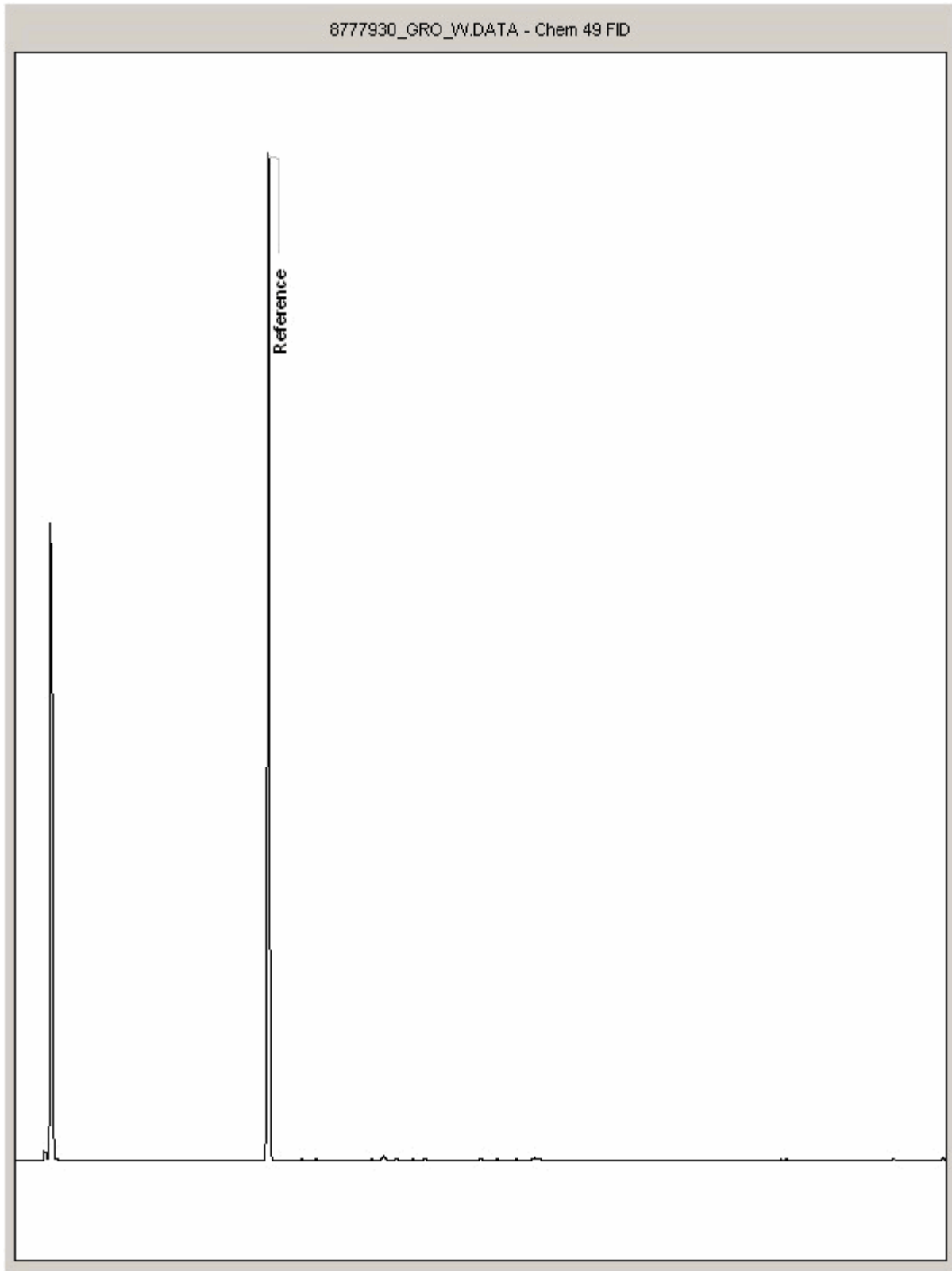
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777930
Sample ID : CG SW01

