



Royal Haskoning
Rightwell House
Bretton
Bretton
Peterborough
Cambridgeshire
PE3 8DW

Attention: Declan Fives

CERTIFICATE OF ANALYSIS

Date: 23 June 2014
Customer: H_RHASKON_PTB
Sample Delivery Group (SDG): 140611-59
Your Reference: 9Y0074 103 100
Location: Cole Green
Report No: 274380

We received 14 samples on Wednesday June 11, 2014 and 14 of these samples were scheduled for analysis which was completed on Monday June 23, 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: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9423356	CG HA 06		0.45 - 0.55	09/06/2014
9423357	CG HA 08		0.50 - 0.60	09/06/2014
9423358	CG HA 11		35.00 - 0.55	09/06/2014
9423359	CG HA 14		0.45 - 0.55	09/06/2014
9423360	CG HA 15		0.45 - 0.55	09/06/2014
9423363	CG HA 19		0.45 - 0.55	09/06/2014
9423364	CG HA 20		0.30 - 0.40	09/06/2014
9423365	CG HA 26		0.35 - 0.50	09/06/2014
9423366	CG HA 27		0.40 - 0.55	09/06/2014
9423368	CG HA 28		0.30 - 0.50	09/06/2014
9423369	CG HA 31		0.35 - 0.45	09/06/2014
9423370	CG HA 32		0.40 - 0.50	09/06/2014
9423371	CG HA 33		0.40 - 0.70	09/06/2014
9423372	CG HA 36		0.35 - 0.50	09/06/2014

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



SDG: 140611-59
 Job: H_RHASKON_PT8-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 274380
 Superseded Report:

SOLID Results Legend Test No Determination Possible	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	
		9423372	CG HA 36		0.35 - 0.50	1kg TUB
		9423371	CG HA 33		0.40 - 0.70	60g VOC (ALEE15) 250g Amber Jar (AL)
		9423370	CG HA 32		0.40 - 0.50	60g VOC (ALEE15) 250g Amber Jar (AL)
		9423369	CG HA 31		0.35 - 0.45	60g VOC (ALEE15) 250g Amber Jar (AL)
	9423368	CG HA 28		0.30 - 0.50	60g VOC (ALEE15) 1kg TUB	
	9423366	CG HA 27		0.40 - 0.55	60g VOC (ALEE15) 250g Amber Jar (AL)	
	9423365	CG HA 26		0.35 - 0.50	60g VOC (ALEE15) 250g Amber Jar (AL)	
	9423364	CG HA 20		0.30 - 0.40	60g VOC (ALEE15) 250g Amber Jar (AL)	
	9423363	CG HA 19		0.45 - 0.55	60g VOC (ALEE15) 1kg TUB	
	9423360	CG HA 15		0.45 - 0.55	60g VOC (ALEE15) 250g Amber Jar (AL)	
	9423359	CG HA 14		0.45 - 0.55	60g VOC (ALEE15) 250g Amber Jar (AL)	
	9423358	CG HA 11		35.00 - 0.55	60g VOC (ALEE15) 1kg TUB	
	9423357	CG HA 08		0.50 - 0.60	60g VOC (ALEE15) 1kg TUB	
	9423356	CG HA 06		0.45 - 0.55	60g VOC (ALEE15) 250g Amber Jar (AL)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 14				
Boron Water Soluble	All	NDPs: 0 Tests: 14				
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 5				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 14				
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 14				
GRO by GC-FID (S)	All	NDPs: 0 Tests: 14				
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 5				
Metals in solid samples by OES	All	NDPs: 0 Tests: 14				
OC, OP Pesticides and Triazine Herb	All	NDPs: 0 Tests: 5				
PCBs by GCMS	All	NDPs: 0 Tests: 5				
pH	All	NDPs: 0 Tests: 7				
Phenols by HPLC (S)	All	NDPs: 0 Tests: 14				
Sample description	All	NDPs: 0 Tests: 14				
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 14				
Total Organic Carbon	All	NDPs: 0 Tests: 7				



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SOLID			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
Results Legend Test No Determination Possible			9423372	CG HA 36		0.35 - 0.50	1kg TUB
			9423371	CG HA 33		0.40 - 0.70	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423370	CG HA 32		0.40 - 0.50	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423369	CG HA 31		0.35 - 0.45	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423368	CG HA 28		0.30 - 0.50	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423366	CG HA 27		0.40 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423365	CG HA 26		0.35 - 0.50	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423364	CG HA 20		0.30 - 0.40	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423363	CG HA 19		0.45 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423360	CG HA 15		0.45 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423359	CG HA 14		0.45 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423358	CG HA 11		35.00 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423357	CG HA 08		0.50 - 0.60	60g VOC (ALEE215) 250g Amber Jar (AL)
			9423356	CG HA 06		0.45 - 0.55	60g VOC (ALEE215) 250g Amber Jar (AL)
TPH CWG GC (S)	All	NDPs: 0 Tests: 14					
VOC MS (S)	All	NDPs: 0 Tests: 14					



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SOLID		
Results Legend Test No Determination Possible	Lab Sample No(s)	9423372
	Customer Sample Reference	CG HA 36
	AGS Reference	
	Depth (m)	0.35 - 0.50
	Container	60g VOC (ALE215) 250g Amber Jar (AL
Boron Water Soluble	All	NDPs: 0 Tests: 14
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 14
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 14
GRO by GC-FID (S)	All	NDPs: 0 Tests: 14
Metals in solid samples by OES	All	NDPs: 0 Tests: 14
OC, OP Pesticides and Triazine Herb	All	NDPs: 0 Tests: 5
PCBs by GCMS	All	NDPs: 0 Tests: 5
Sample description	All	NDPs: 0 Tests: 14
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 14
Total Organic Carbon	All	NDPs: 0 Tests: 7
TPH CWG GC (S)	All	NDPs: 0 Tests: 14
VOC MS (S)	All	NDPs: 0 Tests: 14



SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

Location: Cole Green
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Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9423356	CG HA 06	0.45 - 0.55	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Crushed Brick
9423357	CG HA 08	0.50 - 0.60	Beige	Silty Clay Loam	0.063 - 0.1 mm	Crushed Brick	Stones
9423358	CG HA 11	35.00 - 0.55	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
9423359	CG HA 14	0.45 - 0.55	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9423360	CG HA 15	0.45 - 0.55	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9423363	CG HA 19	0.45 - 0.55	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9423364	CG HA 20	0.30 - 0.40	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
9423365	CG HA 26	0.35 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9423366	CG HA 27	0.40 - 0.55	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9423368	CG HA 28	0.30 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9423369	CG HA 31	0.35 - 0.45	Dark Brown	Silty Clay	0.063 - 0.1 mm	Crushed Brick	Stones
9423370	CG HA 32	0.40 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9423371	CG HA 33	0.40 - 0.70	Beige	Silty Clay Loam	0.063 - 0.1 mm	N/A	Stones
9423372	CG HA 36	0.35 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

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 materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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Results Legend			Customer Sample R		CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19
#	ISO17025 accredited.		Depth (m)		0.45 - 0.55	0.50 - 0.60	35.00 - 0.55	0.45 - 0.55	0.45 - 0.55	0.45 - 0.55
M	mCERTS accredited.		Sample Type		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		Date Sampled		09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
diss.filt	Dissolved / filtered sample.		Sampled Time							
tot.unfilt	Total / unfiltered sample.		Date Received		11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
*	Subcontracted test.		SDG Ref		140611-59	140611-59	140611-59	140611-59	140611-59	140611-59
**	% 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		Lab Sample No.(s)		9423356	9423357	9423358	9423359	9423360	9423363
(F)	Trigger breach confirmed		AGS Reference							
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Moisture Content Ratio	%	PM024			13	21	10	18	10	16
Phenol	<0.01 mg/kg	TM062 (S)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	<0.01 mg/kg	TM062 (S)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	<0.015 mg/kg	TM062 (S)			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)			<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Fraction Organic Carbon (FOC)	<0.002 -	TM132				0.0171	0.00382		0.00207	0.00342
pH	1 pH Units	TM133				8.23	8.55		7.76	7.45
Chromium, Hexavalent	<0.6 mg/kg	TM151					<0.6			<0.6
Cyanide, Total	<1 mg/kg	TM153					<1			<1
PCB congener 28	<3 µg/kg	TM168					<3			<3
PCB congener 52	<3 µg/kg	TM168					<3			<3
PCB congener 101	<3 µg/kg	TM168					<3			<3
PCB congener 118	<3 µg/kg	TM168					<3			<3
PCB congener 138	<3 µg/kg	TM168					<3			<3
PCB congener 153	<3 µg/kg	TM168					<3			<3
PCB congener 180	<3 µg/kg	TM168					<3			<3
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168					<21			<21
Arsenic	<0.6 mg/kg	TM181			16.3	17.1	13.6	12	7.52	19.9
Barium	<0.6 mg/kg	TM181			78.6	153	63.1	48.5	46.8	65.3
Beryllium	<0.01 mg/kg	TM181			1.41	1.39	0.962	0.976	1.06	1.41
Cadmium	<0.02 mg/kg	TM181			0.4	0.627	0.305	0.322	0.256	0.467
Chromium	<0.9 mg/kg	TM181			30.6	43.5	20.7	21	20.3	33.5
Copper	<1.4 mg/kg	TM181			19.3	80.9	19	12.8	10.5	19.1
Lead	<0.7 mg/kg	TM181			42.8	122	31.1	19.6	15.5	30.1
Mercury	<0.14 mg/kg	TM181			<0.14	0.204	0.192	0.192	<0.14	<0.14
Nickel	<0.2 mg/kg	TM181			24.8	42.2	23.5	21.1	16.5	35
Selenium	<1 mg/kg	TM181			<1	<1	<1	<1	<1	<1
Vanadium	<0.2 mg/kg	TM181			52	69.7	34.8	38.3	36.5	58.8
Zinc	<1.9 mg/kg	TM181			74.9	254	69.9	55.9	48.5	92.4
Boron, water soluble	<1 mg/kg	TM222			<1	1.42	<1	<1	<1	<1



