



Royal Haskoning
Rightwell House
Bretton
Bretton
Peterborough
Cambridgeshire
PE3 8DW

Attention: Declan Fives

CERTIFICATE OF ANALYSIS

Date: 29 July 2014
Customer: H_RHASKON_PTB
Sample Delivery Group (SDG): 140721-1
Your Reference: 9Y0074 103 100
Location: Cole Green
Report No: 278539

We received 9 samples on Saturday July 19, 2014 and 9 of these samples were scheduled for analysis which was completed on Tuesday July 29, 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: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9654274	CG BH 01			17/07/2014
9654276	CG BH 07			17/07/2014
9654267	CG BH 09			15/07/2014
9654268	CG BH 10			15/07/2014
9654269	CG BH 11			15/07/2014
9654271	CG BH 12			17/07/2014
9654272	CG BH 13			17/07/2014
9654273	CG BH 14			17/07/2014
9654275	CG BH 24			17/07/2014

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



CERTIFICATE OF ANALYSIS

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
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Results Legend			Customer Sample R		CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.			17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	15/07/2014	17/07/2014
aq	Aqueous / settled sample.			19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014
diss.filt	Dissolved / filtered sample.			140721-1	140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
tot.unfilt	Total / unfiltered sample.			9654274	9654276	9654267	9654268	9654269	9654271	9654271
*	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								
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	244	#
Arsenic (diss.filt)	<0.12 µg/l	TM152	0.355	<0.12	<0.12	2.18	3.32	<0.12		#
Barium (diss.filt)	<0.03 µg/l	TM152	46.9	113	<0.03	438	289	<0.03		#
Beryllium (diss.filt)	<0.07 µg/l	TM152	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	#
Boron (diss.filt)	<9.4 µg/l	TM152	39.2	51.1	<9.4	964	51.8	<9.4		#
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1	<0.1	<0.1	0.124	0.115	<0.1		#
Chromium (diss.filt)	<0.22 µg/l	TM152	<0.22	0.239	<0.22	<0.22	<0.22	<0.22	<0.22	#
Copper (diss.filt)	<0.85 µg/l	TM152	2.43	3.39	<0.85	6.75	4.13	<0.85		#
Lead (diss.filt)	<0.02 µg/l	TM152	0.053	0.203	<0.02	0.16	0.255	<0.02		#
Nickel (diss.filt)	<0.15 µg/l	TM152	4.51	3.7	<0.15	12.9	22.3	<0.15		#
Selenium (diss.filt)	<0.39 µg/l	TM152	1.73	1.47	<0.39	5.22	6.31	<0.39		#
Vanadium (diss.filt)	<0.24 µg/l	TM152	<0.24	<0.24	<0.24	<0.24	0.451	<0.24		#
Zinc (diss.filt)	<0.41 µg/l	TM152	1.87	1.37	<0.41	3.99	2.86	<0.41		#
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01	<0.01	<0.01	0.0106	<0.01	<0.01		#
PCB congener 28	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 52	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 101	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 118	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 138	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 153	<0.015 µg/l	TM197			<0.015			<0.015		#
PCB congener 180	<0.015 µg/l	TM197			<0.015			<0.015		#
Sum of detected EC7 PCB's	<0.105 µg/l	TM197			<0.105			<0.105		#
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM228			496			1090		#
pH	<1 pH Units	TM256			7.78			7.66		#
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	2 #
Cresols	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	2 #
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008	<0.008	<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	<0.003	<0.003	<0.003	2 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	<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	<0.025	<0.025	<0.025	2

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Client Reference: 9Y0074 103 100

Location: Cole Green
Customer: Royal Haskoning
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Order Number:
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Superseded Report:

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
aq	Aqueous / settled sample.		17/07/2014	17/07/2014	17/07/2014			
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		19/07/2014	19/07/2014	19/07/2014			
*	Subcontracted test.		140721-1	140721-1	140721-1			
**	% 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		9654272	9654273	9654275			
(F)	Trigger breach confirmed							
1-58*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Ammoniacal Nitrogen as NH3	<0.2 mg/l	TM099	78.6	21.8	0.332	#	#	#
Arsenic (diss.filt)	<0.12 µg/l	TM152	5.03	5.34	0.692	#	#	#
Barium (diss.filt)	<0.03 µg/l	TM152	244	143	91.8	#	#	#
Beryllium (diss.filt)	<0.07 µg/l	TM152	<0.07	<0.07	<0.07	#	#	#
Boron (diss.filt)	<9.4 µg/l	TM152	1840	1640	257	#	#	#
Cadmium (diss.filt)	<0.1 µg/l	TM152	0.161	0.49	<0.1	#	#	#
Chromium (diss.filt)	<0.22 µg/l	TM152	<0.22	<0.22	<0.22	#	#	#
Copper (diss.filt)	<0.85 µg/l	TM152	13.1	9.52	1.64	#	#	#
Lead (diss.filt)	<0.02 µg/l	TM152	0.069	0.315	0.071	#	#	#
Nickel (diss.filt)	<0.15 µg/l	TM152	65.2	58.4	6.14	#	#	#
Selenium (diss.filt)	<0.39 µg/l	TM152	7.03	12.5	2.44	#	#	#
Vanadium (diss.filt)	<0.24 µg/l	TM152	<0.24	<0.24	<0.24	#	#	#
Zinc (diss.filt)	<0.41 µg/l	TM152	10.1	12.6	1.1	#	#	#
Mercury (diss.filt)	<0.01 µg/l	TM183	0.0111	0.0116	<0.01	#	#	#
PCB congener 28	<0.015 µg/l	TM197			<0.015			
PCB congener 52	<0.015 µg/l	TM197			<0.015			
PCB congener 101	<0.015 µg/l	TM197			<0.015			
PCB congener 118	<0.015 µg/l	TM197			<0.015			
PCB congener 138	<0.015 µg/l	TM197			<0.015			
PCB congener 153	<0.015 µg/l	TM197			<0.015			
PCB congener 180	<0.015 µg/l	TM197			<0.015			
Sum of detected EC7 PCB's	<0.105 µg/l	TM197			<0.105			
Hardness, Total as CaCO3 unfiltered	<0.35 mg/l	TM228			1010			
pH	<1 pH Units	TM256			7.15		#	
Phenol	<0.002 mg/l	TM259	<0.002	<0.002	<0.002	2 #	2 #	2 #
Cresols	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	2 #	2 #	2 #
Xylenols	<0.008 mg/l	TM259	<0.008	<0.008	<0.008	2 #	2 #	2 #
2,3,5-Trimethylphenol	<0.003 mg/l	TM259	<0.003	<0.003	<0.003	2 #	2 #	2 #
2-Isopropylphenol	<0.006 mg/l	TM259	<0.006	<0.006	<0.006	2 #	2 #	2 #
Phenols, Total Detected 5 speciated	<0.025 mg/l	TM259	<0.025	<0.025	<0.025	2	2	2



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SDG: 140721-1
 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 278539
 Superseded Report:

OC, OP Pesticides and Triazine Herb

Results Legend		Customer Sample R	CG BH 09	CG BH 12	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.							
aq	Aqueous / settled sample.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
diss.filt	Dissolved / filtered sample.		15/07/2014	17/07/2014	17/07/2014			
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		19/07/2014	19/07/2014	19/07/2014			
(F)	Trigger breach confirmed		140721-1	140721-1	140721-1			
1-5&*\$@	Sample deviation (see appendix)		9654267	9654271	9654275			
Component	LOD/Units		Method					
Dichlorvos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Mevinphos	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
alpha-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Diazinon	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
gamma-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Heptachlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Aldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
beta-Hexachlorocyclohexane (HCH / Lindane)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Methyl parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Malathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Fenitrothion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Heptachlor epoxide	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Parathion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
o,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Endosulphan I	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
p,p-DDE	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Dieldrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
o,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Endrin	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
o,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
p,p-TDE (DDD)	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Ethion	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Endosulphan II	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
p,p-DDT	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
o,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
p,p-Methoxychlor	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Endosulphan sulphate	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			
Azinphos-methyl	<0.01 µg/l	TM231	<0.01	<0.01	<0.01			



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PAH Spec MS - Aqueous (W)

Results Legend			Customer Sample R	CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	
M	mCERTS accredited.			17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	15/07/2014	17/07/2014
aq	Aqueous / settled sample.			19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014
diss.filt	Dissolved / filtered sample.			140721-1	140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
tot.unfilt	Total / unfiltered sample.			9654274	9654276	9654267	9654268	9654269	9654271	9654271
*	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								
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Acenaphthene (aq)	<0.015 µg/l	TM178	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.101	
Acenaphthylene (aq)	<0.011 µg/l	TM178	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	
Fluoranthene (aq)	<0.017 µg/l	TM178	<0.017	0.0367	<0.017	<0.017	<0.017	<0.017	<0.017	
Anthracene (aq)	<0.015 µg/l	TM178	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Phenanthrene (aq)	<0.022 µg/l	TM178	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	
Fluorene (aq)	<0.014 µg/l	TM178	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.154	
Chrysene (aq)	<0.013 µg/l	TM178	<0.013	0.0217	<0.013	<0.013	<0.013	<0.013	<0.013	
Pyrene (aq)	<0.015 µg/l	TM178	0.0165	0.0433	0.0239	<0.015	<0.015	<0.015	<0.015	
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	<0.017	0.0187	<0.017	<0.017	<0.017	<0.017	<0.017	
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	<0.023	0.045	<0.023	<0.023	<0.023	<0.023	<0.023	
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	<0.009	0.0249	<0.009	<0.009	<0.009	<0.009	<0.009	
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	<0.016	0.0235	<0.016	<0.016	<0.016	<0.016	<0.016	
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	<0.014	0.017	<0.014	<0.014	<0.014	<0.014	<0.014	
PAH, Total Detected USEPA 16 (aq)	<0.344 µg/l	TM178	<0.344	<0.344	<0.344	<0.344	<0.344	<0.344	<0.344	



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PAH Spec MS - Aqueous (W)

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
aq	Aqueous / settled sample.		17/07/2014	17/07/2014	17/07/2014			
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		19/07/2014	19/07/2014	19/07/2014			
*	Subcontracted test.		140721-1	140721-1	140721-1			
**	% 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		9654272	9654273	9654275			
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Naphthalene (aq)	<0.1 µg/l	TM178	<0.1 #	<0.1 #	<0.1 #			
Acenaphthene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #			
Acenaphthylene (aq)	<0.011 µg/l	TM178	<0.011 #	<0.011 #	<0.011 #			
Fluoranthene (aq)	<0.017 µg/l	TM178	0.0384 #	<0.017 #	<0.017 #			
Anthracene (aq)	<0.015 µg/l	TM178	<0.015 #	<0.015 #	<0.015 #			
Phenanthrene (aq)	<0.022 µg/l	TM178	0.0295 #	<0.022 #	<0.022 #			
Fluorene (aq)	<0.014 µg/l	TM178	<0.014 #	<0.014 #	<0.014 #			
Chrysene (aq)	<0.013 µg/l	TM178	<0.013 #	<0.013 #	<0.013 #			
Pyrene (aq)	<0.015 µg/l	TM178	0.0737 #	<0.015 #	<0.015 #			
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178	0.0223 #	<0.017 #	<0.017 #			
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178	0.038 #	<0.023 #	<0.023 #			
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178	<0.027 #	<0.027 #	<0.027 #			
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178	0.0219 #	<0.009 #	<0.009 #			
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178	<0.016 #	<0.016 #	<0.016 #			
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178	0.0235 #	<0.016 #	<0.016 #			
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178	0.0158 #	<0.014 #	<0.014 #			
PAH, Total Detected USEPA 16 (aq)	<0.344 µg/l	TM178	<0.344 #	<0.344 #	<0.344 #			



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 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

Location: Cole Green
 Customer: Royal Haskoning
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Order Number:
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 Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R		CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12
#	ISO17025 accredited.		Depth (m)	Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.				17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	15/07/2014
aq	Aqueous / settled sample.		Date Sampled	Date Sampled	Date Received	Date Received	Date Received	Date Received	Date Received	Date Received
diss.filt	Dissolved / filtered sample.		Sampled Time	Sampled Time	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref
tot.unfilt	Total / unfiltered sample.		Date Received	Date Received	140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
*	Subcontracted test.		Lab Sample No.(s)	Lab Sample No.(s)	9654274	9654276	9654267	9654268	9654269	9654271
**	% 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		AGS Reference	AGS Reference						
(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	#
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	#
Carbazole (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	#



CERTIFICATE OF ANALYSIS

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 17/07/2014 19/07/2014 140721-1 9654272	Water(GW/SW) 17/07/2014 19/07/2014 140721-1 9654273	Water(GW/SW) 17/07/2014 19/07/2014 140721-1 9654275			
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
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 #			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Chlorophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
2-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
3-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Chloroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Methylphenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Nitroaniline (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
4-Nitrophenol (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
Azobenzene (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2 #	<2 #	<2 #			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
Carbazole (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
Dibenzofuran (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<1 #	<1 #	<1 #			



SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

TPH CWG (W)

Results Legend			Customer Sample R		CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12	
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.			17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	15/07/2014	17/07/2014
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			19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014
(F)	Trigger breach confirmed			140721-1	140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
1-5&*\$@	Sample deviation (see appendix)			9654274	9654276	9654267	9654268	9654269	9654271	9654271
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM245	92	84	84	82	94	93		
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	<50	<50	<50	<50	
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	<3	
Benzene	<7 µg/l	TM245	<7	<7	<7	<7	<7	<7	<7	
Toluene	<4 µg/l	TM245	<4	<4	<4	<4	<4	<4	<4	
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	<5	<5	<5	<5	
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	<8	<8	<8	<8	
o-Xylene	<3 µg/l	TM245	<3	<3	<3	<3	<3	<3	<3	
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11	<11	<11	<11	<11	
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28	<28	<28	<28	<28	
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	<10	
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	15	<10	<10	<10	<10	<10	
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	49	<10	11	<10	<10	<10	
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	64	<10	11	<10	<10	<10	
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10	<10	
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	23	<10	<10	<10	<10	
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	23	<10	<10	<10	<10	
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	64	23	11	<10	<10	19	



SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
aq	Aqueous / settled sample.		17/07/2014	17/07/2014	17/07/2014			
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		19/07/2014	19/07/2014	19/07/2014			
*	Subcontracted test.		140721-1	140721-1	140721-1			
**	% 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		9654272	9654273	9654275			
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
GRO Surrogate % recovery**	%	TM245	91	87	77			
GRO >C5-C12	<50 µg/l	TM245	<50	<50	<50	#	#	#
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3	#	#	#
Benzene	<7 µg/l	TM245	<7	<7	<7	#	#	#
Toluene	<4 µg/l	TM245	<4	<4	<4	#	#	#
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5	#	#	#
m,p-Xylene	<8 µg/l	TM245	<8	<8	<8	#	#	#
o-Xylene	<3 µg/l	TM245	<3	<3	<3	#	#	#
Sum of detected Xylenes	<11 µg/l	TM245	<11	<11	<11			
Sum of detected BTEX	<28 µg/l	TM245	<28	<28	<28			
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10			
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10			
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10			
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10			
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10			
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	11	<10			
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10			
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	11	<10			
Aromatics >EC5-EC7	<10 µg/l	TM245	<10	<10	<10			
Aromatics >EC7-EC8	<10 µg/l	TM245	<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10			
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10			
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10			
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10			
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10			
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10			
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	11	<10			



CERTIFICATE OF ANALYSIS

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R		CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.			17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	15/07/2014	17/07/2014
aq	Aqueous / settled sample.			19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014
diss.filt	Dissolved / filtered sample.			140721-1	140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
tot.unfilt	Total / unfiltered sample.			9654274	9654276	9654267	9654268	9654269	9654271	9654271
*	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								
Dibromofluoromethane**	%	TM208	107	106	107	106	106	106	111	
Toluene-d8**	%	TM208	100	99.8	99.3	100	100	100	100	
4-Bromofluorobenzene**	%	TM208	103	102	99.3	102	102	102	102	
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Chloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	<3	<3	<3	<3	
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Chloroform	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Benzene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
Toluene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	<1	<1	<1	<1	



SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.		17/07/2014	17/07/2014	15/07/2014	15/07/2014	15/07/2014	17/07/2014
aq	Aqueous / settled sample.		19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014	19/07/2014
diss.filt	Dissolved / filtered sample.		140721-1	140721-1	140721-1	140721-1	140721-1	140721-1
tot.unfilt	Total / unfiltered sample.		9654274	9654276	9654267	9654268	9654269	9654271
*	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&#pound;	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: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

VOC MS (W)

Table with columns for Component, LOD/Units, Method, and sample locations (CG BH 01 to 12). Rows include 1,2,3-Trichlorobenzene, 1,3,5-Trichlorobenzene, VOC TIC, and Sum of detected Xylenes.