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

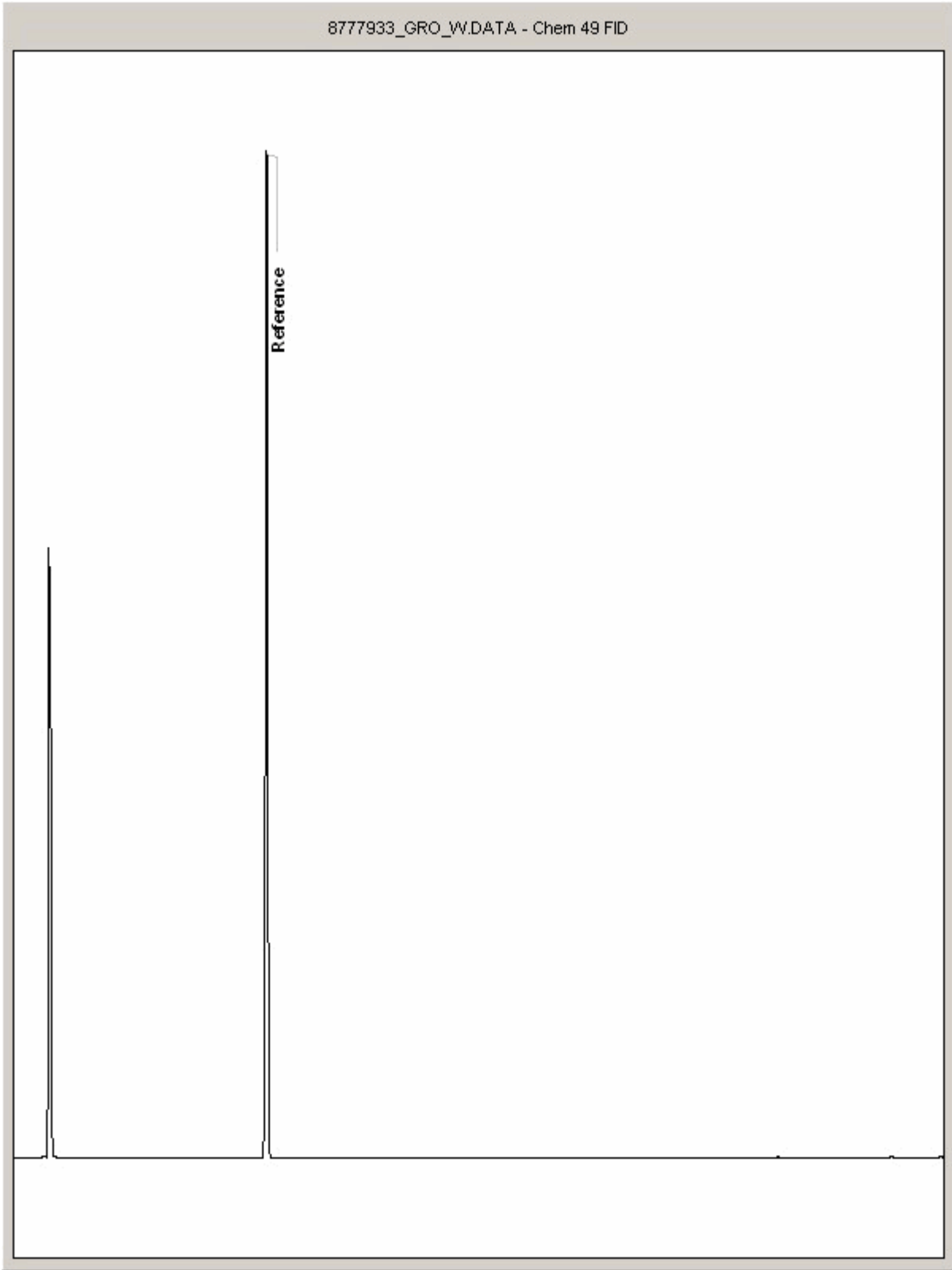
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777933
Sample ID : CG SW02