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Client Reference: 9Y0074 103 100

Location: Cole Green
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Order Number:
Report Number: 274380
Superseded Report:

Results Legend		Customer Sample R	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50	0.35 - 0.45	0.40 - 0.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
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					
Moisture Content Ratio	%	PM024	12	8.3	11	9.3	11	9
Phenol	<0.01 mg/kg	TM062 (S)	<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M
Cresols	<0.01 mg/kg	TM062 (S)	0.0226 M	0.0109 M	<0.01 M	0.121 M	<0.01 M	<0.01 M
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015 M	<0.015 M	<0.015 M	0.022 M	<0.015 M	<0.015 M
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015 M	<0.015 M	<0.015 M	<0.015 M	<0.015 M	<0.015 M
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06 M	<0.06 M	<0.06 M	0.143 M	<0.06 M	<0.06 M
Fraction Organic Carbon (FOC)	<0.002 -	TM132			<0.002 #	0.0178 #		
pH	1 pH Units	TM133			7.66 M	8.11 M		
Chromium, Hexavalent	<0.6 mg/kg	TM151			<0.6 #	<0.6 #		
Cyanide, Total	<1 mg/kg	TM153			<1 M	<1 M		
PCB congener 28	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 52	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 101	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 118	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 138	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 153	<3 µg/kg	TM168			<3 M	<3 M		
PCB congener 180	<3 µg/kg	TM168			<3 M	<3 M		
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168			<21	<21		
Arsenic	<0.6 mg/kg	TM181	14.8 M	16.7 M	20.2 M	24.4 M	13.6 M	16.3 M
Barium	<0.6 mg/kg	TM181	59.2 #	109 #	57 #	69.6 #	53.5 #	175 #
Beryllium	<0.01 mg/kg	TM181	1.19 M	1.03 M	1.48 M	0.912 M	1.57 M	1.62 M
Cadmium	<0.02 mg/kg	TM181	0.607 M	0.704 M	0.458 M	0.604 M	0.348 M	0.649 M
Chromium	<0.9 mg/kg	TM181	27 M	31.4 M	27.4 M	25.3 M	27.6 M	29.1 M
Copper	<1.4 mg/kg	TM181	24.7 M	35.8 M	14.4 M	21.6 M	16 M	39.1 M
Lead	<0.7 mg/kg	TM181	25.3 M	95.2 M	18 M	69 M	13.8 M	64.1 M
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181	30 M	21.1 M	27.7 M	26.4 M	28.7 M	30 M
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181	42.6 #	38.4 #	49 #	51.4 #	43.8 #	54.6 #
Zinc	<1.9 mg/kg	TM181	76.8 M	110 M	61.4 M	91.9 M	68.1 M	121 M
Boron, water soluble	<1 mg/kg	TM222	<1 M	<1 M	<1 M	<1 M	<1 M	<1 M



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Order Number:
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Superseded Report:

Results Legend		Customer Sample R	CG HA 33	CG HA 36			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					
M	mCERTS accredited.		0.40 - 0.70	0.35 - 0.50			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		09/06/2014	09/06/2014			
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		11/06/2014	11/06/2014			
(F)	Trigger breach confirmed		140611-59	140611-59			
1-5&*\$@	Sample deviation (see appendix)		9423371	9423372			
Component	LOD/Units	Method					
Moisture Content Ratio	%	PM024	14	9			
Phenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
Cresols	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
Xylenols	<0.015 mg/kg	TM062 (S)	<0.015	<0.015			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)	<0.01	<0.01			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)	<0.015	<0.015			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)	<0.06	<0.06			
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0117			
pH	1 pH Units	TM133		7.81			
Chromium, Hexavalent	<0.6 mg/kg	TM151		<1.2			
Cyanide, Total	<1 mg/kg	TM153		<1			
PCB congener 28	<3 µg/kg	TM168		<3			
PCB congener 52	<3 µg/kg	TM168		<3			
PCB congener 101	<3 µg/kg	TM168		<3			
PCB congener 118	<3 µg/kg	TM168		<3			
PCB congener 138	<3 µg/kg	TM168		<3			
PCB congener 153	<3 µg/kg	TM168		<3			
PCB congener 180	<3 µg/kg	TM168		<3			
Sum of detected PCB 7 Congeners	<21 µg/kg	TM168		<21			
Arsenic	<0.6 mg/kg	TM181	8.69	14.9			
Barium	<0.6 mg/kg	TM181	54.3	120			
Beryllium	<0.01 mg/kg	TM181	1.09	1.7			
Cadmium	<0.02 mg/kg	TM181	0.279	0.616			
Chromium	<0.9 mg/kg	TM181	13.9	27.3			
Copper	<1.4 mg/kg	TM181	9.76	32.7			
Lead	<0.7 mg/kg	TM181	22.3	97.2			
Mercury	<0.14 mg/kg	TM181	0.177	<0.14			
Nickel	<0.2 mg/kg	TM181	14.4	26.1			
Selenium	<1 mg/kg	TM181	<1	<1			
Vanadium	<0.2 mg/kg	TM181	23.8	47.4			
Zinc	<1.9 mg/kg	TM181	56	131			
Boron, water soluble	<1 mg/kg	TM222	<1	<1			



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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:

OC, OP Pesticides and Triazine Herb

Results Legend			Customer Sample R					
#	ISO17025 accredited.		CG HA 11	CG HA 19	CG HA 27	CG HA 28	CG HA 36	
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)							
		Depth (m)	35.00 - 0.55	0.45 - 0.55	0.40 - 0.55	0.30 - 0.50	0.35 - 0.50	
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
		Date Sampled	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	
		Sampled Time						
		Date Received	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	
		SDG Ref	140611-59	140611-59	140611-59	140611-59	140611-59	
		Lab Sample No.(s)	9423358	9423363	9423366	9423368	9423372	
		AGS Reference						
Component	LOD/Units	Method						
Dichlorvos	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Mevinphos	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Phorate	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
alpha-Hexachlorocyclohexane (HCH)	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Diazinon	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
gamma-Hexachlorocyclohexane (HCH / Lindane)	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Disulfoton	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Heptachlor	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Aldrin	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
beta-Hexachlorocyclohexane (HCH)	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Methyl parathion	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Malathion	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Fenitrothion	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Heptachlor epoxide	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Parathion	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
o,p-DDE	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Endosulphan I	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
p,p-DDE	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Dieldrin	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
o,p'-DDD (TDE)	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Endrin	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
o,p-DDT	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
p,p-TDE (DDD)	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Ethion	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Endosulphan II	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
p,p-DDT	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
o,p-Methoxychlor	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
p,p-Methoxychlor	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Endosulphan sulphate	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	
Azinphos-methyl	<50 µg/kg	TM073	<50	<50	<50	<1000	<500	



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Semi Volatile Organic Compounds

Results Legend			Customer Sample R	CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.			0.45 - 0.55	0.50 - 0.60	35.00 - 0.55	0.45 - 0.55	0.45 - 0.55	0.45 - 0.55
aq	Aqueous / settled sample.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
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			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
(F)	Trigger breach confirmed			140611-59	140611-59	140611-59	140611-59	140611-59	140611-59
1-5&*\$@	Sample deviation (see appendix)			9423356	9423357	9423358	9423359	9423360	9423363
Component	LOD/Units	Method							
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	316	<100	<100	<100	<100	365	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100	<100



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Semi Volatile Organic Compounds