SDG: 140721-1
 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 278539
 Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
aq	Aqueous / settled sample.		17/07/2014	17/07/2014	17/07/2014			
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		19/07/2014	19/07/2014	19/07/2014			
*	Subcontracted test.		140721-1	140721-1	140721-1			
**	% 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		9654272	9654273	9654275			
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
Dibromofluoromethane**	%	TM208	111	106	105			
Toluene-d8**	%	TM208	100	98.8	100			
4-Bromofluorobenzene**	%	TM208	100	98.8	103			
Dichlorodifluoromethane	<1 µg/l	TM208	<1	<1	<1			
Chloromethane	<1 µg/l	TM208	<1	<1	<1			
Vinyl chloride	<1 µg/l	TM208	<1	<1	<1	#	#	#
Bromomethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
Chloroethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
Trichlorofluoromethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,1-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	#	#	#
Carbon disulphide	<1 µg/l	TM208	<1	<1	<1	#	#	#
Dichloromethane	<3 µg/l	TM208	<3	<3	<3	#	#	#
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1	<1	<1	#	#	#
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,1-Dichloroethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1	<1	<1	#	#	#
2,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1			
Bromochloromethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
Chloroform	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,1,1-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,1-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	#	#	#
Carbontetrachloride	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,2-Dichloroethane	<1 µg/l	TM208	<1	<1	<1			
Benzene	<1 µg/l	TM208	<1	<1	<1	#	#	#
Trichloroethene	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,2-Dichloropropane	<1 µg/l	TM208	<1	<1	<1	#	#	#
Dibromomethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
Bromodichloromethane	<1 µg/l	TM208	<1	<1	<1	#	#	#
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	#	#	#
Toluene	<1 µg/l	TM208	<1	<1	<1	#	#	#
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1	<1	<1	#	#	#
1,1,2-Trichloroethane	<1 µg/l	TM208	<1	<1	<1	#	#	#



CERTIFICATE OF ANALYSIS

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	CG BH 13	CG BH 14	CG BH 24		
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)		
M	mCERTS accredited.		17/07/2014	17/07/2014	17/07/2014		
aq	Aqueous / settled sample.		19/07/2014	19/07/2014	19/07/2014		
diss.filt	Dissolved / filtered sample.		140721-1	140721-1	140721-1		
tot.unfilt	Total / unfiltered sample.		9654272	9654273	9654275		
*	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 #		
Tetrachloroethene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Dibromochloromethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dibromoethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Chlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Ethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
m,p-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
o-Xylene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Styrene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Bromoform	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Isopropylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Bromobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Propylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
2-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
4-Chlorotoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
tert-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
sec-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
n-Butylbenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1 #	<1 #	<1 #		
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Hexachlorobutadiene	<1 µg/l	TM208	<1 #	<1 #	<1 #		
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #	<1 #	<1 #		
Naphthalene	<1 µg/l	TM208	<1 #	<1 #	<1 #		



SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

VOC MS (W)

Table with columns: Results Legend, Customer Sample R, CG BH 13, CG BH 14, CG BH 24, Component, LOD/Units, Method. Rows include 1,2,3-Trichlorobenzene, 1,3,5-Trichlorobenzene, VOC TIC, and Sum of detected Xylenes.



CERTIFICATE OF ANALYSIS

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

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)		
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: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	9654274	9654276	9654267	9654268	9654269	9654271	9654272	9654273	9654275
	CG BH 01	CG BH 07	CG BH 09	CG BH 10	CG BH 11	CG BH 12	CG BH 13	CG BH 14	CG BH 24
AGS Ref.									
Depth									
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Ammoniacal Nitrogen	24-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014	23-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014
Dissolved Metals by ICP-MS	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
EPH CWG (Aliphatic) Aqueous GC (W)	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014
EPH CWG (Aromatic) Aqueous GC (W)	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014
GRO by GC-FID (W)	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014	26-Jul-2014
Mercury Dissolved	24-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014	23-Jul-2014	24-Jul-2014	24-Jul-2014	24-Jul-2014
Metals by iCap-OES Unfiltered (W)			24-Jul-2014			24-Jul-2014			24-Jul-2014
OC, OP Pesticides and Triazine Herb			29-Jul-2014			29-Jul-2014			29-Jul-2014
PAH Spec MS - Aqueous (W)	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
PCB Congeners - Aqueous (W)			28-Jul-2014			28-Jul-2014			28-Jul-2014
pH Value			23-Jul-2014			23-Jul-2014			23-Jul-2014
Phenols by HPLC (W)	28-Jul-2014	28-Jul-2014	28-Jul-2014	28-Jul-2014	28-Jul-2014	24-Jul-2014	28-Jul-2014	28-Jul-2014	28-Jul-2014
SVOC MS (W) - Aqueous	28-Jul-2014	28-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	25-Jul-2014	28-Jul-2014	28-Jul-2014	28-Jul-2014
TPH CWG (W)	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014	28-Jul-2014	29-Jul-2014	28-Jul-2014
VOC MS (W)	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014	27-Jul-2014



SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

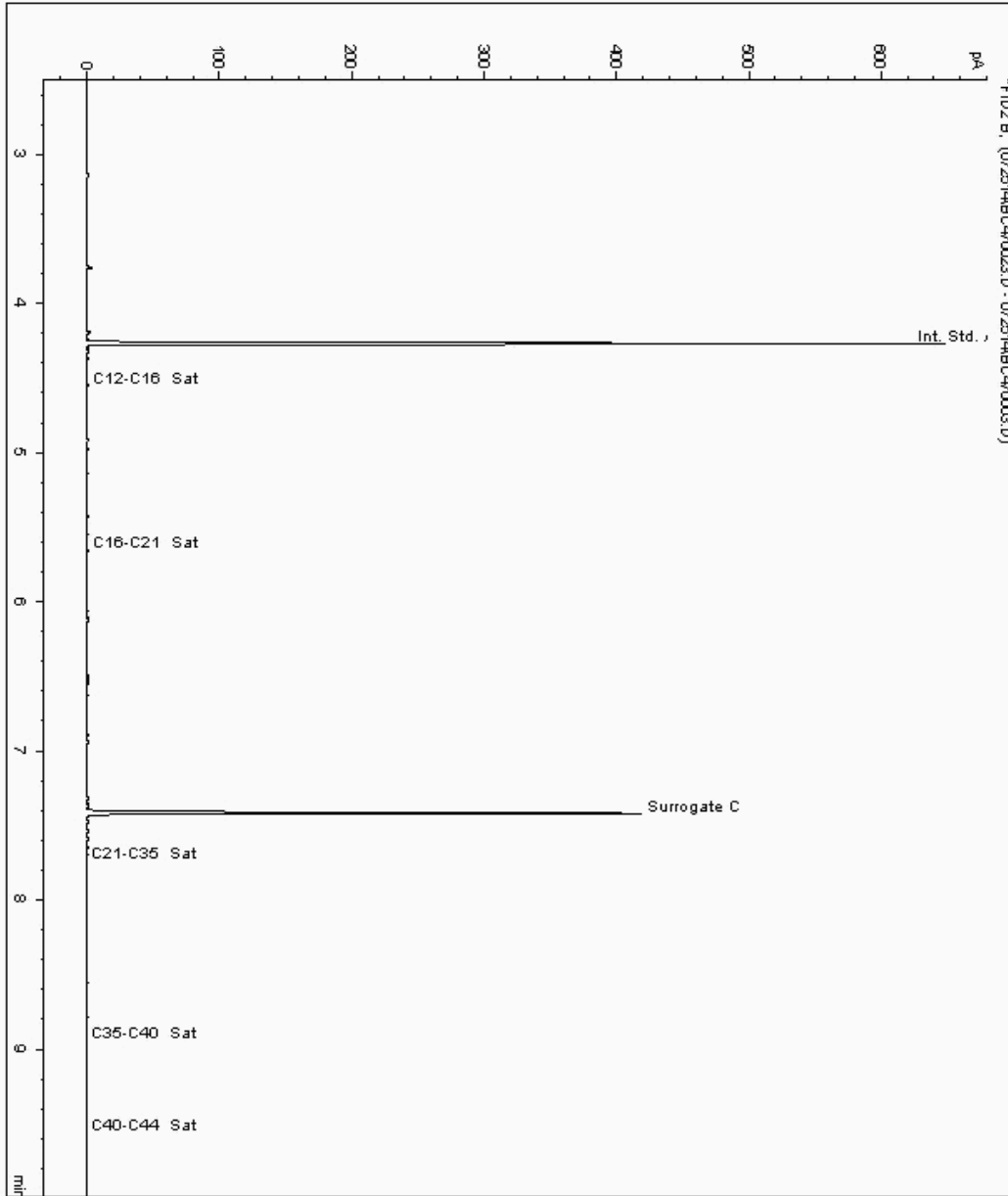
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9664865
Sample ID : CG BH 12

Depth :

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

Sample Identity: 9167561-9664865
Date Acquired : 25/07/14 23:33:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

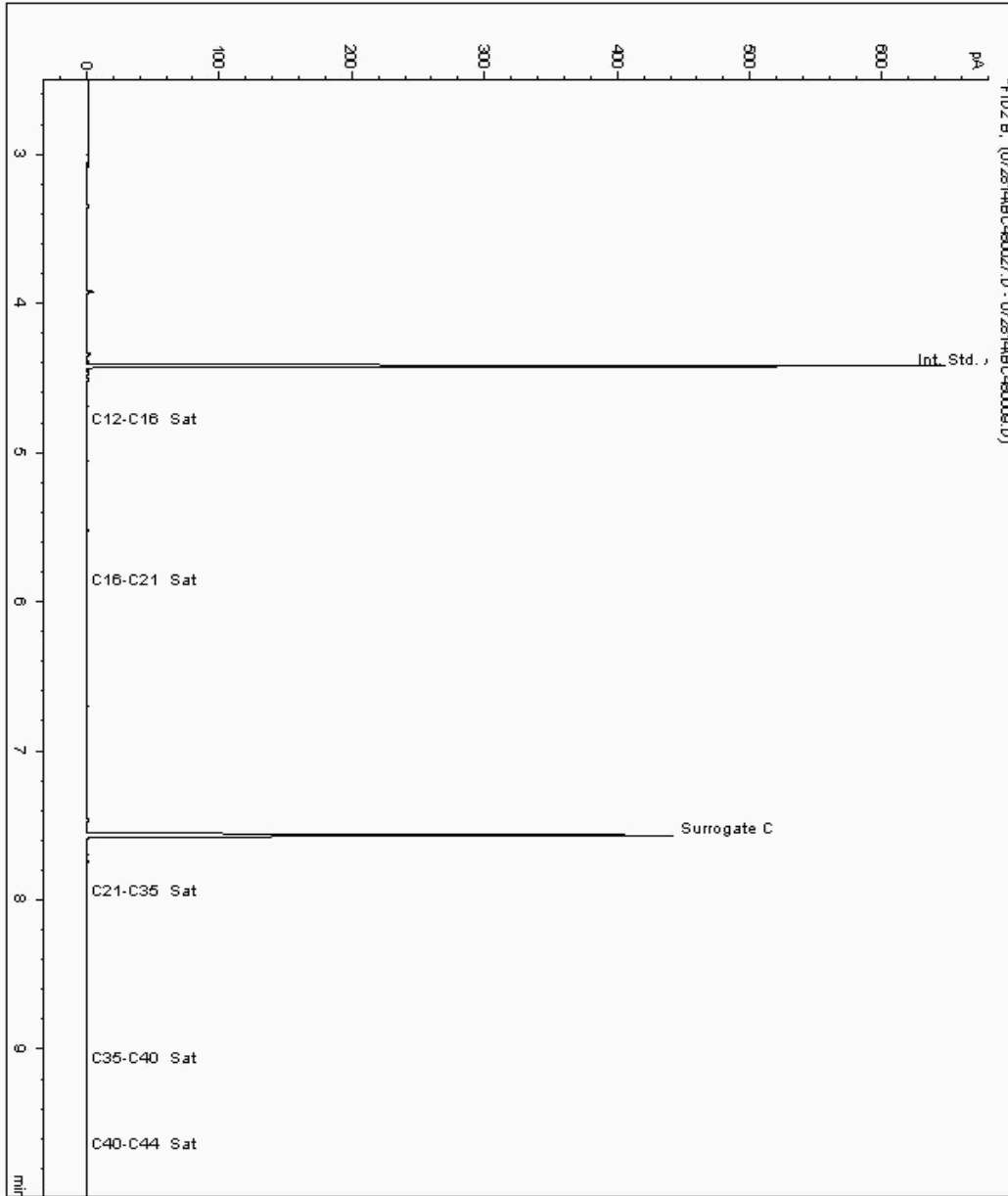
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665120
Sample ID : CG BH 11

Depth :

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

Sample Identity: 9167538-9665120
Date Acquired : 29/07/2014 01:18:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

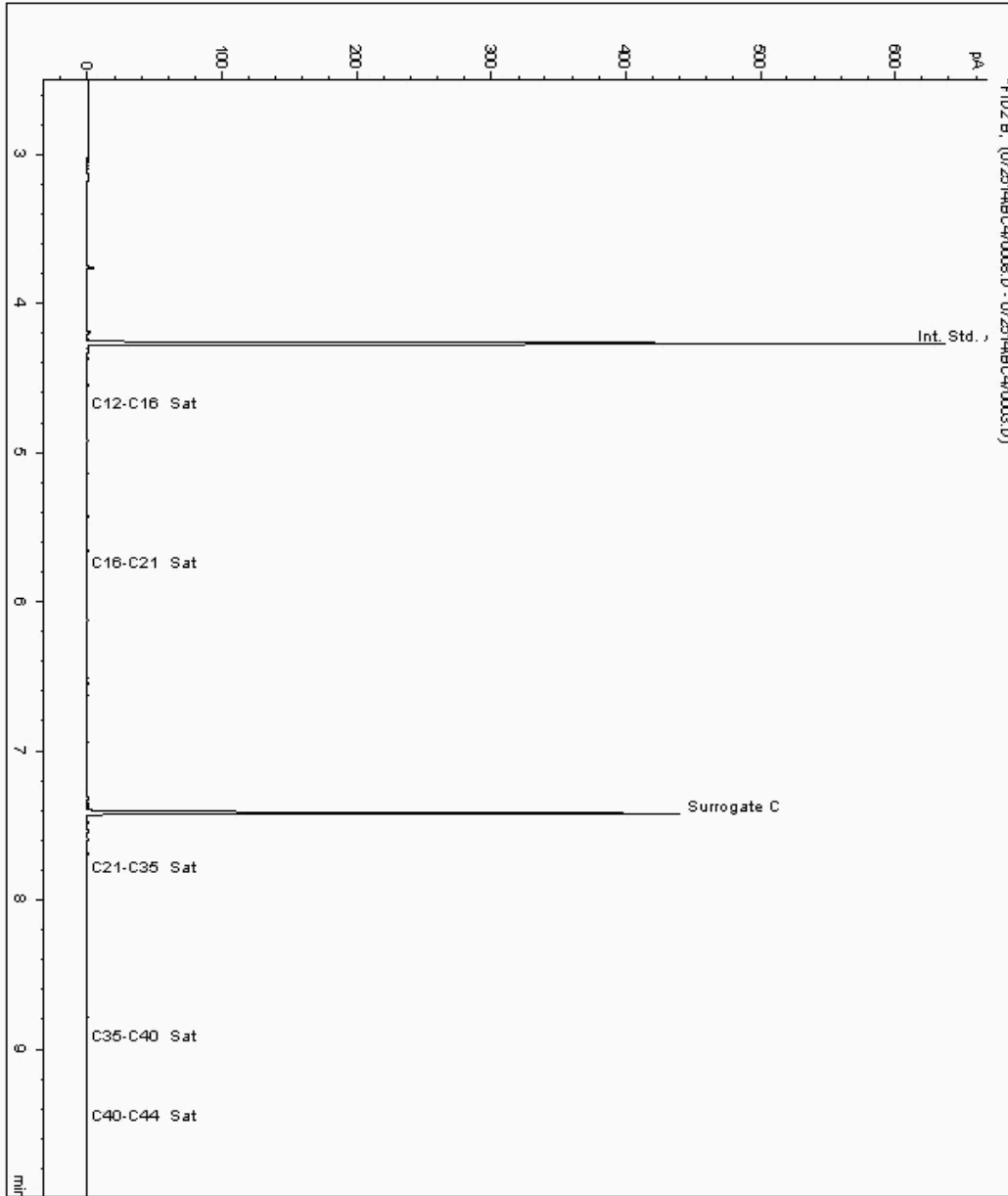
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665133
Sample ID : CG BH 24