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

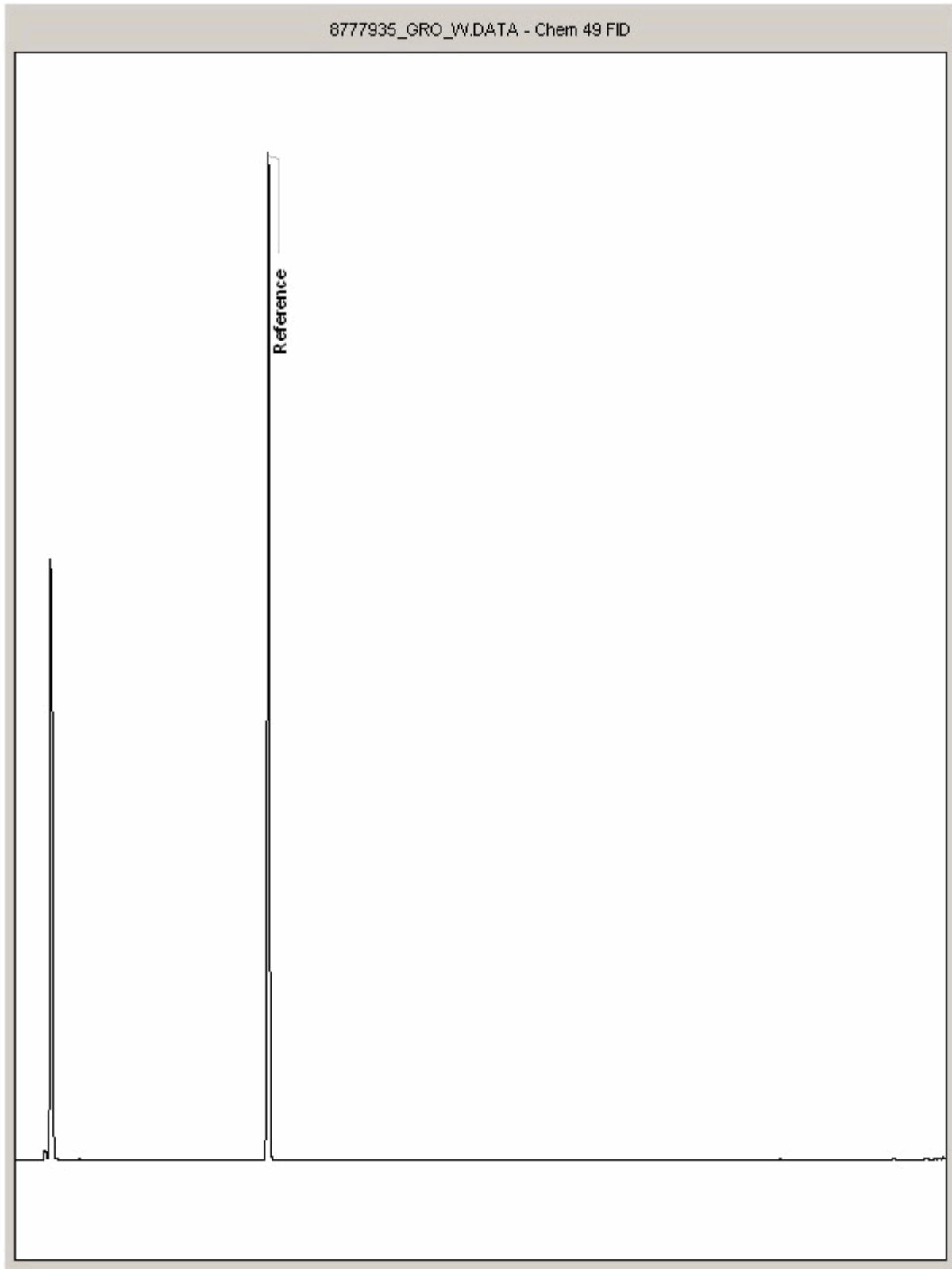
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777935
Sample ID : CG BH21