Results Legend			Customer Sample R	CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19	
#	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.									
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								
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Benzo(a)anthracene	<100 µg/kg	TM157		173	<100	<100	<100	<100	<100	
Benzo(b)fluoranthene	<100 µg/kg	TM157		161	<100	<100	<100	<100	<100	
Benzo(k)fluoranthene	<100 µg/kg	TM157		122	<100	<100	<100	<100	<100	
Benzo(a)pyrene	<100 µg/kg	TM157		183	<100	<100	<100	<100	<100	
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Chrysene	<100 µg/kg	TM157		168	<100	<100	<100	<100	<100	
Fluoranthene	<100 µg/kg	TM157		316	<100	<100	<100	<100	<100	
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		131	<100	<100	<100	<100	<100	
Phenanthrene	<100 µg/kg	TM157		224	<100	<100	<100	<100	<100	
Pyrene	<100 µg/kg	TM157		296	<100	<100	<100	<100	<100	
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100	



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Semi Volatile Organic Compounds

Results Legend			Customer Sample R	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32
#	ISO17025 accredited.								
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)								
		Depth (m)	0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50	0.35 - 0.45	0.40 - 0.50	
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
		Date Sampled	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	
		Sampled Time							
		Date Received	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	
		SDG Ref	140611-59	140611-59	140611-59	140611-59	140611-59	140611-59	
		Lab Sample No.(s)	9423364	9423365	9423366	9423368	9423369	9423370	
		AGS Reference							
Component	LOD/Units	Method							
Phenol	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	147	261	<100	<400	<100	<100	
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	56700	<100	<100	
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	1130	<100	<100	
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<400	<100	<100	



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Semi Volatile Organic Compounds

Results Legend			Customer Sample R	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32	
#	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.									
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								
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	5380	<100	<100	
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<400	<100	<100	
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	702	<100	<100	
Anthracene	<100 µg/kg	TM157		<100	140	<100	1790	<100	198	
Benzo(a)anthracene	<100 µg/kg	TM157		147	821	<100	4780	<100	805	
Benzo(b)fluoranthene	<100 µg/kg	TM157		133	756	<100	3410	<100	700	
Benzo(k)fluoranthene	<100 µg/kg	TM157		122	678	<100	3350	<100	648	
Benzo(a)pyrene	<100 µg/kg	TM157		177	945	<100	4810	<100	904	
Benzo(g,h,i)perylene	<100 µg/kg	TM157		123	593	<100	2560	<100	562	
Chrysene	<100 µg/kg	TM157		152	787	<100	4160	<100	792	
Fluoranthene	<100 µg/kg	TM157		235	1400	<100	10200	<100	1640	
Fluorene	<100 µg/kg	TM157		<100	<100	<100	738	<100	<100	
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		142	713	<100	3150	<100	644	
Phenanthrene	<100 µg/kg	TM157		<100	497	<100	7300	<100	775	
Pyrene	<100 µg/kg	TM157		238	1340	<100	9070	<100	1540	
Naphthalene	<100 µg/kg	TM157		<100	115	<100	1020	<100	<100	
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	525	<100	<100	



SDG: 140611-59
 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 274380
 Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	CG HA 33	CG HA 36			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					
M	mCERTS accredited.		0.40 - 0.70	0.35 - 0.50			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		09/06/2014	09/06/2014			
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		11/06/2014	11/06/2014			
(F)	Trigger breach confirmed		140611-59	140611-59			
1-5	@	Sample deviation (see appendix)		9423371	9423372			
Component	LOD/Units		Method				
Phenol	<100 µg/kg	TM157	<100	<100			
Pentachlorophenol	<100 µg/kg	TM157	<100	<100			
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100			
Nitrobenzene	<100 µg/kg	TM157	<100	<100			
Isophorone	<100 µg/kg	TM157	<100	<100			
Hexachloroethane	<100 µg/kg	TM157	<100	<100			
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100			
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100			
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100			
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100			
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100			
Diethyl phthalate	<100 µg/kg	TM157	<100	<100			
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100			
Dibenzofuran	<100 µg/kg	TM157	<100	<100			
Carbazole	<100 µg/kg	TM157	<100	<100			
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100			
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100	<100			
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100			
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100			
Azobenzene	<100 µg/kg	TM157	<100	<100			
4-Nitrophenol	<100 µg/kg	TM157	<100	<100			
4-Nitroaniline	<100 µg/kg	TM157	<100	<100			
4-Methylphenol	<100 µg/kg	TM157	<100	<100			
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100			
4-Chloroaniline	<100 µg/kg	TM157	<100	<100			
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100			
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100			
3-Nitroaniline	<100 µg/kg	TM157	<100	<100			
2-Nitrophenol	<100 µg/kg	TM157	<100	<100			
2-Nitroaniline	<100 µg/kg	TM157	<100	<100			
2-Methylphenol	<100 µg/kg	TM157	<100	<100			
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100			



SDG: 140611-59
 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 274380
 Superseded Report:

Semi Volatile Organic Compounds

Results Legend			Customer Sample R		CG HA 33	CG HA 36			
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.70	0.35 - 0.50				
M	mCERTS accredited.			Soil/Solid	Soil/Solid				
aq	Aqueous / settled sample.			09/06/2014	09/06/2014				
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			11/06/2014	11/06/2014				
*	Subcontracted test.			140611-59	140611-59				
**	% 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			9423371	9423372				
(F)	Trigger breach confirmed								
1-5&	Sample deviation (see appendix)								
Component	LOD/Units	Method							
2-Chlorophenol	<100 µg/kg	TM157	<100	<100					
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100					
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100					
2,4-Dimethylphenol	<100 µg/kg	TM157	<100	<100					
2,4-Dichlorophenol	<100 µg/kg	TM157	<100	<100					
2,4,6-Trichlorophenol	<100 µg/kg	TM157	<100	<100					
2,4,5-Trichlorophenol	<100 µg/kg	TM157	<100	<100					
1,4-Dichlorobenzene	<100 µg/kg	TM157	<100	<100					
1,3-Dichlorobenzene	<100 µg/kg	TM157	<100	<100					
1,2-Dichlorobenzene	<100 µg/kg	TM157	<100	<100					
2-Chloronaphthalene	<100 µg/kg	TM157	<100	<100					
2-Methylnaphthalene	<100 µg/kg	TM157	<100	<100					
Acenaphthylene	<100 µg/kg	TM157	<100	<100					
Acenaphthene	<100 µg/kg	TM157	<100	<100					
Anthracene	<100 µg/kg	TM157	<100	<100					
Benzo(a)anthracene	<100 µg/kg	TM157	<100	846					
Benzo(b)fluoranthene	<100 µg/kg	TM157	<100	826					
Benzo(k)fluoranthene	<100 µg/kg	TM157	<100	734					
Benzo(a)pyrene	<100 µg/kg	TM157	<100	1010					
Benzo(g,h,i)perylene	<100 µg/kg	TM157	<100	589					
Chrysene	<100 µg/kg	TM157	<100	818					
Fluoranthene	<100 µg/kg	TM157	149	1390					
Fluorene	<100 µg/kg	TM157	<100	<100					
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157	<100	722					
Phenanthrene	<100 µg/kg	TM157	<100	394					
Pyrene	<100 µg/kg	TM157	138	1340					
Naphthalene	<100 µg/kg	TM157	<100	<100					
Dibenzo(a,h)anthracene	<100 µg/kg	TM157	<100	116					



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
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Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.45 - 0.55 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423356	0.50 - 0.60 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423357	35.00 - 0.55 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423358	0.45 - 0.55 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423359	0.45 - 0.55 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423360	0.45 - 0.55 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423363
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							
GRO Surrogate % recovery**	%	TM089	110	95	114	112	99	120
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44	113	<44	<44	<44	<44
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089	<2	<2	<2	<2	<2	<2
Ethylbenzene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<6	<6	<6
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	<3
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	15.1	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	44.1	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	11.3	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	532	<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	9230	2740	<100	<100	6430	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	2710	<100	<100	<100	13100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	12500	2740	<100	<100	19500	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	29	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	1470	982	2130	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	2180	650	<100	577	567	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	9510	6950	<100	<100	6800	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	7930	6680	3640	3030	19800	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	3280	2520	1600	1420	10300	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	19600	15800	4620	5740	27200	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	32100	18600	4620	5740	46700	<100