Depth :

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

Sample Identity: 9167661-9665133
Date Acquired : 25/07/14 19:29:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

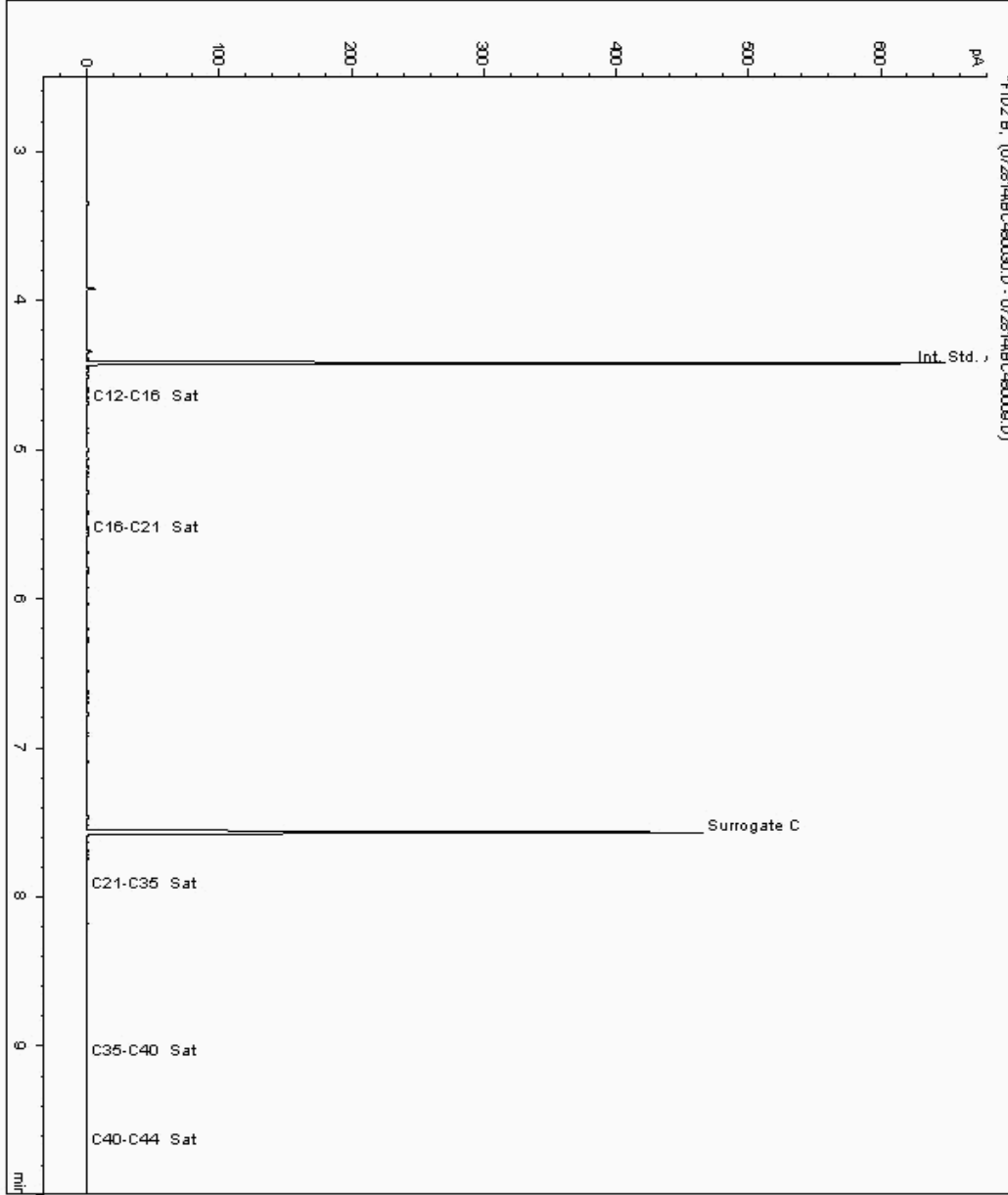
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665159
Sample ID : CG BH 14

Depth :

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

Sample Identity: 9167600-9665159
Date Acquired : 29/07/2014 02:06:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

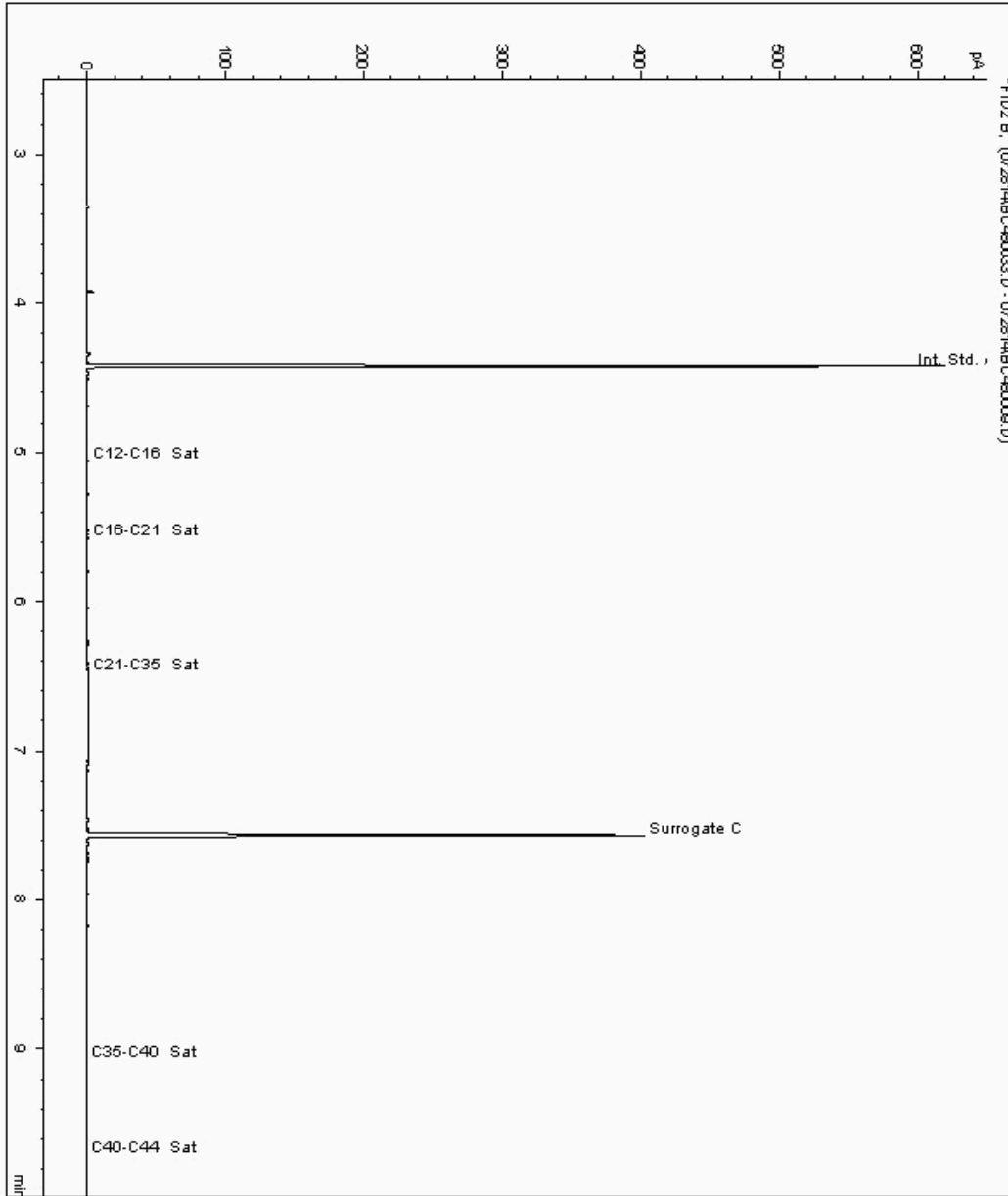
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665180
Sample ID : CG BH 07

Depth :

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

Sample Identity: 9167686-9665180
Date Acquired : 29/07/2014 03:05:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

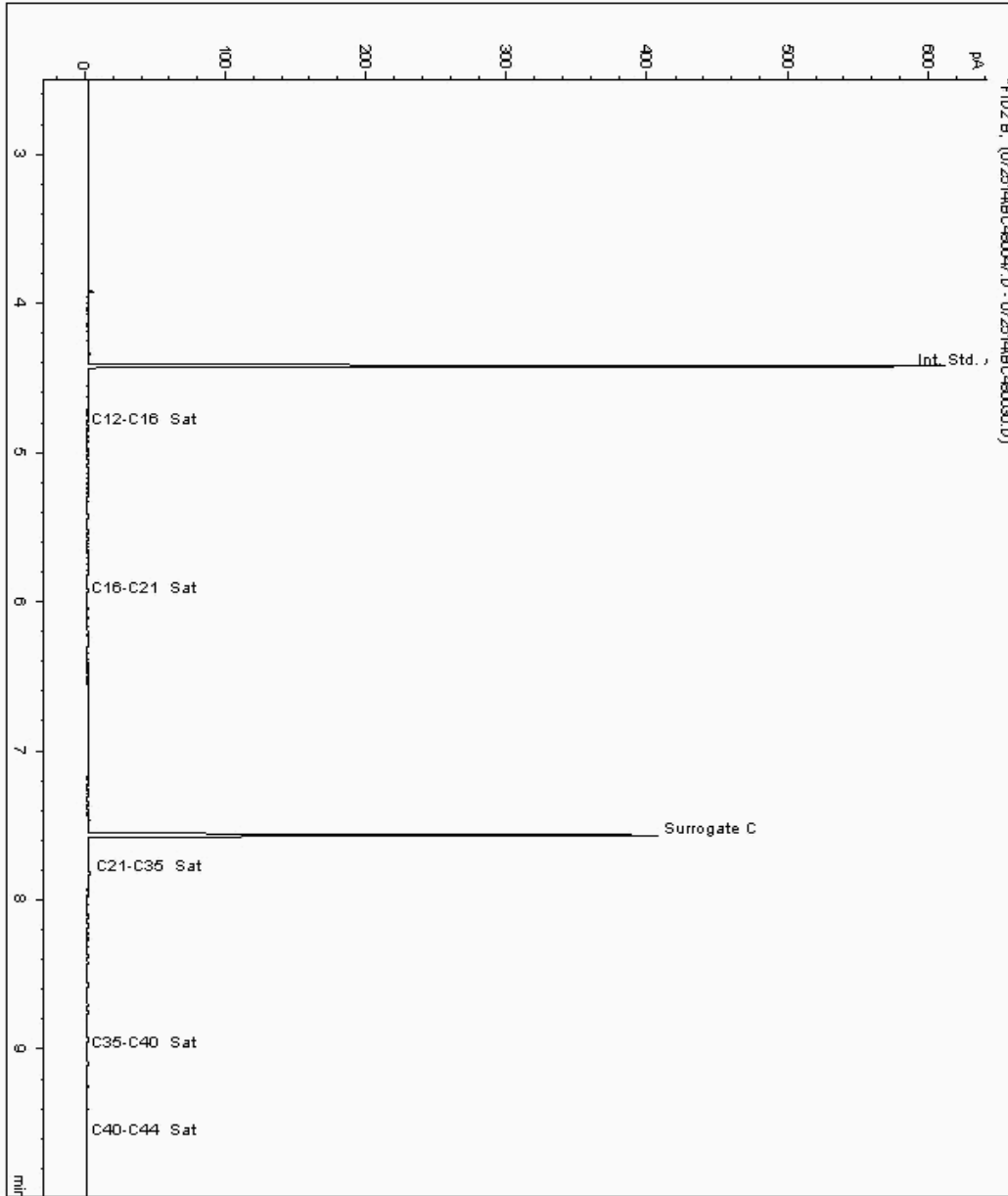
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665190
Sample ID : CG BH 01

Depth :

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

Sample Identity: 9167624-9665190
Date Acquired : 26/07/2014 07:30:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.009





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

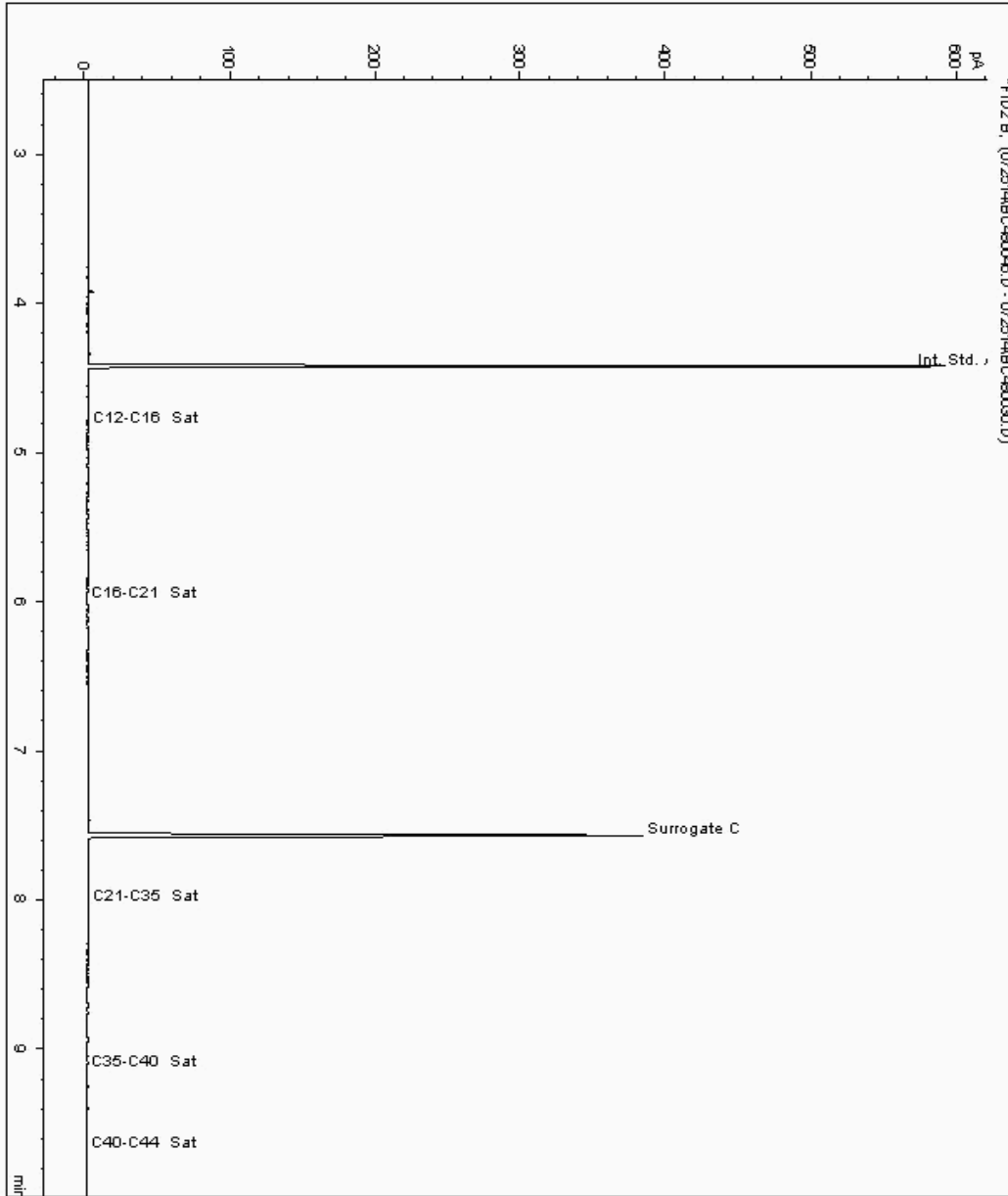
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665835
Sample ID : CG BH 13