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

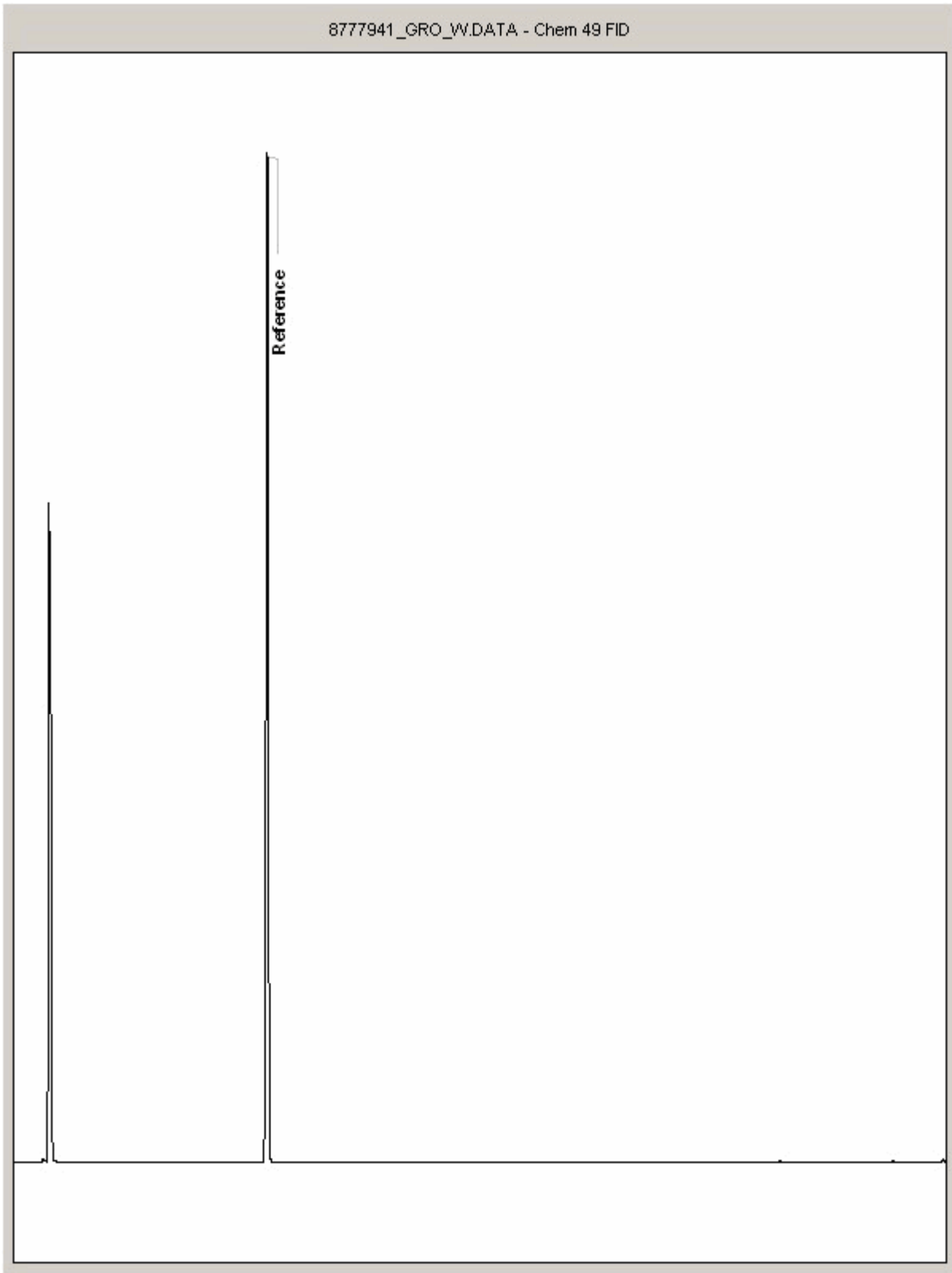
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777941
Sample ID : CG BH03