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
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Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32
M	mCERTS accredited.		0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50	0.35 - 0.45	0.40 - 0.50
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.		09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
tot.unfilt	Total / unfiltered sample.		11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
*	Subcontracted test.		140611-59	140611-59	140611-59	140611-59	140611-59	140611-59
**	% 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		9423364	9423365	9423366	9423368	9423369	9423370
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units		Method					
GRO Surrogate % recovery**	%	TM089	100	103	125	48	110	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44	459	<44	<44	<44	<44
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089	<2	<2	<2	<2	<2	<2
Ethylbenzene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<6	<6	<6
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<3	<3	<3
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	18.5	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	45.8	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	165	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	66.5	<10	12.1	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	828	510	2670	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	560	4140	<100	15100	<100	6370
Aliphatics >C21-C35	<100 µg/kg	TM173	11800	33500	<100	121000	<100	43700
Aliphatics >C35-C44	<100 µg/kg	TM173	4490	7610	2230	108000	<100	21700
Total Aliphatics >C12-C44	<100 µg/kg	TM173	16800	46100	2740	247000	<100	71800
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	113	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	44.7	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	2600	<100	6980	<100	393
Aromatics >EC16-EC21	<100 µg/kg	TM173	1110	24600	<100	69100	<100	7940
Aromatics >EC21-EC35	<100 µg/kg	TM173	8550	80700	<100	283000	<100	51800
Aromatics >EC35-EC44	<100 µg/kg	TM173	8170	26600	<100	200000	654	40400
Aromatics >EC40-EC44	<100 µg/kg	TM173	3580	9480	<100	94300	<100	18500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	17800	135000	<100	559000	654	100000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	34700	181000	2740	806000	657	172000



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
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Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	CG HA 33	CG HA 36			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					
M	mCERTS accredited.		0.40 - 0.70	0.35 - 0.50			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		09/06/2014	09/06/2014			
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		11/06/2014	11/06/2014			
(F)	Trigger breach confirmed		140611-59	140611-59			
1-58*\$@	Sample deviation (see appendix)		9423371	9423372			
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	130	76			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44	<44			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5			
Benzene	<10 µg/kg	TM089	<10	<10			
Toluene	<2 µg/kg	TM089	<2	<2			
Ethylbenzene	<3 µg/kg	TM089	<3	<3			
m,p-Xylene	<6 µg/kg	TM089	<6	<6			
o-Xylene	<3 µg/kg	TM089	<3	<3			
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10			
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10			
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10			
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10			
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100			
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	1360			
Aliphatics >C21-C35	<100 µg/kg	TM173	897	17400			
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	5620			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	897	24400			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10			
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10			
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100			
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	4750			
Aromatics >EC21-EC35	<100 µg/kg	TM173	1390	33600			
Aromatics >EC35-EC44	<100 µg/kg	TM173	473	16600			
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	6040			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1860	55000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2760	79400			



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

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Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19
#	ISO17025 accredited.		Depth (m)	Sample Type	0.45 - 0.55	0.50 - 0.60	35.00 - 0.55	0.45 - 0.55	0.45 - 0.55	0.45 - 0.55
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		Date Sampled	Date Sampled	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
diss.filt	Dissolved / filtered sample.		Sampled Time	Sampled Time	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
tot.unfilt	Total / unfiltered sample.		Date Received	Date Received	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
*	Subcontracted test.		SDG Ref	SDG Ref	140611-59	140611-59	140611-59	140611-59	140611-59	140611-59
**	% 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		Lab Sample No.(s)	Lab Sample No.(s)	9423356	9423357	9423358	9423359	9423360	9423363
(F)	Trigger breach confirmed		AGS Reference	AGS Reference						
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			116	111	111	112	112	112
Toluene-d8**	%	TM116			100	97.9	99.5	101	99.6	101
4-Bromofluorobenzene**	%	TM116			90.4	76.8	86.8	94.1	89.4	86.1
Dichlorodifluoromethane	<6 µg/kg	TM116			<6	<6	<6	<6	<6	<6
Chloromethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	<7
Vinyl Chloride	<6 µg/kg	TM116			<6	<6	<6	<6	<6	<6
Bromomethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Chloroethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Trichlorofluoromethane	<6 µg/kg	TM116			<6	<6	<6	<6	<6	<6
1,1-Dichloroethene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Carbon Disulphide	<7 µg/kg	TM116			<7	<7	<7	<7	<7	<7
Dichloromethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<8 µg/kg	TM116			<8	<8	<8	<8	<8	<8
cis-1,2-Dichloroethene	<6 µg/kg	TM116			<6	<6	<6	<6	<6	<6
2,2-Dichloropropane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Bromochloromethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Chloroform	<8 µg/kg	TM116			<8	<8	<8	<8	<8	<8
1,1,1-Trichloroethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	<7
1,1-Dichloropropene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Carbontetrachloride	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
1,2-Dichloroethane	<5 µg/kg	TM116			<5	<5	<5	<5	<5	<5
Benzene	<9 µg/kg	TM116			<9	<9	<9	<9	<9	<9
Trichloroethene	<9 µg/kg	TM116			<9	<9	<9	<9	<9	<9
1,2-Dichloropropane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Dibromomethane	<9 µg/kg	TM116			<9	<9	<9	<9	<9	<9
Bromodichloromethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	<7
cis-1,3-Dichloropropene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
Toluene	<7 µg/kg	TM116			<7	<7	<7	<7	<7	<7
trans-1,3-Dichloropropene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	<10



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19	
#	ISO17025 accredited. mCERTS accredited.								
M	Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.45 - 0.55	0.50 - 0.60	35.00 - 0.55	0.45 - 0.55	0.45 - 0.55	0.45 - 0.55	
aq	Dissolved / filtered sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
tot.unfilt	Total / unfiltered sample.		09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	
*	Subcontracted test.		11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	
**	% 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		140611-59	140611-59	140611-59	140611-59	140611-59	140611-59	
(F)	Trigger breach confirmed		9423356	9423357	9423358	9423359	9423360	9423363	
1-5–	Sample deviation (see appendix)								
Component	LOD/Units		Method						
1,3-Dichloropropane	<7 µg/kg		TM116	<7	<7	<7	<7	<7	<7
				M	M	M	M	M	M
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5	
			M	M	M	M	M	M	
Dibromochloromethane	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
1,2-Dibromoethane	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
Chlorobenzene	<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5	
			M	M	M	M	M	M	
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
Ethylbenzene	<4 µg/kg	TM116	<4	<4	<4	<4	<4	<4	
			M	M	M	M	M	M	
p/m-Xylene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			#	#	#	#	#	#	
o-Xylene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
Styrene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			#	#	#	#	#	#	
Bromoform	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
Isopropylbenzene	<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5	
			#	#	#	#	#	#	
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
1,2,3-Trichloropropane	<16 µg/kg	TM116	<16	<16	<16	<16	<16	<16	
			M	M	M	M	M	M	
Bromobenzene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
Propylbenzene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
2-Chlorotoluene	<9 µg/kg	TM116	<9	<9	<9	<9	<9	<9	
			M	M	M	M	M	M	
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8	<8	<8	<8	<8	<8	
			M	M	M	M	M	M	
4-Chlorotoluene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
tert-Butylbenzene	<14 µg/kg	TM116	<14	<14	<14	<14	<14	<14	
			M	M	M	M	M	M	
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9	<9	<9	<9	<9	<9	
			#	#	#	#	#	#	
sec-Butylbenzene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
4-Isopropyltoluene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
1,3-Dichlorobenzene	<8 µg/kg	TM116	<8	<8	<8	<8	<8	<8	
			M	M	M	M	M	M	
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5	<5	<5	<5	<5	<5	
			M	M	M	M	M	M	
n-Butylbenzene	<11 µg/kg	TM116	<11	<11	<11	<11	<11	<11	
1,2-Dichlorobenzene	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			M	M	M	M	M	M	
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14	<14	<14	<14	<14	<14	
			M	M	M	M	M	M	
Tert-amyl methyl ether	<10 µg/kg	TM116	<10	<10	<10	<10	<10	<10	
			#	#	#	#	#	#	
1,2,4-Trichlorobenzene	<20 µg/kg	TM116	<20	<20	<20	<20	<20	<20	
Hexachlorobutadiene	<20 µg/kg	TM116	<20	<20	<20	<20	<20	<20	
Naphthalene	<13 µg/kg	TM116	<13	<13	<13	<13	<13	<13	
			M	M	M	M	M	M	



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Table with columns for Results Legend, Customer Sample R, and VOC MS (S) components. Includes rows for 1,2,3-Trichlorobenzene and VOC TIC, with LOD/Units and Method columns.