Depth :

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

Sample Identity: 9167585-9665835
Date Acquired : 26/07/2014 06:53:34 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.009





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

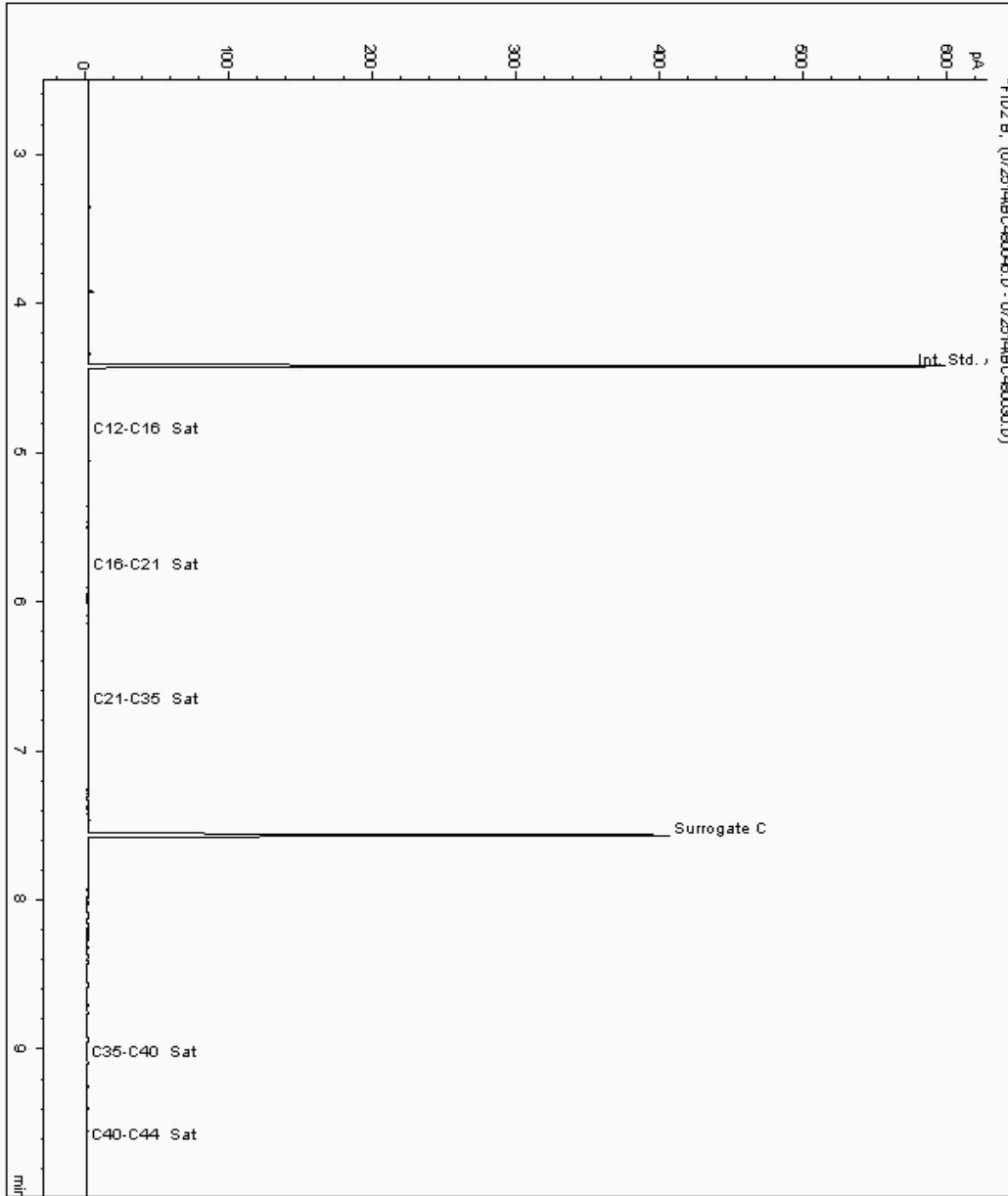
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665849
Sample ID : CG BH 10

Depth :

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

Sample Identity: 9167516-9665849
Date Acquired : 26/07/2014 07:12:22 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

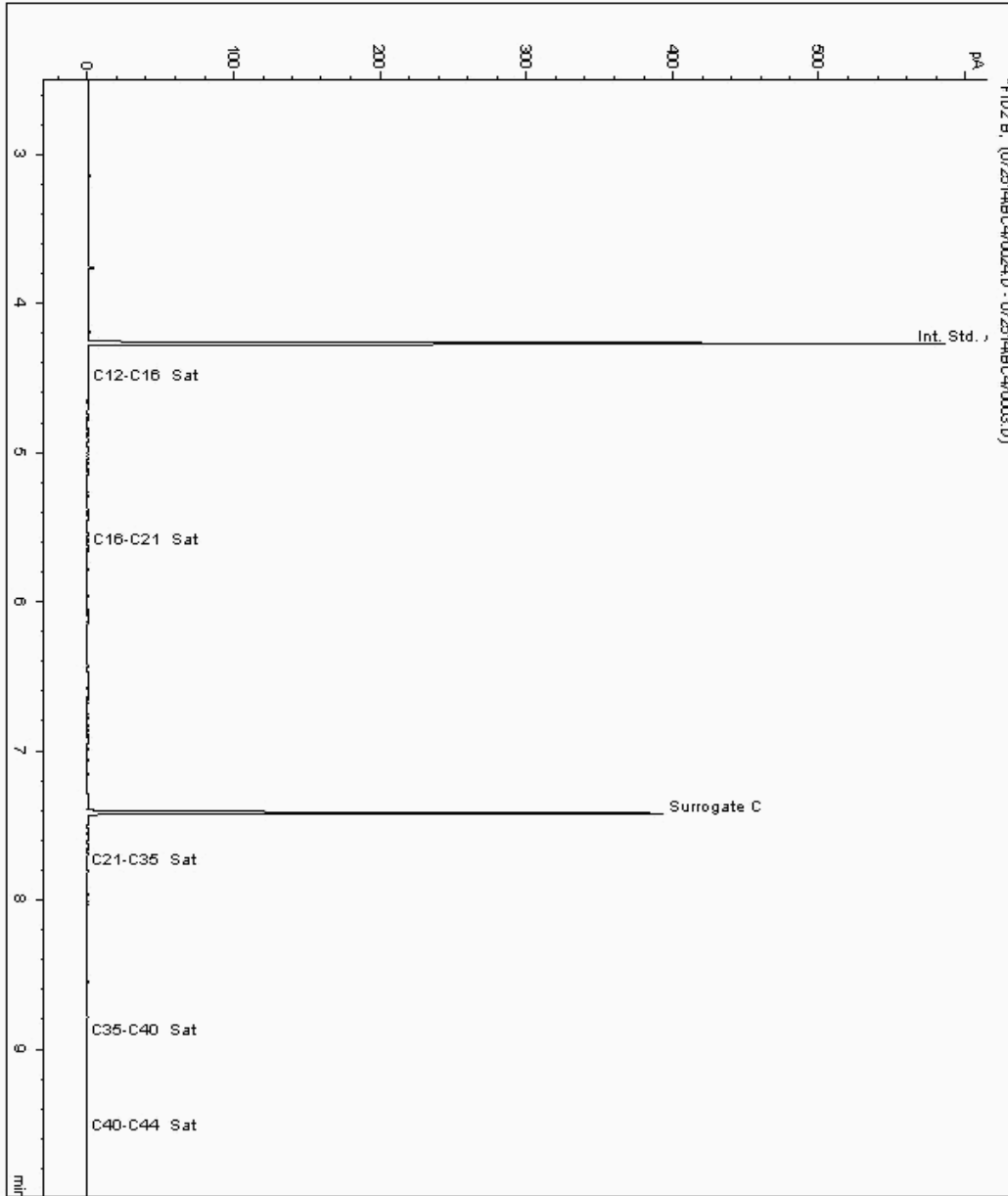
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 9665886
Sample ID : CG BH 09

Depth :

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

Sample Identity: 9167495-9665886
Date Acquired : 25/07/14 23:53:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

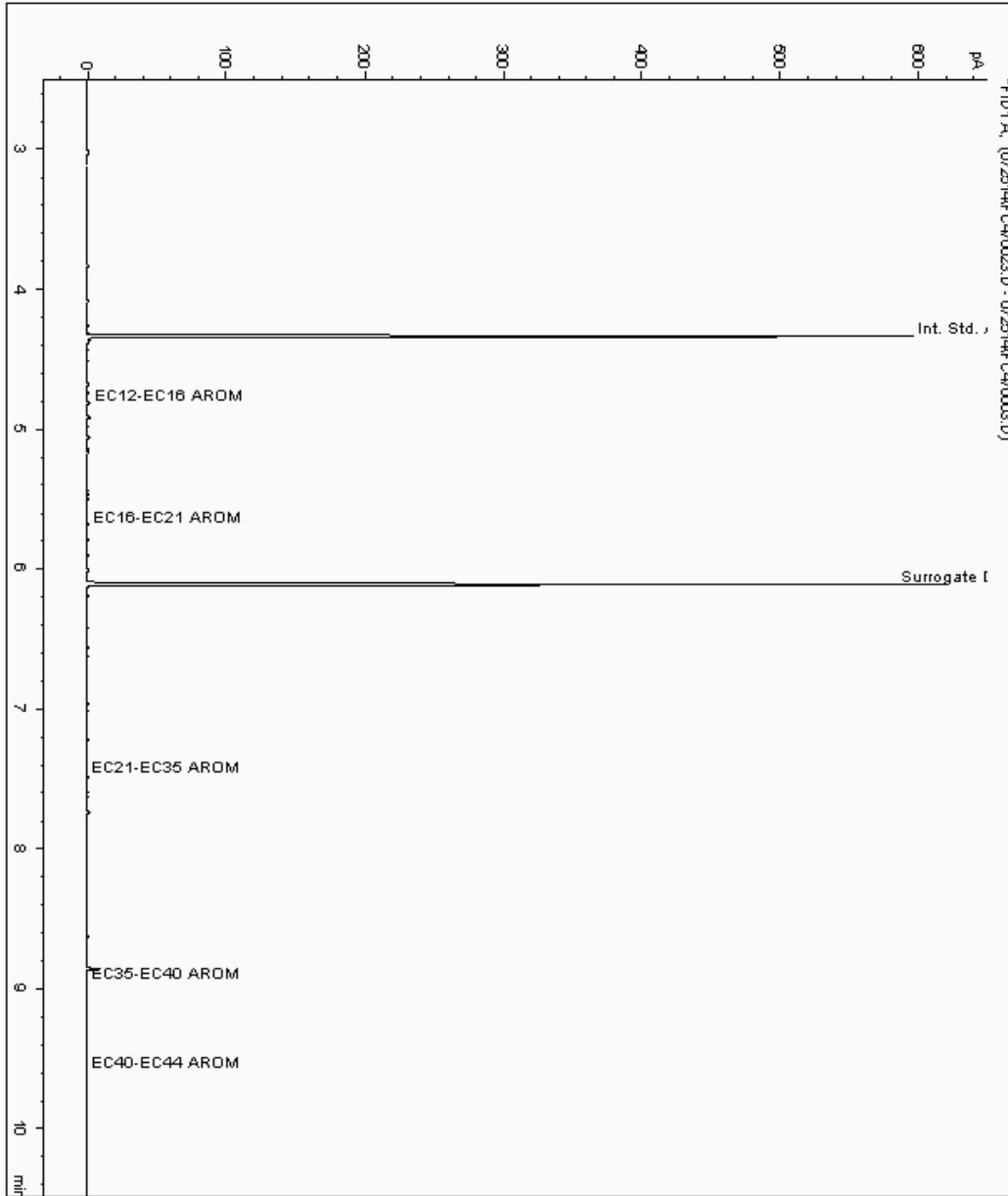
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9664865
Sample ID : CG BH 12

Depth :

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

Sample Identity: 9167562-9664865
Date Acquired : 25/07/14 23:33:58 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

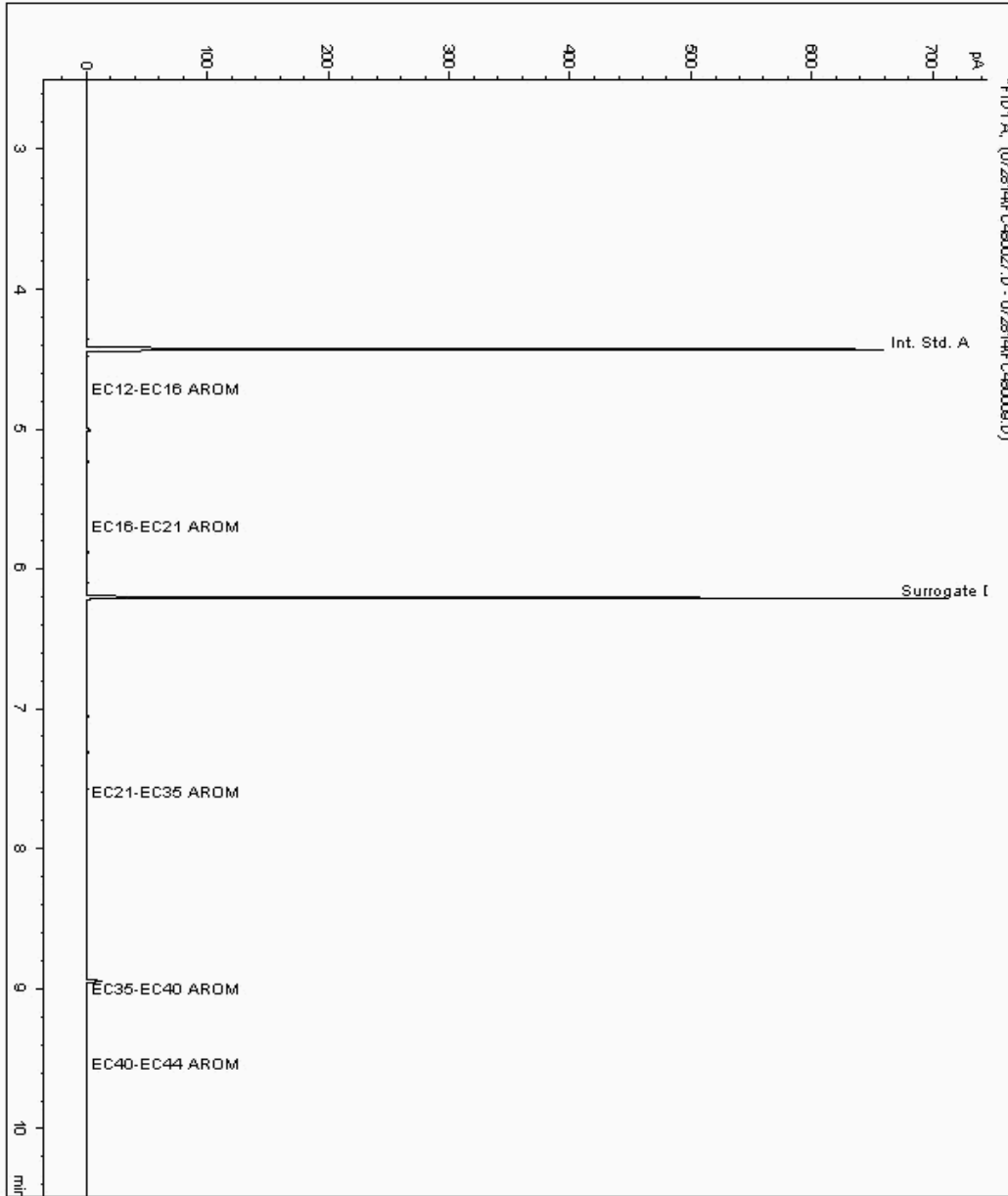
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665120
Sample ID : CG BH 11