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

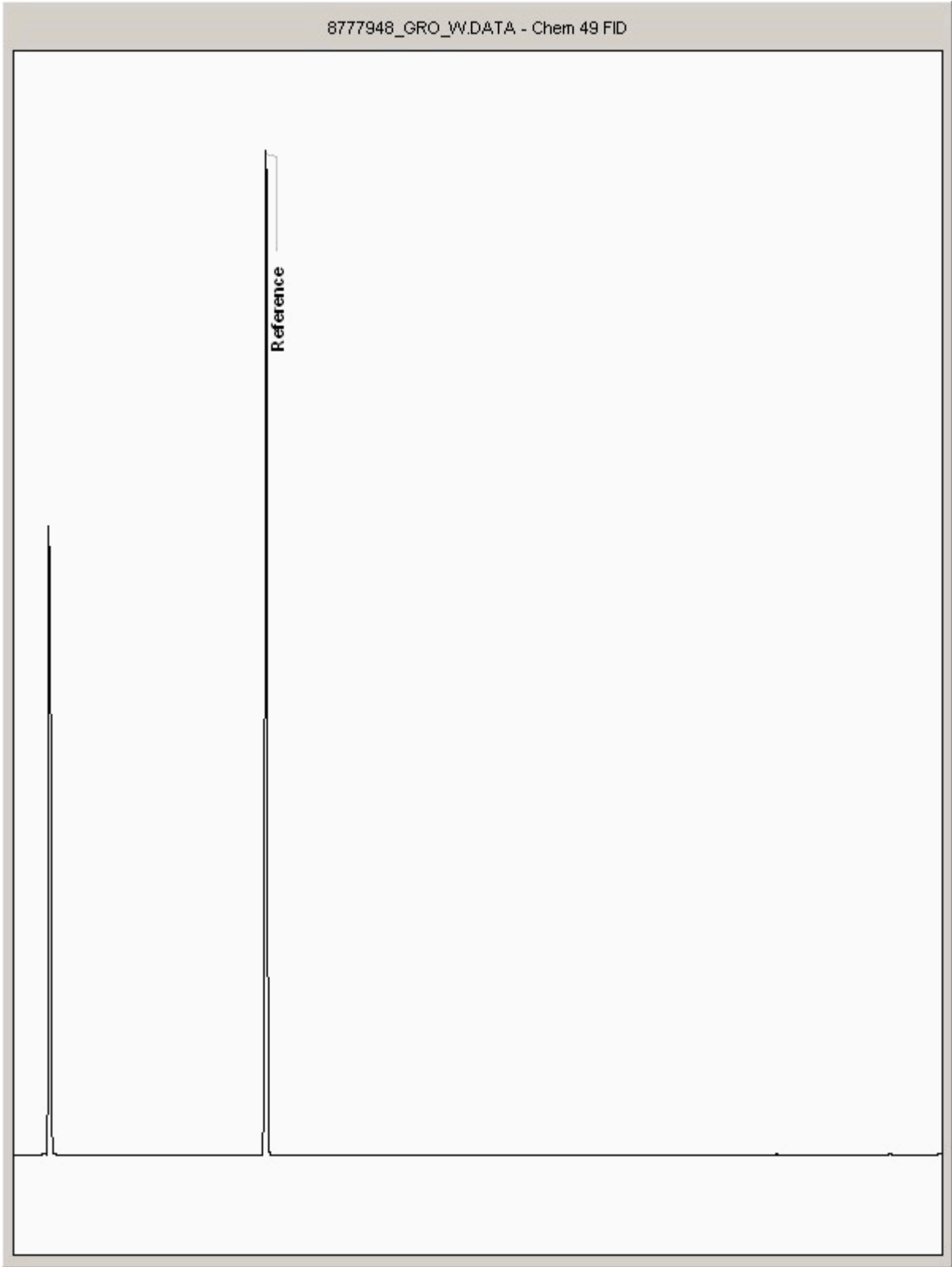
Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 8777948
Sample ID : CG BH20

Depth : 0.00





SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH₄ by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos 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. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. 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.

5. 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.

6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.

7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

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

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.

12. Results relate only to the items tested

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).

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

18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene is only not accredited.

19. 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.

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

21. 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.

22. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

23. 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.

24. 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 C4 -C10 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.

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAMMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAMMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	IATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLS BY GCMS	WET	DOM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANE ACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANE ACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANE ACETONE	END OVER END	GCFID
EPH (MINOL)	D&C	HEXANE ACETONE	END OVER END	GCFID
EPH (CLEANED UP)	D&C	HEXANE ACETONE	END OVER END	GCFID
EPH CWG BY GC	D&C	HEXANE ACETONE	END OVER END	GCFID
PCB TOT / PCB CON	D&C	HEXANE ACETONE	END OVER END	GCMS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANE ACETONE	MICROWAVE TM28.	GCMS
C8-C40 (C6C40) EZ FLASH	WET	HEXANE ACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANE ACETONE	SHAKER	GCEZ
SEM VOLATILE ORGANIC COMPOUNDS	WET	DOM ACETONE	SONICATE	GCMS

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
PCB 70 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREESULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRIAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLS MS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (IR)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GCMS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

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.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials 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.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Coöcidite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

SDG: 140130-67
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
Attention: Declan Fives

Order Number: 9Y0074103100
Report Number: 260264
Superseded Report: 259132

Appendix General

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. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. 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. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. 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.

5. 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.

6. 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. The quantity of asbestos present is not determined unless specifically requested.

7. 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.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

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

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

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

18. 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.

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

20. 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.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. 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.

23. 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.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

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 Alcontrol Laboratories (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 Alcontrol Laboratories (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 Anthrophyllite	-
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.

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.