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32
#	ISO17025 accredited.		Depth (m)	Sample Type	0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50	0.35 - 0.45	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		Date Sampled	Date Sampled	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
diss.filt	Dissolved / filtered sample.		Sampled Time	Sampled Time	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
tot.unfilt	Total / unfiltered sample.		Date Received	Date Received	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
*	Subcontracted test.		SDG Ref	SDG Ref	140611-59	140611-59	140611-59	140611-59	140611-59	140611-59
**	% 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		Lab Sample No.(s)	Lab Sample No.(s)	9423364	9423365	9423366	9423368	9423369	9423370
(F)	Trigger breach confirmed		AGS Reference	AGS Reference						
1-58*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116	111	109	113	117	102	105		
Toluene-d8**	%	TM116	97	102	102	93.6	100	96.5		
4-Bromofluorobenzene**	%	TM116	74.9	92	97.9	79.2	100	83.8		
Dichlorodifluoromethane	<6 µg/kg	TM116	<6	<60	<6	<60	<6	<6		
Chloromethane	<7 µg/kg	TM116	<7	<70	<7	<70	<7	<7		
Vinyl Chloride	<6 µg/kg	TM116	<6	<60	<6	<60	<6	<6		
Bromomethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Chloroethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<60	<6	<60	<6	<6		
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Carbon Disulphide	<7 µg/kg	TM116	<7	<70	<7	<70	<7	<7		
Dichloromethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
trans-1,2-Dichloroethene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<80	<8	<80	<8	<8		
cis-1,2-Dichloroethene	<6 µg/kg	TM116	<6	<60	<6	<60	<6	<6		
2,2-Dichloropropane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Bromochloromethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Chloroform	<8 µg/kg	TM116	<8	<80	<8	<80	<8	<8		
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<70	<7	<70	<7	<7		
1,1-Dichloropropene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Carbontetrachloride	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<50	<5	<50	<5	<5		
Benzene	<9 µg/kg	TM116	<9	<90	<9	<90	<9	<9		
Trichloroethene	<9 µg/kg	TM116	<9	<90	<9	<90	<9	<9		
1,2-Dichloropropane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Dibromomethane	<9 µg/kg	TM116	<9	<90	<9	<90	<9	<9		
Bromodichloromethane	<7 µg/kg	TM116	<7	<70	<7	<70	<7	<7		
cis-1,3-Dichloropropene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
Toluene	<7 µg/kg	TM116	<7	<70	<7	<70	<7	<7		
trans-1,3-Dichloropropene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10		



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	CG HA 20	CG HA 26	CG HA 27	CG HA 28	CG HA 31	CG HA 32	
#	ISO17025 accredited. mCERTS accredited.								
M	Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50	0.35 - 0.45	0.40 - 0.50	
aq	Dissolved / filtered sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
diss.filt	Total / unfiltered sample.		09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014	
tot.unfilt	Subcontracted test.		11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014	
*	% 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		140611-59	140611-59	140611-59	140611-59	140611-59	140611-59	
**	Trigger breach confirmed		9423364	9423365	9423366	9423368	9423369	9423370	
(F)	Sample deviation (see appendix)								
1-5&									
Component	LOD/Units		Method						
1,3-Dichloropropane	<7 µg/kg		TM116	<7	<70	<7	<70	<7	<7
			M	M	M	M	M	M	
Tetrachloroethene	<5 µg/kg	TM116	<5	<50	<5	<50	<5	<5	
			M	M	M	M	M	M	
Dibromochloromethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
1,2-Dibromoethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
Chlorobenzene	<5 µg/kg	TM116	<5	<50	<5	<50	<5	<5	
			M	M	M	M	M	M	
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
Ethylbenzene	<4 µg/kg	TM116	<4	<40	<4	<40	<4	<4	
			M	M	M	M	M	M	
p/m-Xylene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			#	#	#	#	#	#	
o-Xylene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
Styrene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			#	#	#	#	#	#	
Bromoform	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
Isopropylbenzene	<5 µg/kg	TM116	<5	<50	<5	<50	<5	<5	
			#	#	#	#	#	#	
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
1,2,3-Trichloropropane	<16 µg/kg	TM116	<16	<160	<16	<160	<16	<16	
			M	M	M	M	M	M	
Bromobenzene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
Propylbenzene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
2-Chlorotoluene	<9 µg/kg	TM116	<9	<90	<9	<90	<9	<9	
			M	M	M	M	M	M	
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8	<80	<8	<80	<8	<8	
			M	M	M	M	M	M	
4-Chlorotoluene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
tert-Butylbenzene	<14 µg/kg	TM116	<14	<140	<14	<140	<14	<14	
			M	M	M	M	M	M	
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9	<90	<9	<90	<9	<9	
			#	#	#	#	#	#	
sec-Butylbenzene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
4-Isopropyltoluene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
1,3-Dichlorobenzene	<8 µg/kg	TM116	<8	<80	<8	<80	<8	<8	
			M	M	M	M	M	M	
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5	<50	<5	<50	<5	<5	
			M	M	M	M	M	M	
n-Butylbenzene	<11 µg/kg	TM116	<11	<110	<11	<110	<11	<11	
1,2-Dichlorobenzene	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			M	M	M	M	M	M	
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14	<140	<14	<140	<14	<14	
			M	M	M	M	M	M	
Tert-amyl methyl ether	<10 µg/kg	TM116	<10	<100	<10	<100	<10	<10	
			#	#	#	#	#	#	
1,2,4-Trichlorobenzene	<20 µg/kg	TM116	<20	<200	<20	<200	<20	<20	
Hexachlorobutadiene	<20 µg/kg	TM116	<20	<200	<20	<200	<20	<20	
Naphthalene	<13 µg/kg	TM116	<13	<130	<13	<130	<13	<13	
			M	M	M	M	M	M	



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Table with columns for Results Legend, Customer Sample R, and VOC MS (S) components. Includes rows for 1,2,3-Trichlorobenzene and VOC TIC, with LOD/Units and Method columns.



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	CG HA 33	CG HA 36			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference					
M	mCERTS accredited.		0.40 - 0.70	0.35 - 0.50			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		09/06/2014	09/06/2014			
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		11/06/2014	11/06/2014			
(F)	Trigger breach confirmed		140611-59	140611-59			
1-5&*\$@	Sample deviation (see appendix)		9423371	9423372			
Component	LOD/Units		Method				
Dibromofluoromethane**	%	TM116	104	104			
Toluene-d8**	%	TM116	99.2	94			
4-Bromofluorobenzene**	%	TM116	95	89.9			
Dichlorodifluoromethane	<6 µg/kg	TM116	<6	<6			
Chloromethane	<7 µg/kg	TM116	<7	<7			
Vinyl Chloride	<6 µg/kg	TM116	<6	<6			
Bromomethane	<10 µg/kg	TM116	<10	<10			
Chloroethane	<10 µg/kg	TM116	<10	<10			
Trichlorofluoromethane	<6 µg/kg	TM116	<6	<6			
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10			
Carbon Disulphide	<7 µg/kg	TM116	<7	<7			
Dichloromethane	<10 µg/kg	TM116	<10	<10			
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<10	<10			
trans-1,2-Dichloroethene	<10 µg/kg	TM116	<10	<10			
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8			
cis-1,2-Dichloroethene	<6 µg/kg	TM116	<6	<6			
2,2-Dichloropropane	<10 µg/kg	TM116	<10	<10			
Bromochloromethane	<10 µg/kg	TM116	<10	<10			
Chloroform	<8 µg/kg	TM116	<8	<8			
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7			
1,1-Dichloropropene	<10 µg/kg	TM116	<10	<10			
Carbontetrachloride	<10 µg/kg	TM116	<10	<10			
1,2-Dichloroethane	<5 µg/kg	TM116	<5	<5			
Benzene	<9 µg/kg	TM116	<9	<9			
Trichloroethene	<9 µg/kg	TM116	<9	<9			
1,2-Dichloropropane	<10 µg/kg	TM116	<10	<10			
Dibromomethane	<9 µg/kg	TM116	<9	<9			
Bromodichloromethane	<7 µg/kg	TM116	<7	<7			
cis-1,3-Dichloropropene	<10 µg/kg	TM116	<10	<10			
Toluene	<7 µg/kg	TM116	<7	<7			
trans-1,3-Dichloropropene	<10 µg/kg	TM116	<10	<10			
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10			