Depth :

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

Sample Identity: 9167539-9665120
Date Acquired : 29/07/2014 01:18:20 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

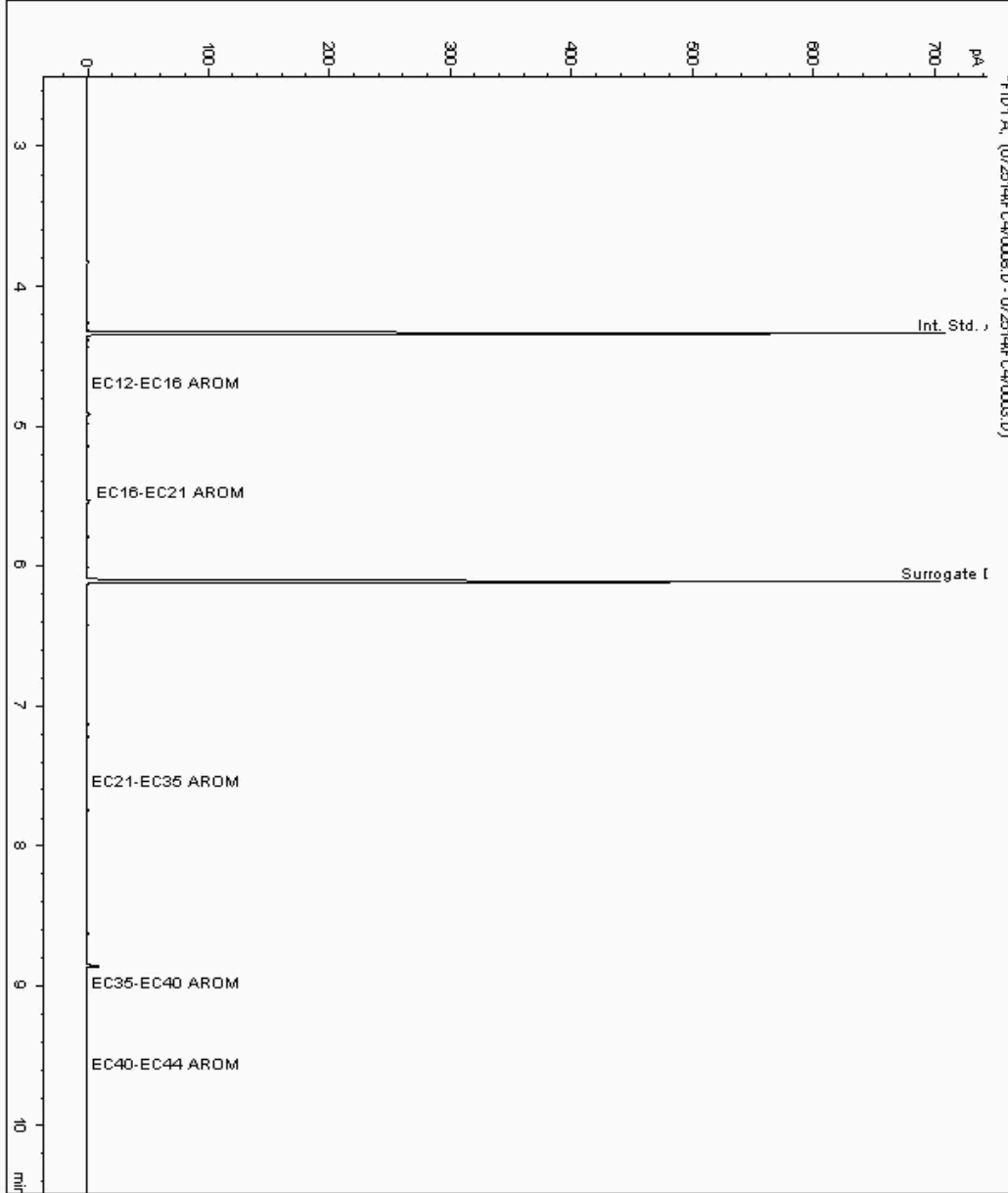
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665133
Sample ID : CG BH 24

Depth :

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

Sample Identity: 9167662-9665133
Date Acquired : 25/07/14 19:29:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

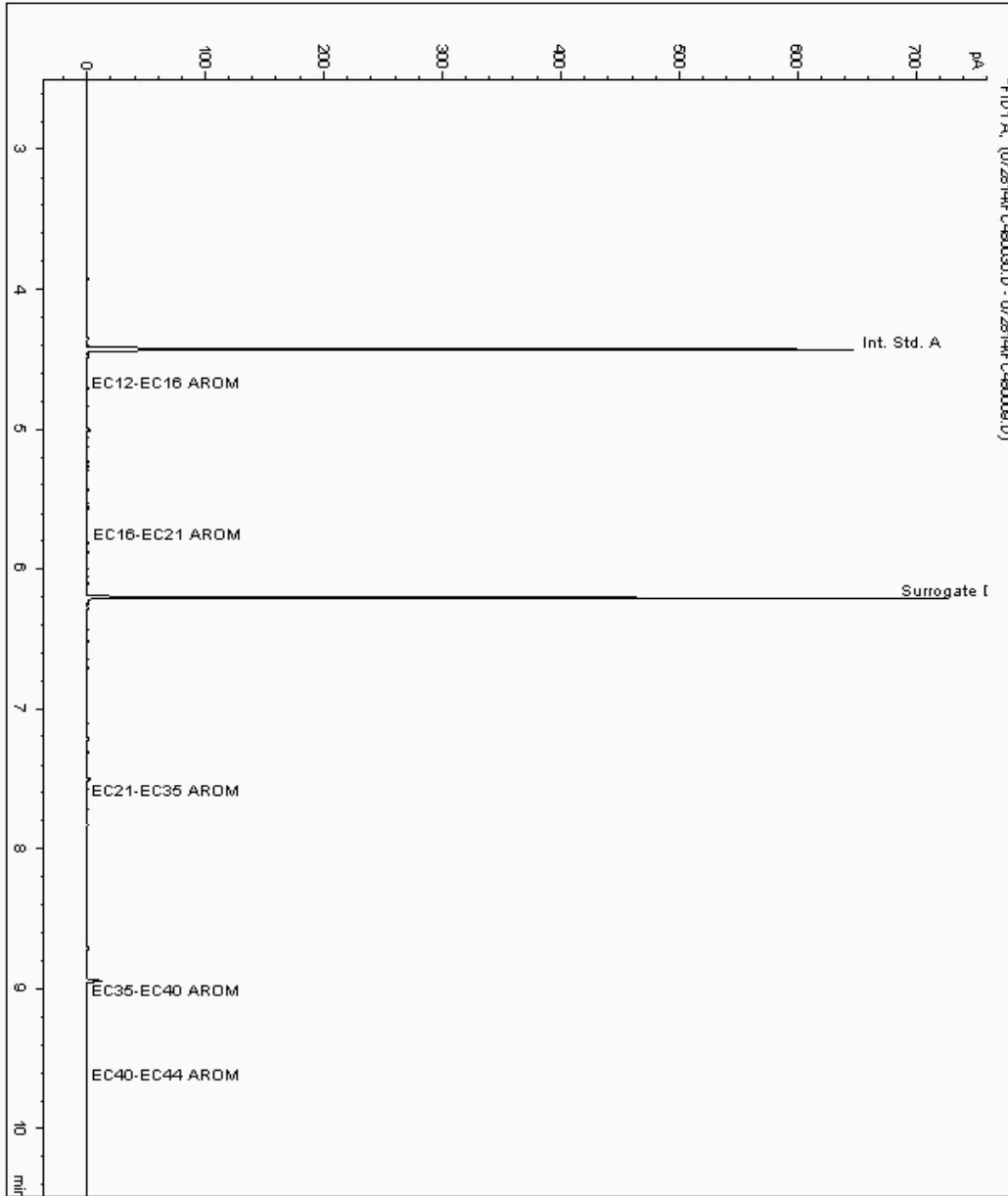
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665159
Sample ID : CG BH 14

Depth :

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

Sample Identity: 9167601-9665159
Date Acquired : 29/07/2014 02:06:54 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

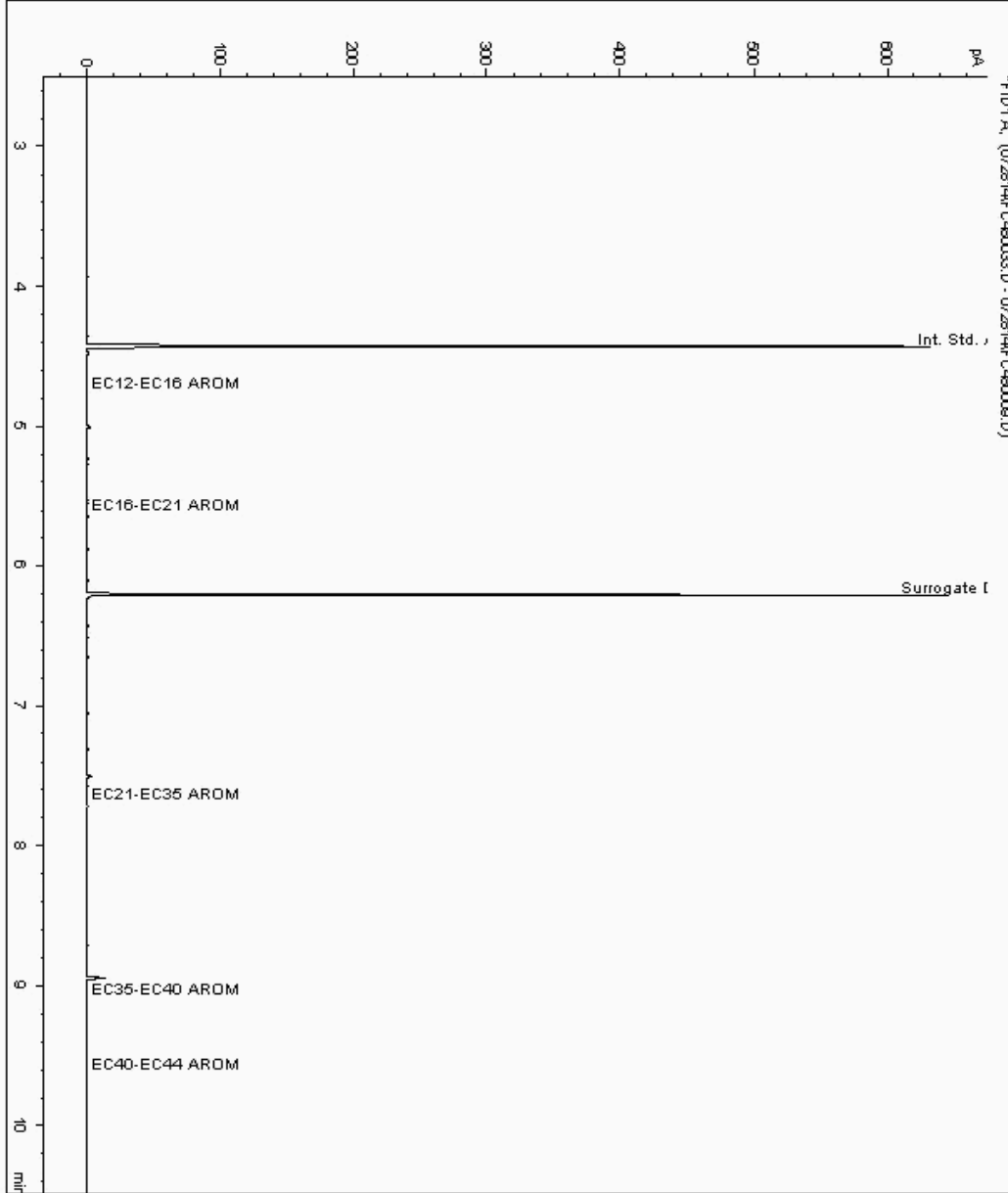
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665180
Sample ID : CG BH 07

Depth :

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

Sample Identity: 9167687-9665180
Date Acquired : 29/07/2014 03:05:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

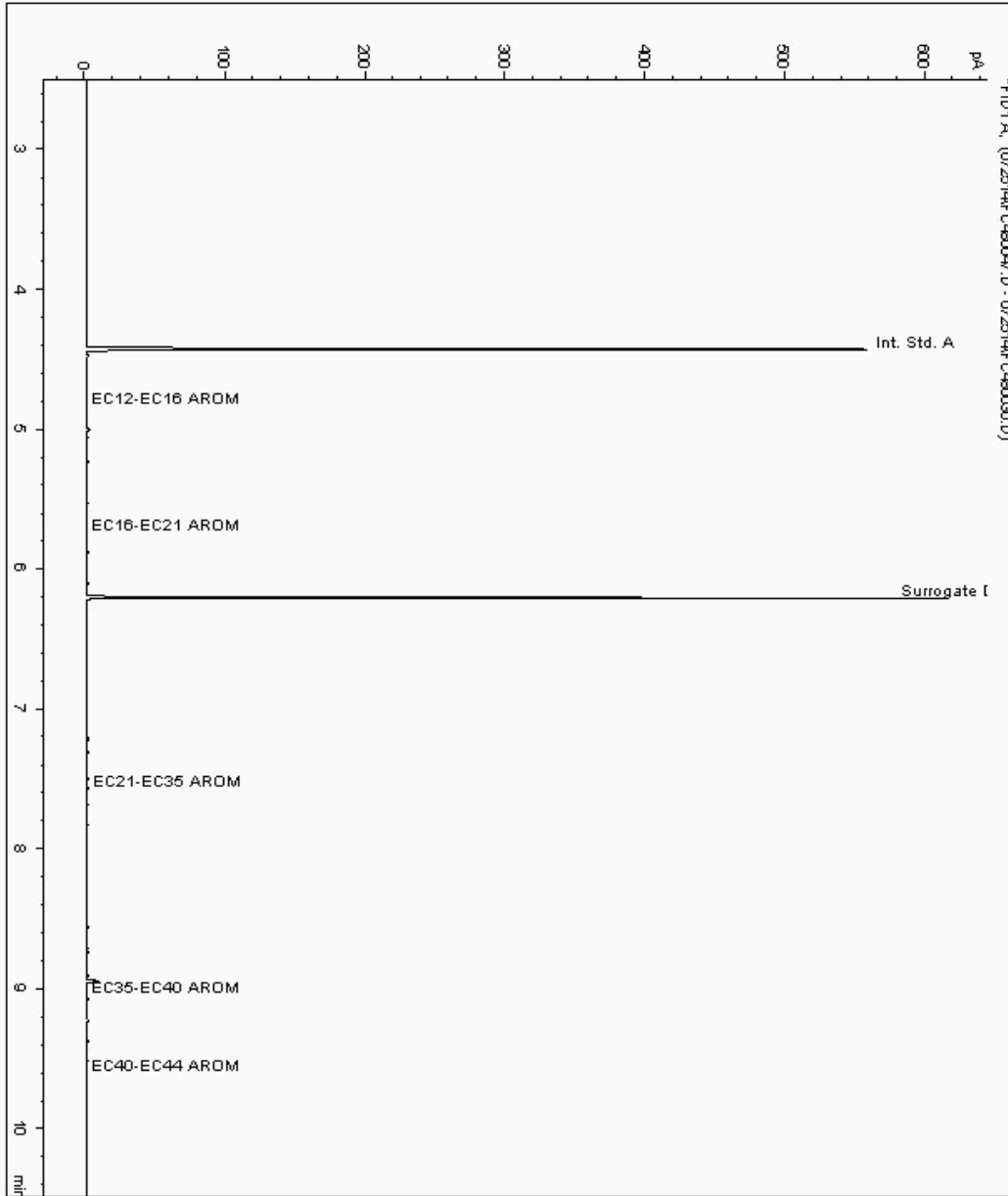
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665190
Sample ID : CG BH 01

Depth :

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

Sample Identity: 9167625-9665190
Date Acquired : 26/07/2014 07:30:56 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.009





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

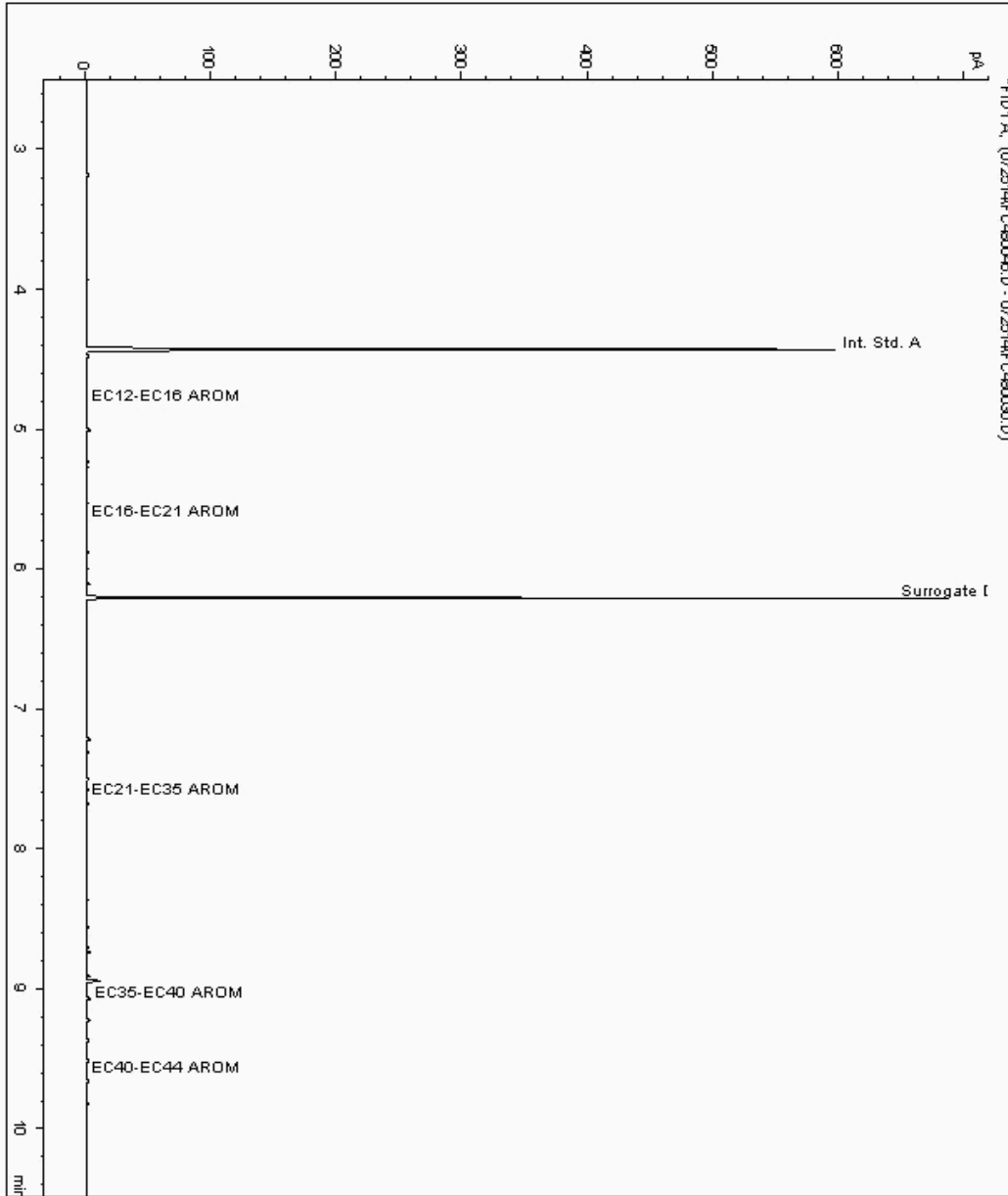
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665835
Sample ID : CG BH 13

Depth :

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

Sample Identity: 9167586-9665835
Date Acquired : 26/07/2014 06:53:35 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.009





SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

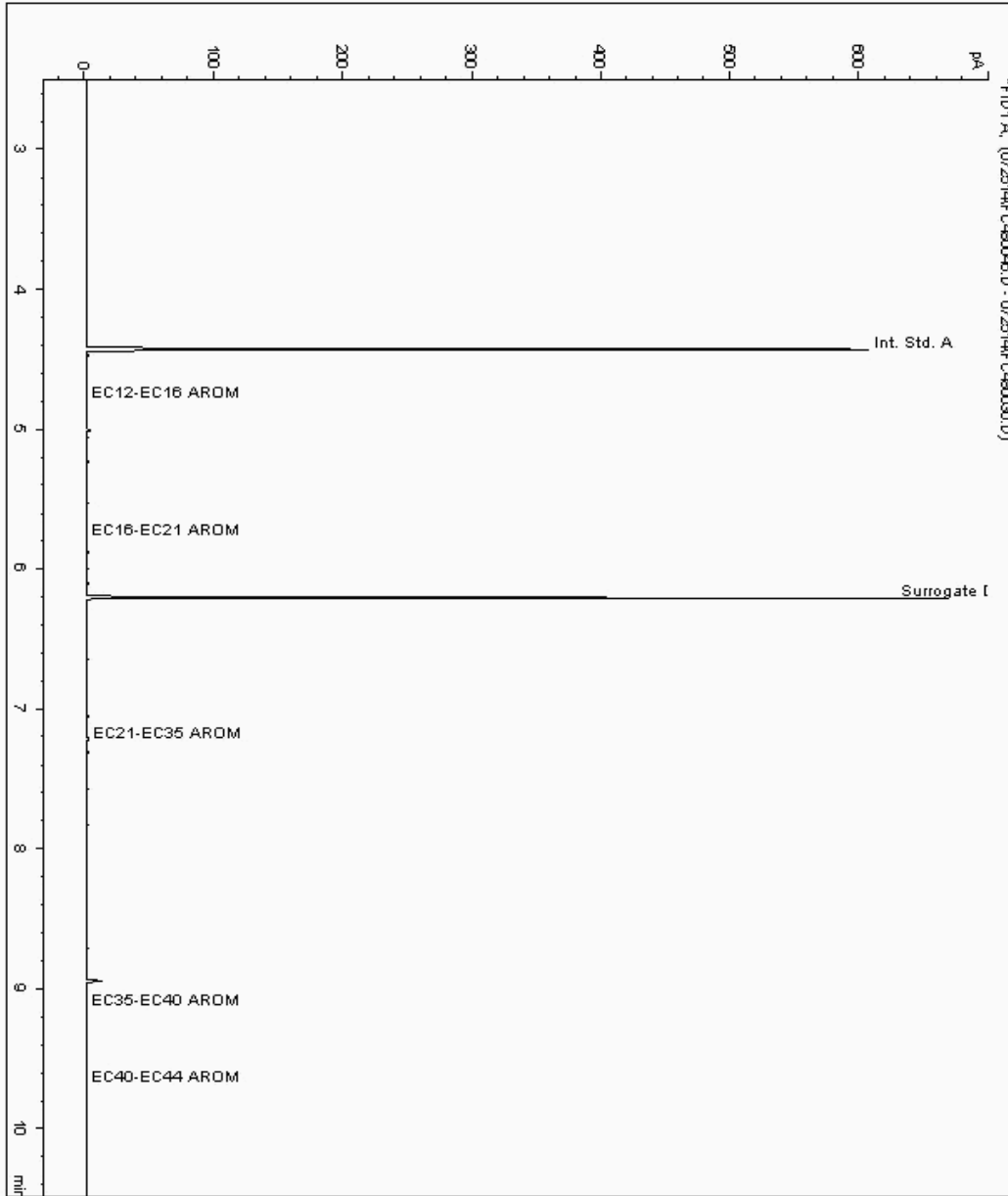
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665849
Sample ID : CG BH 10

Depth :

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

Sample Identity: 9167517-9665849
Date Acquired : 26/07/2014 07:12:21 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

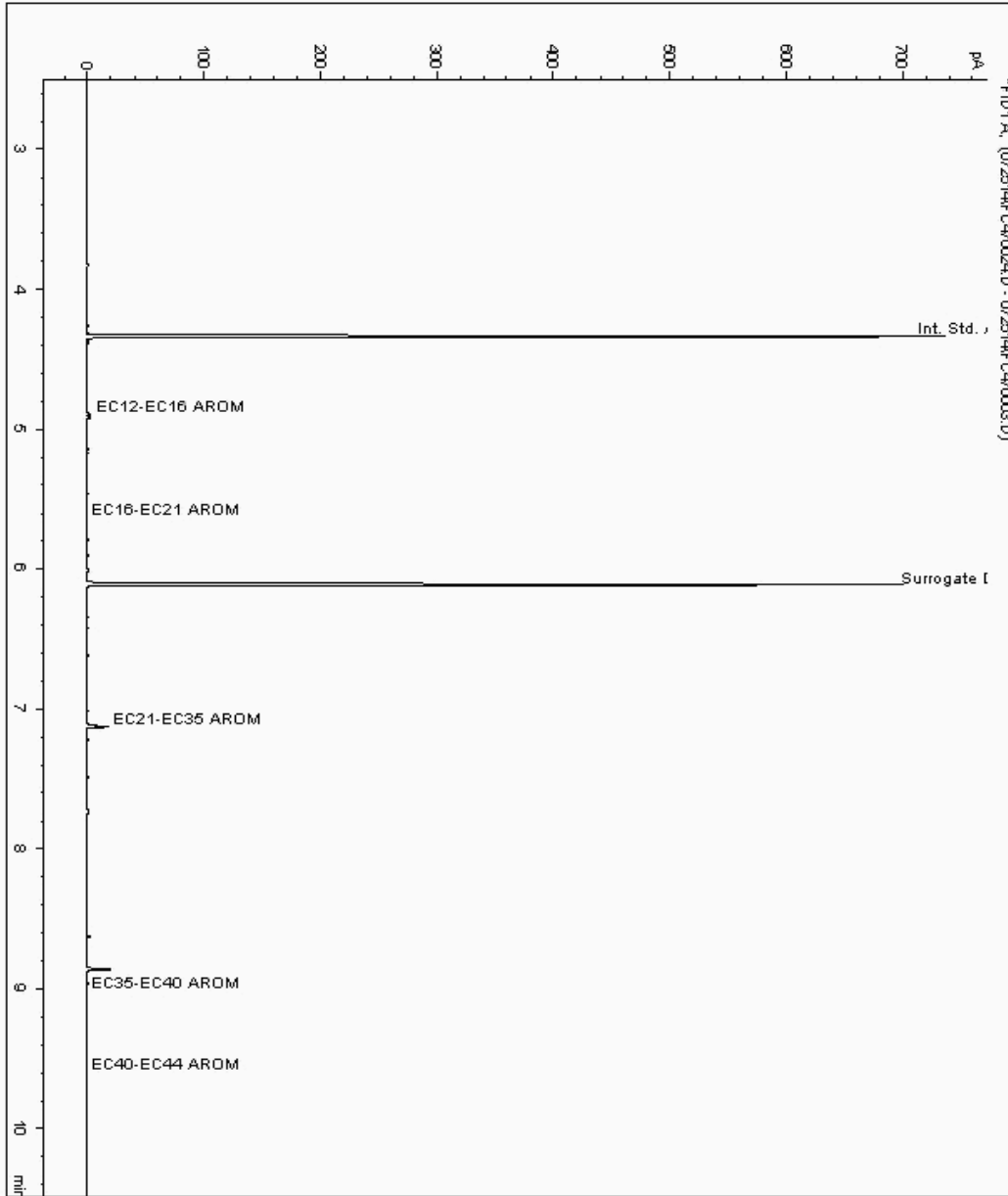
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 9665886
Sample ID : CG BH 09

Depth :

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

Sample Identity: 9167496-9665886
Date Acquired : 25/07/14 23:53:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.017





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

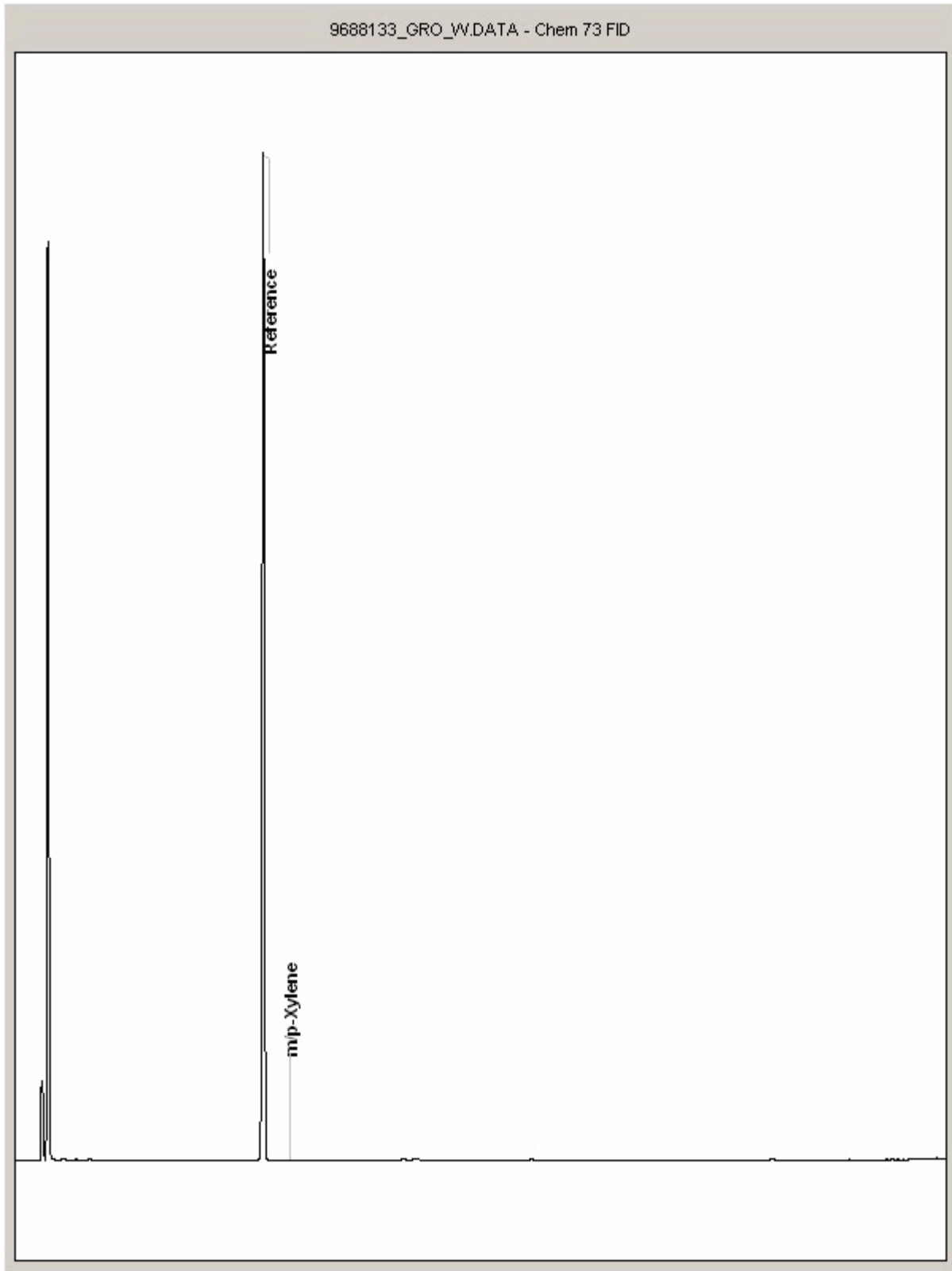
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688133
Sample ID : CG BH 12