SDG: 140611-59
 Job: H_RHASKON_PTB-82
 Client Reference: 9Y0074 103 100

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

Order Number:
 Report Number: 274380
 Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	CG HA 33	CG HA 36			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.70 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423371	0.35 - 0.50 Soil/Solid 09/06/2014 11/06/2014 140611-59 9423372			
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					
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7			
			M	M			
Tetrachloroethene	<5 µg/kg	TM116	<5	<5			
			M	M			
Dibromochloromethane	<10 µg/kg	TM116	<10	<10			
			M	M			
1,2-Dibromoethane	<10 µg/kg	TM116	<10	<10			
			M	M			
Chlorobenzene	<5 µg/kg	TM116	<5	<5			
			M	M			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<10			
			M	M			
Ethylbenzene	<4 µg/kg	TM116	<4	<4			
			M	M			
p/m-Xylene	<10 µg/kg	TM116	<10	<10			
			#	#			
o-Xylene	<10 µg/kg	TM116	<10	<10			
			M	M			
Styrene	<10 µg/kg	TM116	<10	<10			
			#	#			
Bromoform	<10 µg/kg	TM116	<10	<10			
			M	M			
Isopropylbenzene	<5 µg/kg	TM116	<5	<5			
			#	#			
1,1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10	<10			
			M	M			
1,2,3-Trichloropropane	<16 µg/kg	TM116	<16	<16			
			M	M			
Bromobenzene	<10 µg/kg	TM116	<10	<10			
			M	M			
Propylbenzene	<10 µg/kg	TM116	<10	<10			
			M	M			
2-Chlorotoluene	<9 µg/kg	TM116	<9	<9			
			M	M			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8	<8			
			M	M			
4-Chlorotoluene	<10 µg/kg	TM116	<10	<10			
			M	M			
tert-Butylbenzene	<14 µg/kg	TM116	<14	<14			
			M	M			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9	<9			
			#	#			
sec-Butylbenzene	<10 µg/kg	TM116	<10	<10			
			M	M			
4-Isopropyltoluene	<10 µg/kg	TM116	<10	<10			
			M	M			
1,3-Dichlorobenzene	<8 µg/kg	TM116	<8	<8			
			M	M			
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5	<5			
			M	M			
n-Butylbenzene	<11 µg/kg	TM116	<11	<11			
1,2-Dichlorobenzene	<10 µg/kg	TM116	<10	<10			
			M	M			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14	<14			
			M	M			
Tert-amyl methyl ether	<10 µg/kg	TM116	<10	<10			
			#	#			
1,2,4-Trichlorobenzene	<20 µg/kg	TM116	<20	<20			
Hexachlorobutadiene	<20 µg/kg	TM116	<20	<20			
Naphthalene	<13 µg/kg	TM116	<13	<13			
			M	M			



SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

VOC MS (S)

Table with columns: Results Legend, Customer Sample R, CG HA 33, CG HA 36, Component, LOD/Units, Method. Includes rows for 1,2,3-Trichlorobenzene and VOC TIC.



SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 06 0.45 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423356 TM048	19/06/14	Martin Cotterell	Soil containing loose fibres and ACM debris	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 08 0.50 - 0.60 SOLID 09/06/2014 00:00:00 140611-59 9423357 TM048	19/06/14	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 11 35.00 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423358 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 14 0.45 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423359 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 15 0.45 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423360 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 19 0.45 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423363 TM048	19/06/14	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 20 0.30 - 0.40 SOLID 09/06/2014 00:00:00 140611-59 9423364 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 26 0.35 - 0.50 SOLID 09/06/2014 00:00:00 140611-59 9423365 TM048	18/06/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 27 0.40 - 0.55 SOLID 09/06/2014 00:00:00 140611-59 9423366 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 28 0.30 - 0.50 SOLID 09/06/2014 00:00:00 140611-59 9423368 TM048	19/06/14	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 31 0.35 - 0.45 SOLID 09/06/2014 00:00:00 140611-59 9423369 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 32 0.40 - 0.50 SOLID 09/06/2014 00:00:00 140611-59 9423370 TM048	19/06/14	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 33 0.40 - 0.70 SOLID 09/06/2014 00:00:00 140611-59 9423371 TM048	19/06/14	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	CG HA 36 0.35 - 0.50 SOLID 09/06/2014 00:00:00 140611-59 9423372 TM048	18/06/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC		
TM073	MEWAM BOOK 60 1980,95 1985, HMSO / Modified: US EPA Method 8081A & 8141A	Determination of organochlorine and organophosphorous pesticides by GCMS		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser		
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM222	In-House Method	Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer		

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



SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	9423356	9423357	9423358	9423359	9423360	9423363	9423364	9423365	9423366	9423368
	CG HA 06	CG HA 08	CG HA 11	CG HA 14	CG HA 15	CG HA 19	CG HA 20	CG HA 26	CG HA 27	CG HA 28
AGS Ref.										
Depth	0.45 - 0.55	0.50 - 0.60	35.00 - 0.55	0.45 - 0.55	0.45 - 0.55	0.45 - 0.55	0.30 - 0.40	0.35 - 0.50	0.40 - 0.55	0.30 - 0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014
Boron Water Soluble	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014
Cyanide Comp/Free/Total/Thiocyanate			16-Jun-2014			16-Jun-2014			16-Jun-2014	16-Jun-2014
EPH CWG (Aliphatic) GC (S)	23-Jun-2014	23-Jun-2014	23-Jun-2014	23-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014
EPH CWG (Aromatic) GC (S)	23-Jun-2014	23-Jun-2014	23-Jun-2014	23-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014
GRO by GC-FID (S)	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	21-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	21-Jun-2014
Hexavalent Chromium (s)			19-Jun-2014			19-Jun-2014			19-Jun-2014	19-Jun-2014
Metals in solid samples by OES	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014	18-Jun-2014
OC, OP Pesticides and Triazine Herb			23-Jun-2014			23-Jun-2014			23-Jun-2014	23-Jun-2014
PCBs by GCMS			18-Jun-2014			18-Jun-2014			18-Jun-2014	18-Jun-2014
pH		18-Jun-2014	18-Jun-2014		18-Jun-2014	18-Jun-2014			18-Jun-2014	18-Jun-2014
Phenols by HPLC (S)	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014
Sample description	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014
Semi Volatile Organic Compounds	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014
Total Organic Carbon		17-Jun-2014	17-Jun-2014		17-Jun-2014	17-Jun-2014			18-Jun-2014	18-Jun-2014
TPH CWG GC (S)	23-Jun-2014	23-Jun-2014	23-Jun-2014	23-Jun-2014	21-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	21-Jun-2014
VOC MS (S)	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014

Lab Sample No(s) Customer Sample Ref.	9423369	9423370	9423371	9423372
	CG HA 31	CG HA 32	CG HA 33	CG HA 36
AGS Ref.				
Depth	0.35 - 0.45	0.40 - 0.50	0.40 - 0.70	0.35 - 0.50
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	19-Jun-2014	19-Jun-2014	19-Jun-2014	19-Jun-2014
Boron Water Soluble	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014
Cyanide Comp/Free/Total/Thiocyanate				16-Jun-2014
EPH CWG (Aliphatic) GC (S)	20-Jun-2014	19-Jun-2014	20-Jun-2014	19-Jun-2014
EPH CWG (Aromatic) GC (S)	20-Jun-2014	19-Jun-2014	20-Jun-2014	19-Jun-2014
GRO by GC-FID (S)	20-Jun-2014	20-Jun-2014	21-Jun-2014	20-Jun-2014
Hexavalent Chromium (s)				19-Jun-2014
Metals in solid samples by OES	17-Jun-2014	17-Jun-2014	17-Jun-2014	17-Jun-2014
OC, OP Pesticides and Triazine Herb				23-Jun-2014
PCBs by GCMS				18-Jun-2014
pH				18-Jun-2014
Phenols by HPLC (S)	16-Jun-2014	16-Jun-2014	16-Jun-2014	16-Jun-2014
Sample description	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014
Semi Volatile Organic Compounds	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014
Total Organic Carbon				18-Jun-2014
TPH CWG GC (S)	20-Jun-2014	20-Jun-2014	21-Jun-2014	20-Jun-2014
VOC MS (S)	20-Jun-2014	20-Jun-2014	20-Jun-2014	20-Jun-2014



SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

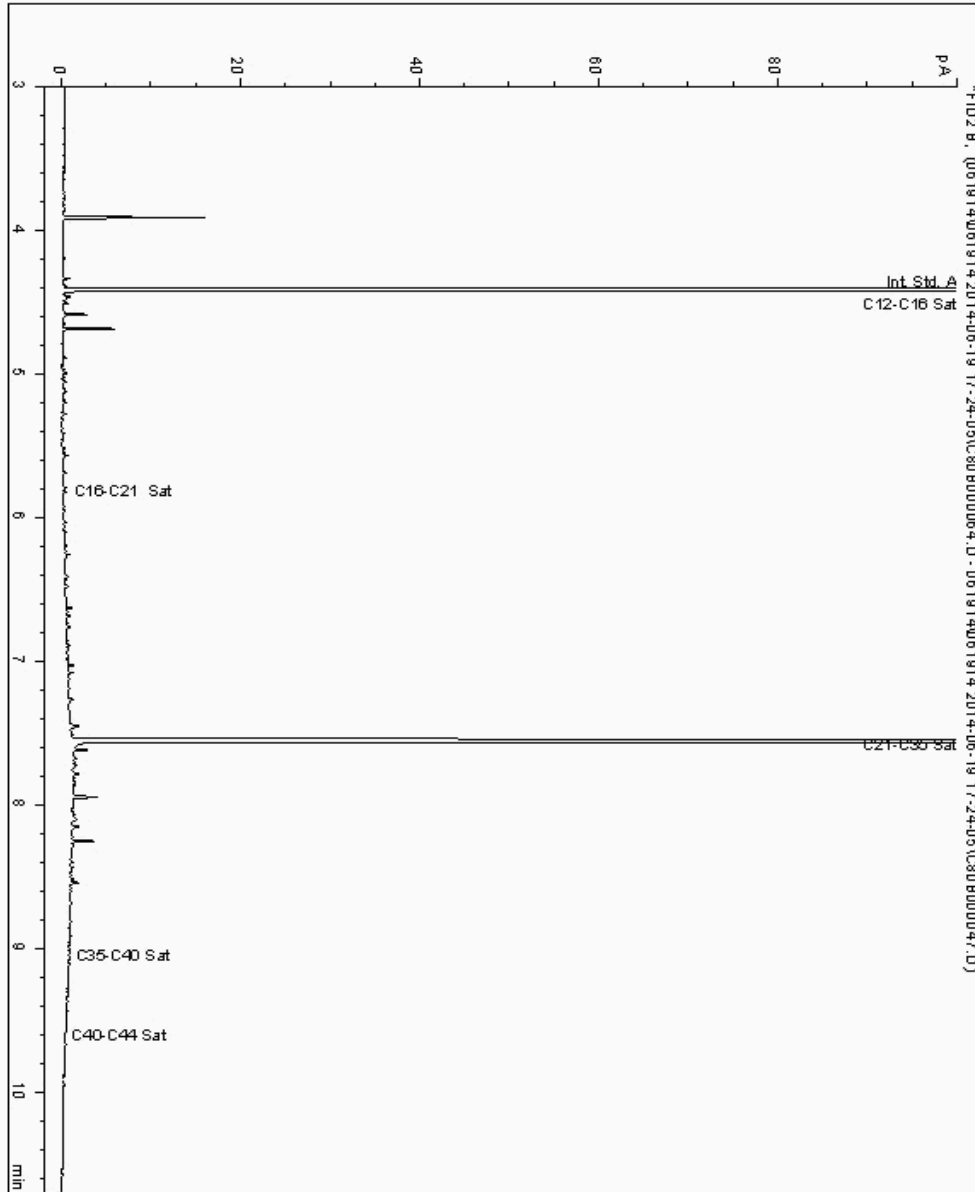
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9431515
Sample ID : CG HA 06

Depth : 0.45 - 0.55

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

Sample Identity: 8949275-9431515
Date Acquired : 20/06/14 10:46:46
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

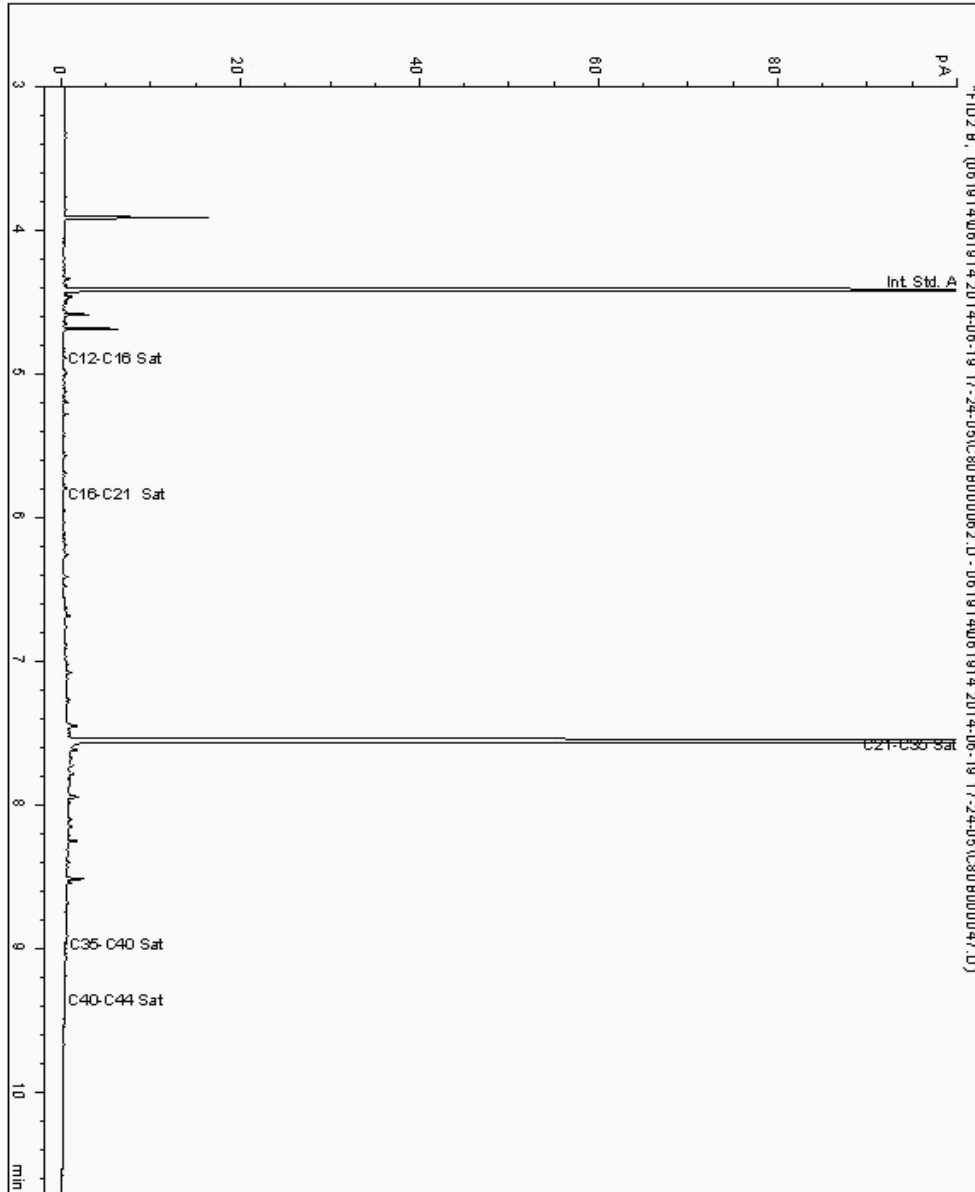
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9431605
Sample ID : CG HA 08

Depth : 0.50 - 0.60

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

Sample Identity: 8949292-9431605
Date Acquired : 20/06/14 10:05:51
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

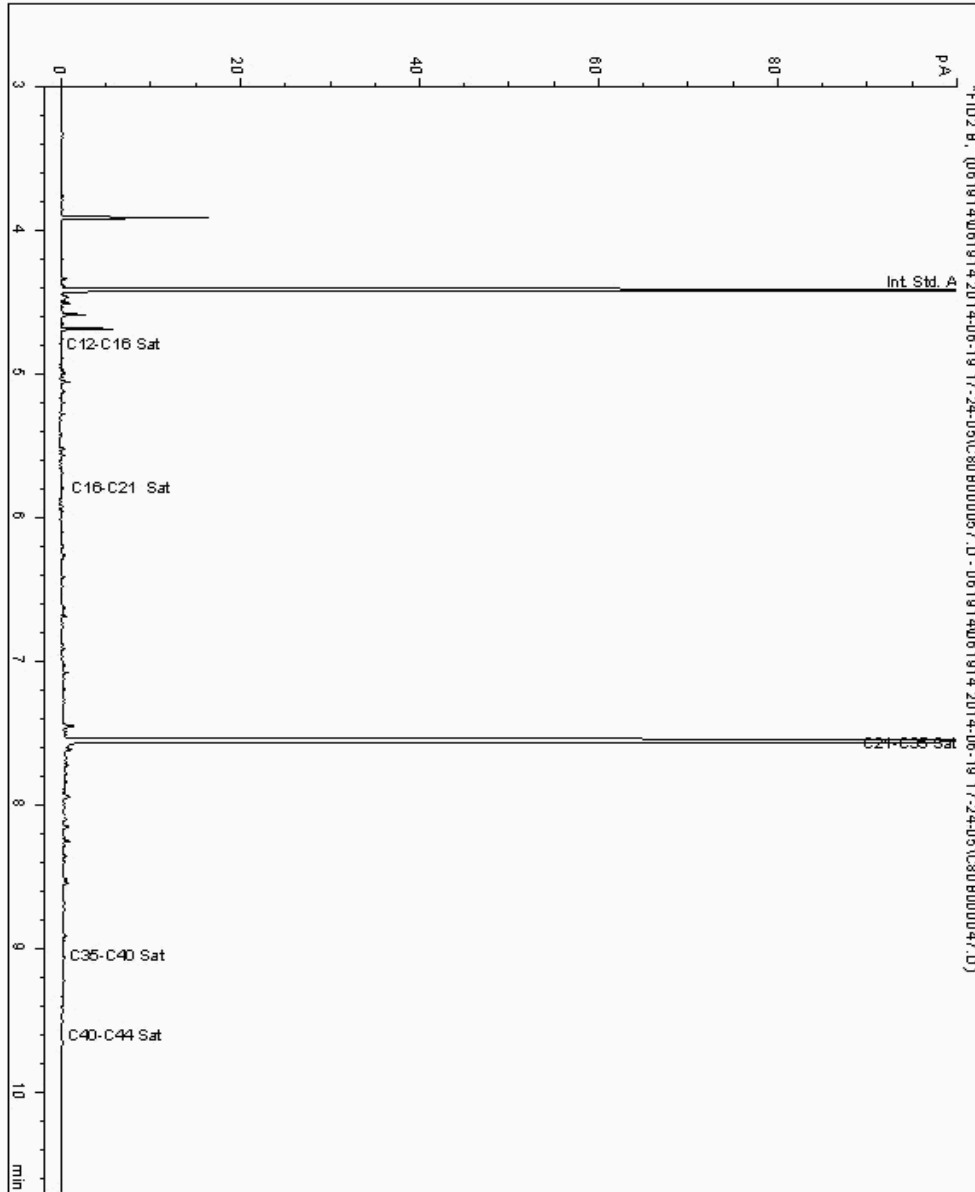
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9431687
Sample ID : CG HA 11