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

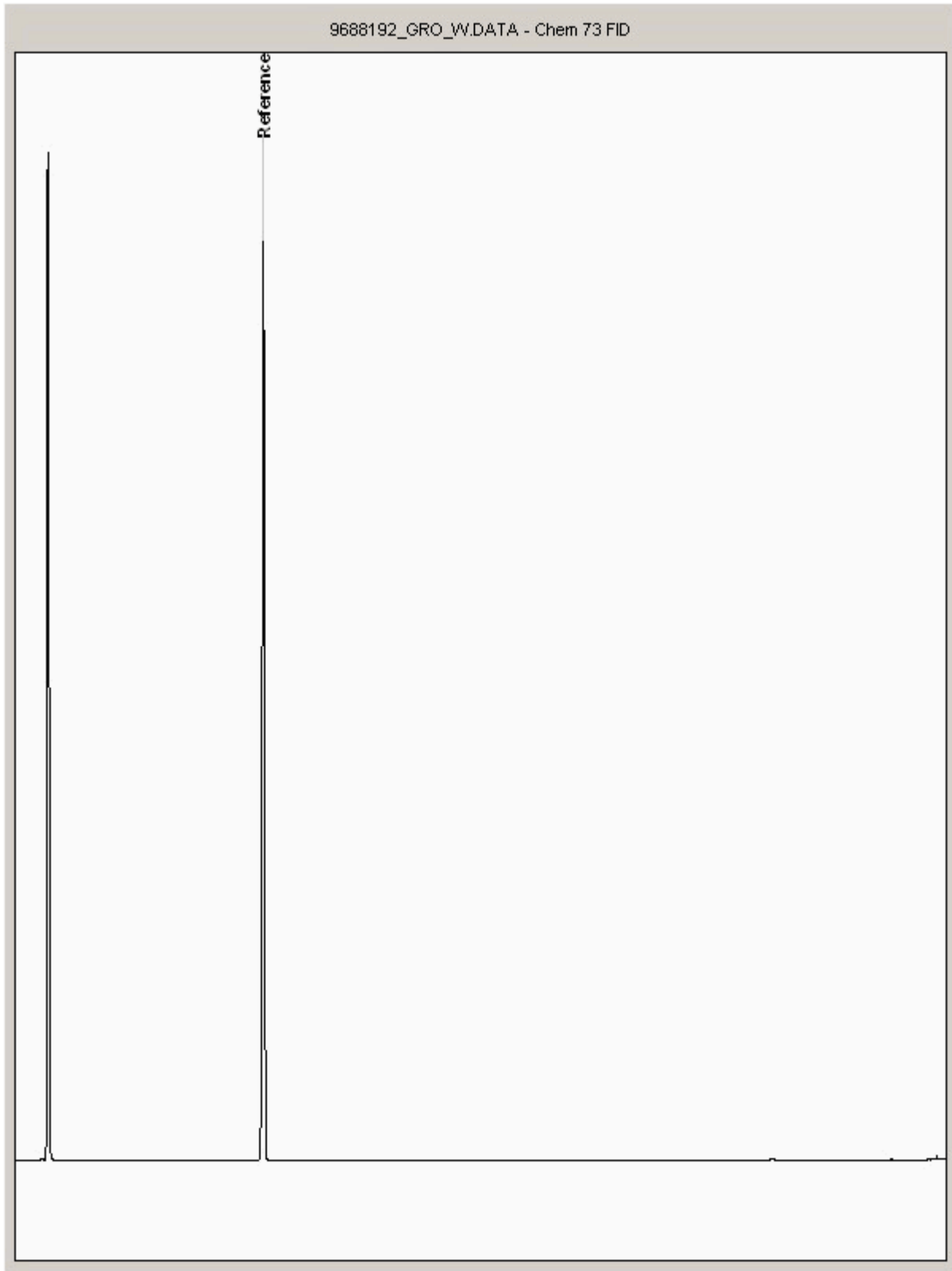
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688192
Sample ID : CG BH 09

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

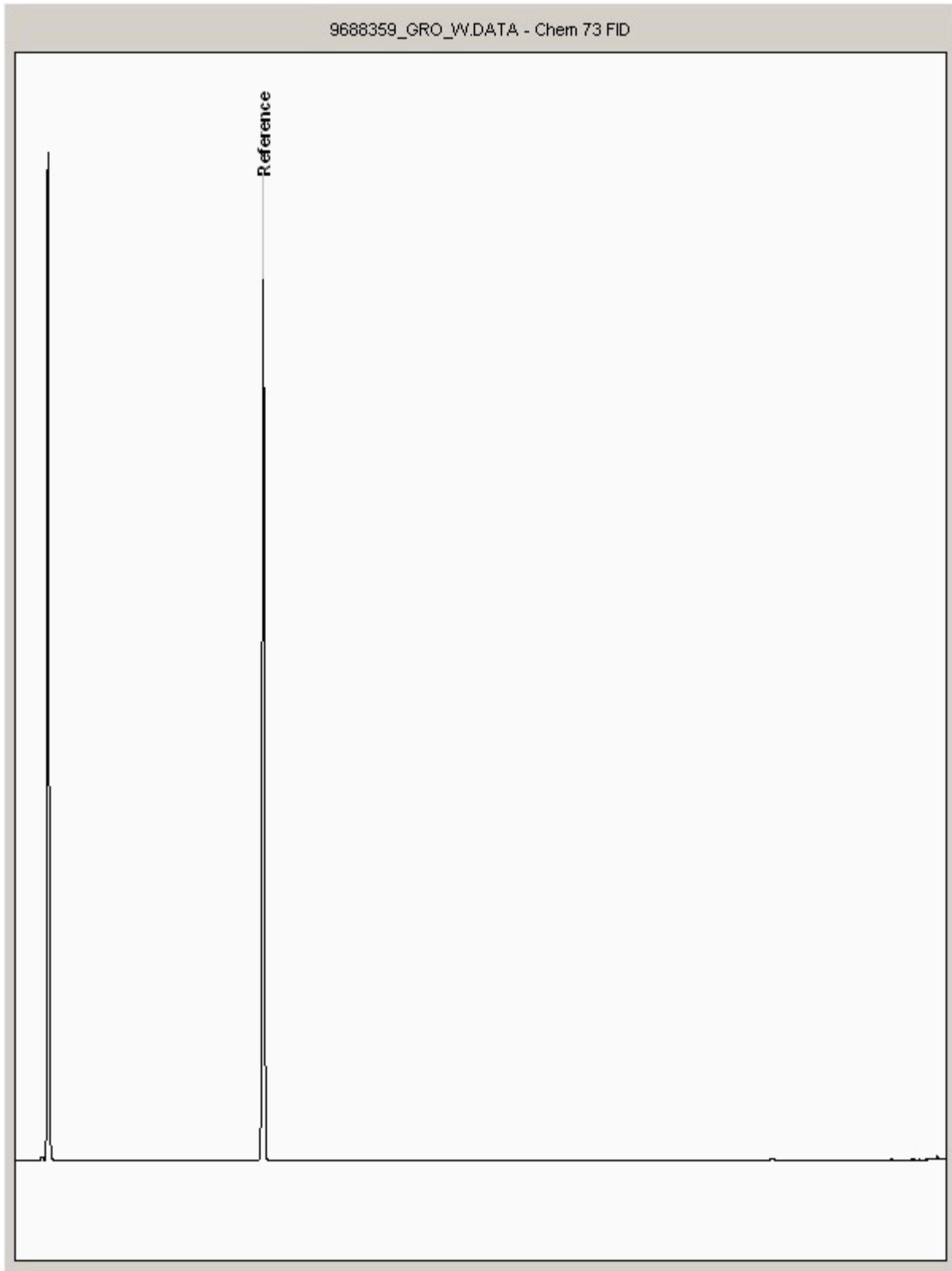
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688359
Sample ID : CG BH 10

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

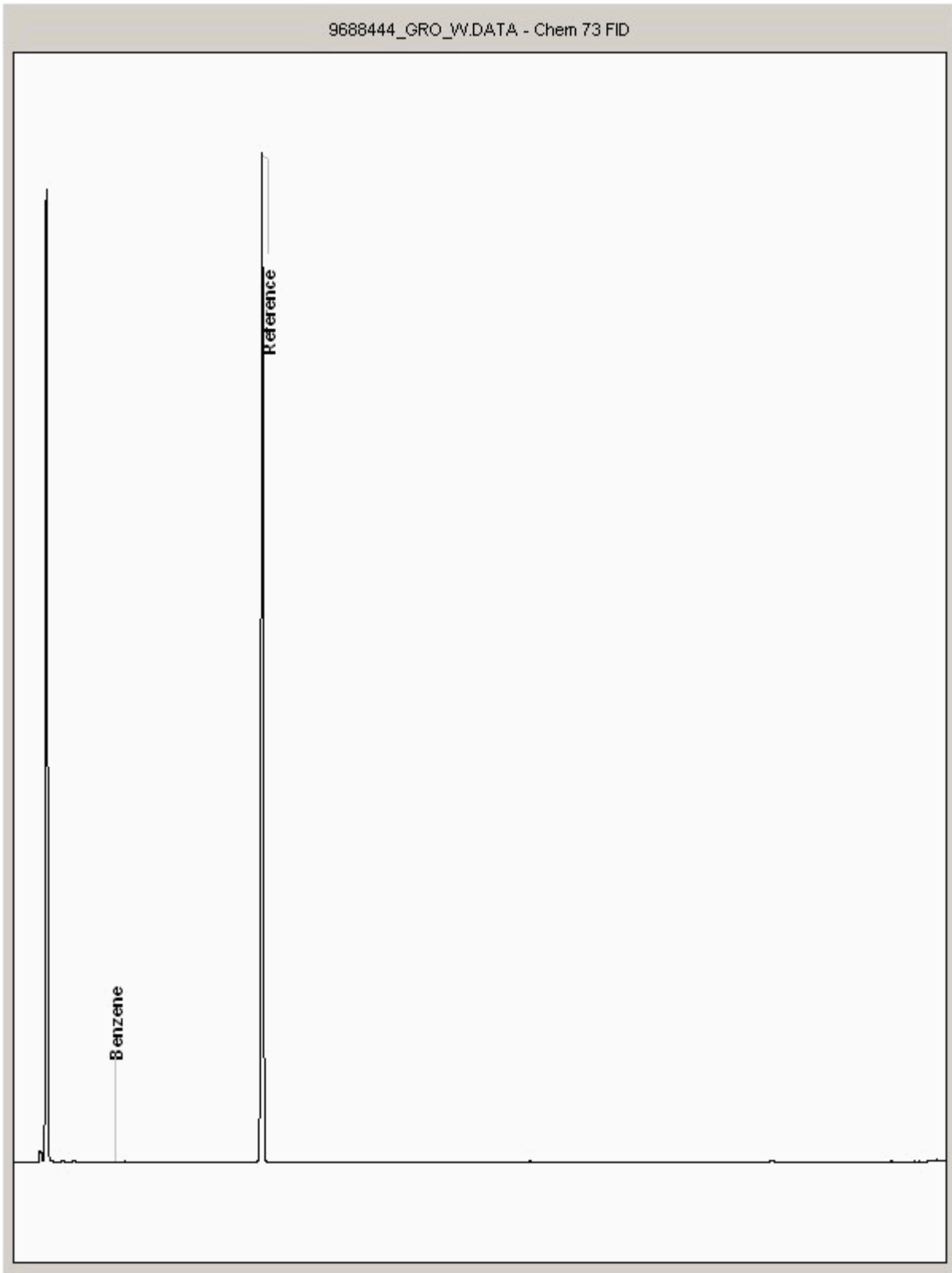
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688444
Sample ID : CG BH 13

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

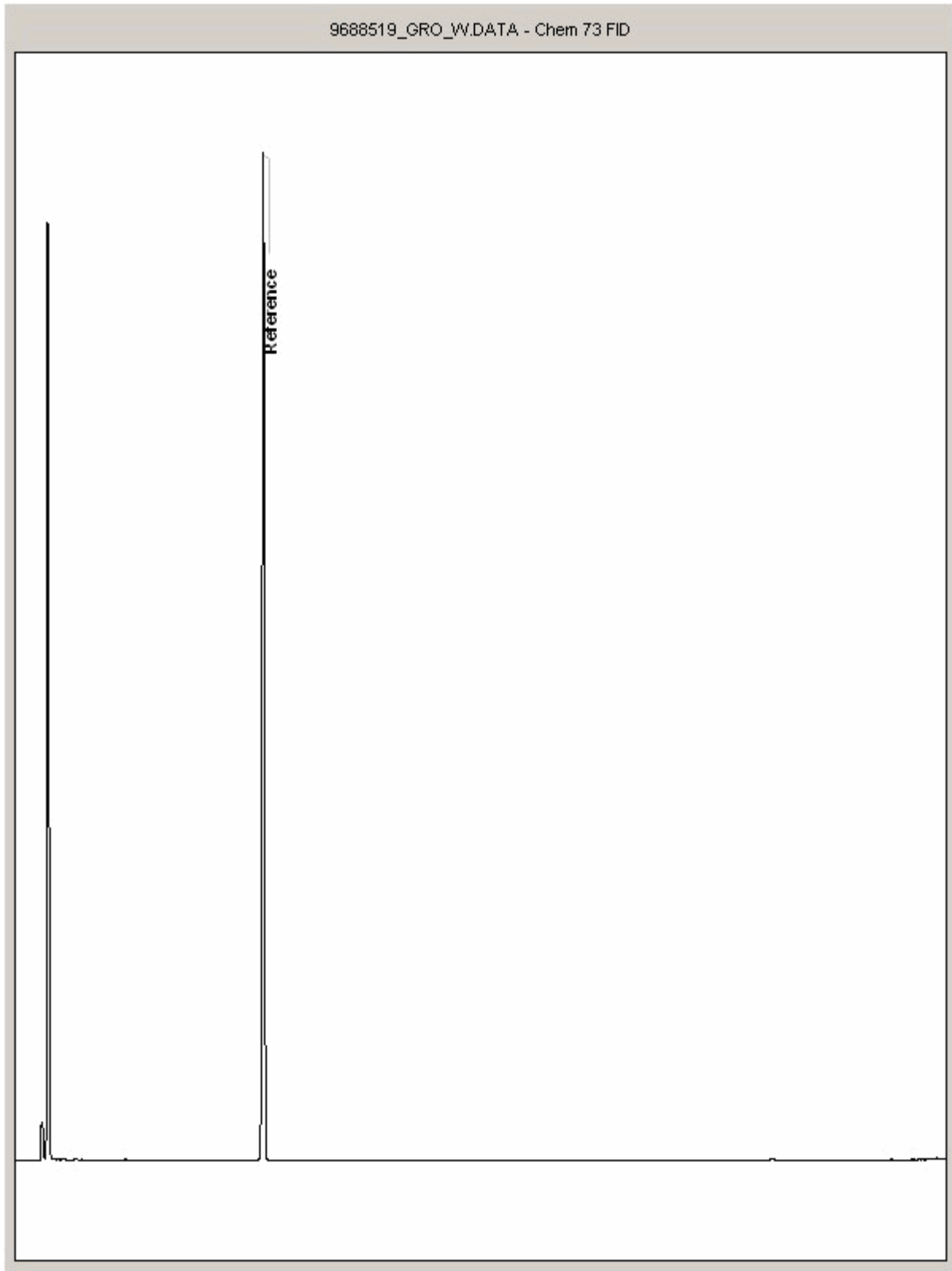
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688519
Sample ID : CG BH 14

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

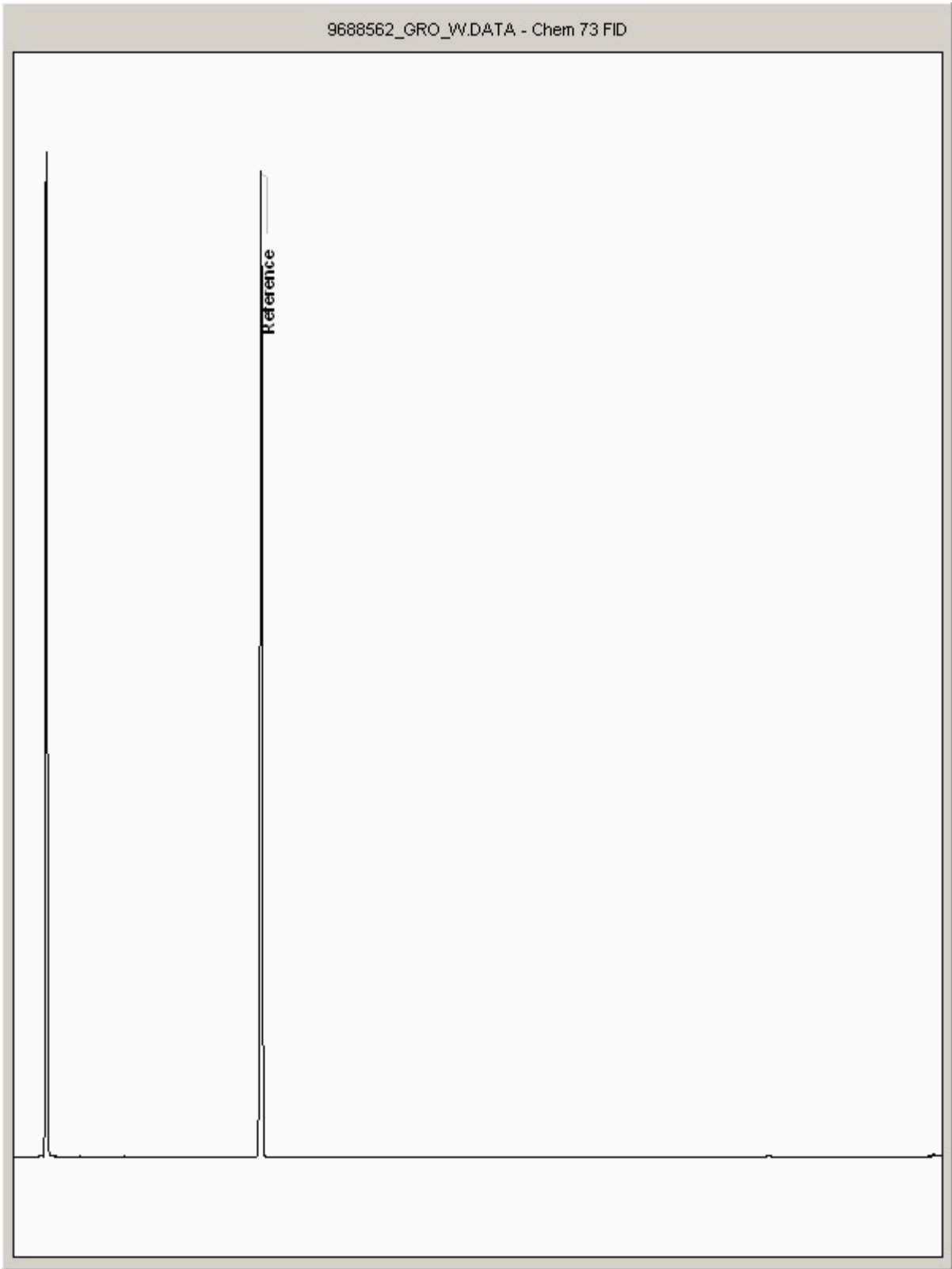
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688562
Sample ID : CG BH 11

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

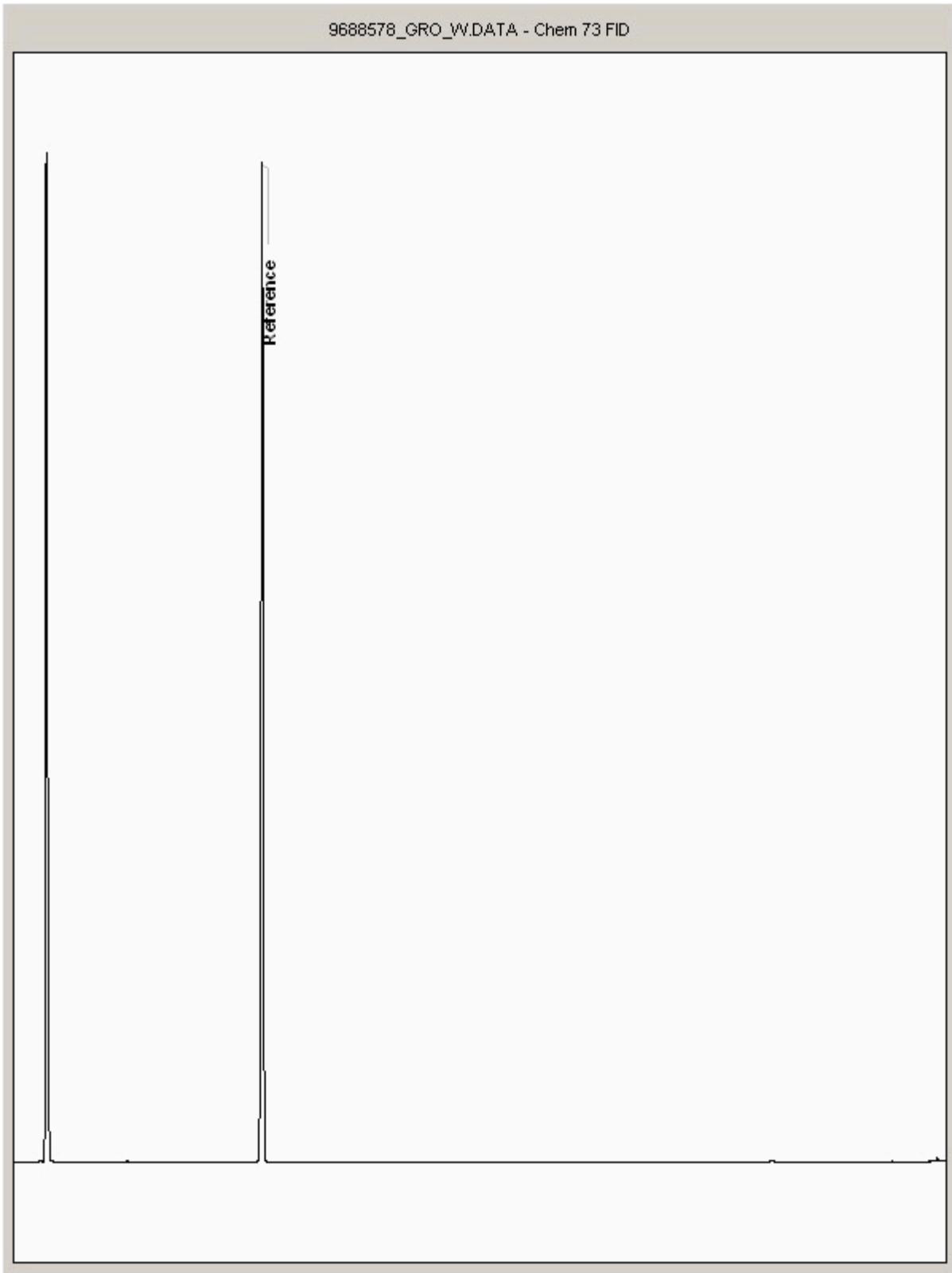
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688578
Sample ID : CG BH 01

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

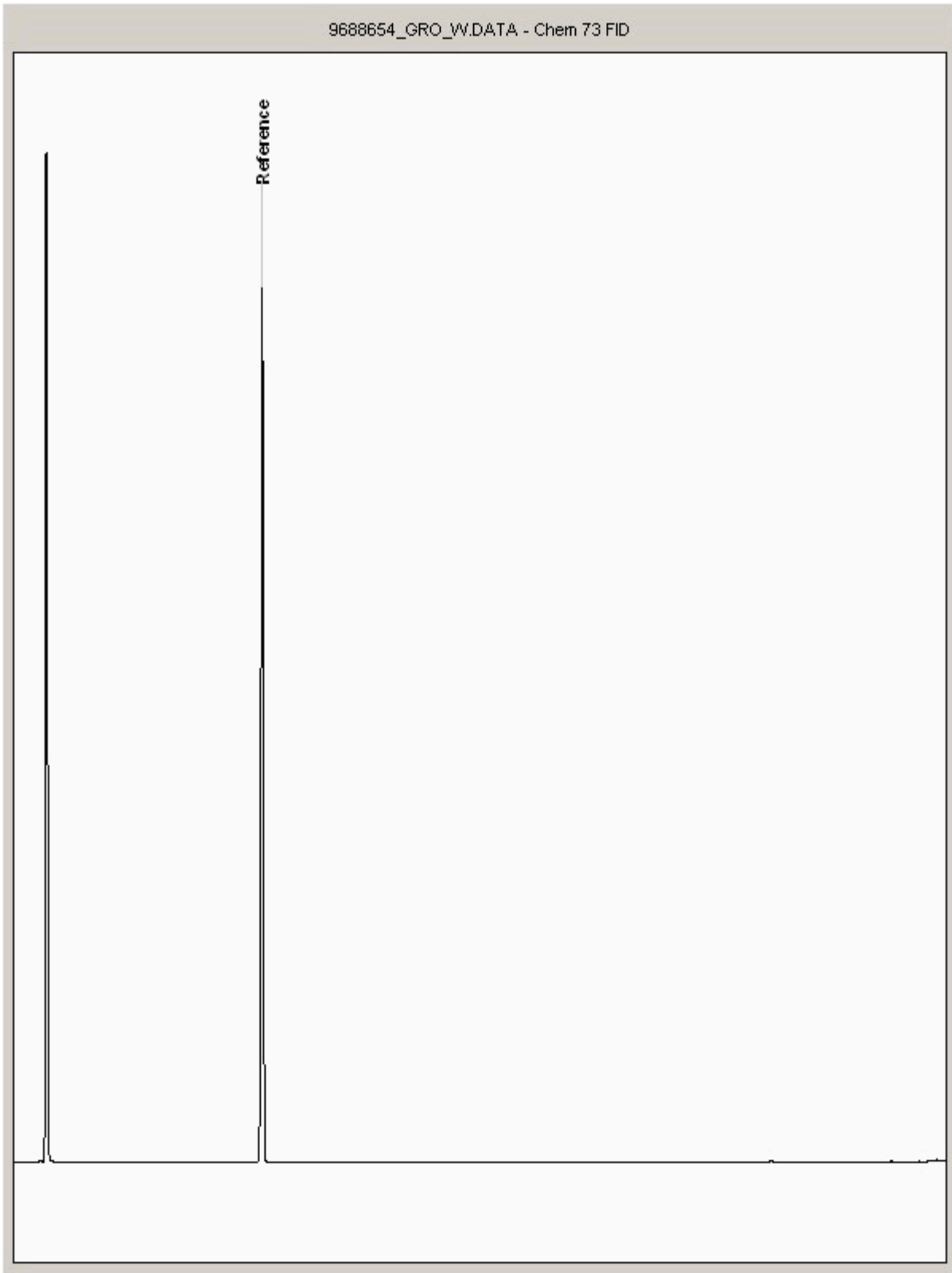
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688654
Sample ID : CG BH 07

Depth :





SDG: 140721-1
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

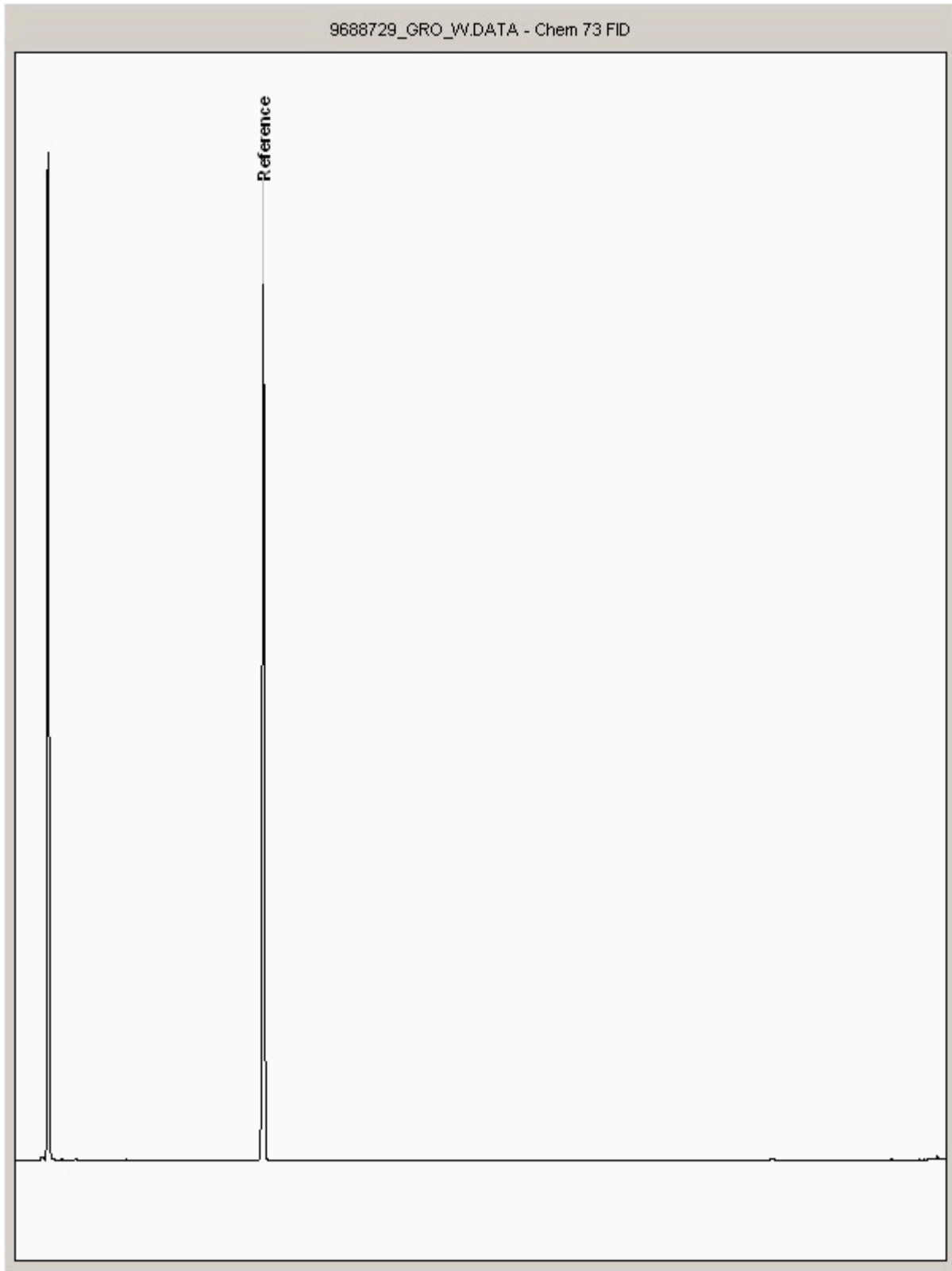
Order Number:
Report Number: 278539
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 9688729
Sample ID : CG BH 24

Depth :





SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
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 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	SOXTERM	GRAMMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOXTERM	GRAMMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOXTERM	IATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOXTERM	HPLC
PHENOLS BY GCMS	WET	DOM	SOXTERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOXTERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOXTERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH (MINOIL)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH CWG BY GC	D&C	HEXANEACETONE	END OVEREND	GCFID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40 (C6-C40) EZ FLASH	WET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPD GC	WET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE ORGANIC COMPOUNDS	WET	DOMACETONE	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 7 COGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COC/OPP	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.

SDG: 140721-1
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 278539
Superseded Report:

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.