Depth : 35.00 - 0.55

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

Sample Identity: 8949312-9431687
Date Acquired : 20/06/14 08:23:48
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

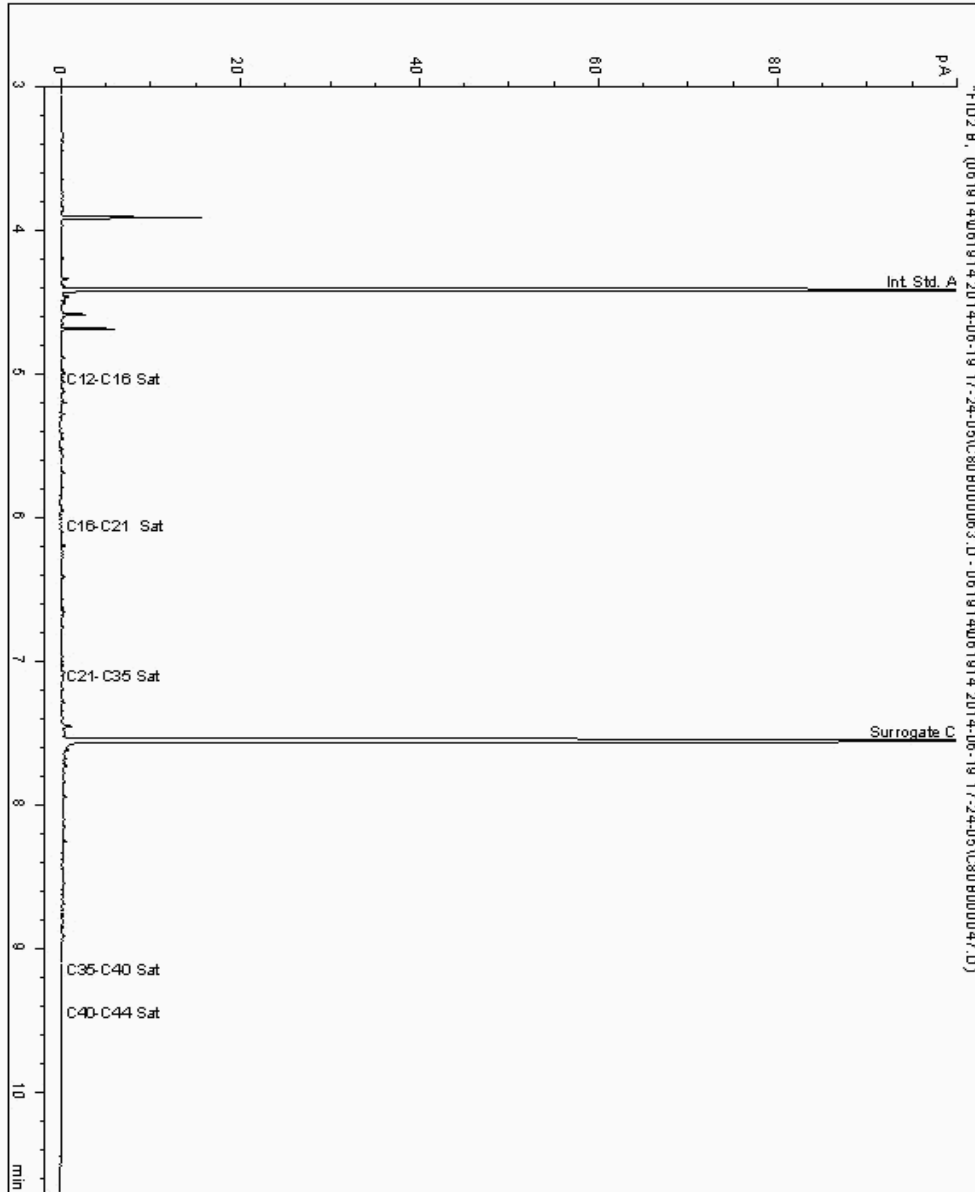
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9431838
Sample ID : CG HA 14

Depth : 0.45 - 0.55

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

Sample Identity: 8949330-9431838
Date Acquired : 20/06/14 10:26:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

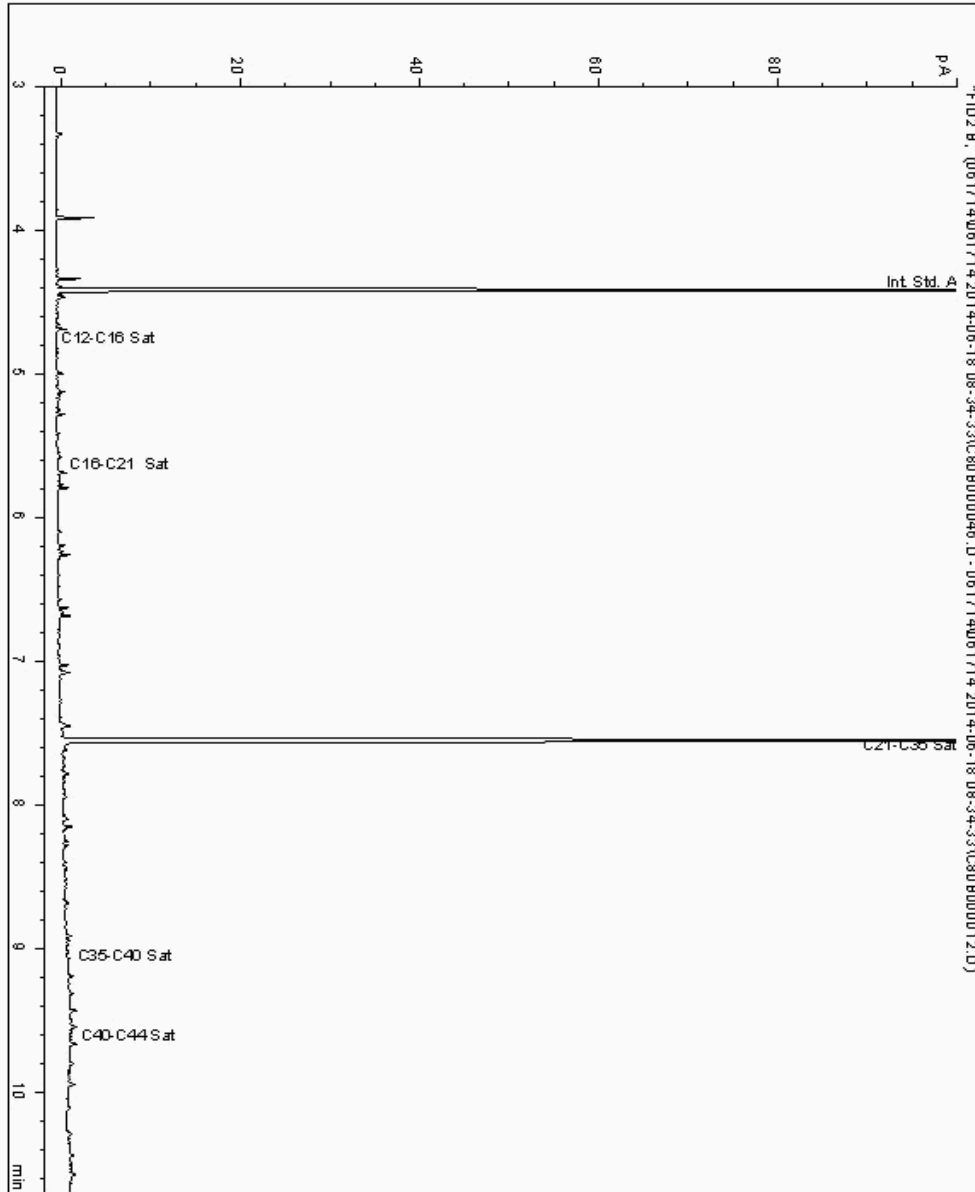
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9432643
Sample ID : CG HA 15

Depth : 0.45 - 0.55

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

Sample Identity: 8949350-9432643
Date Acquired : 18/06/14 21:47:38
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

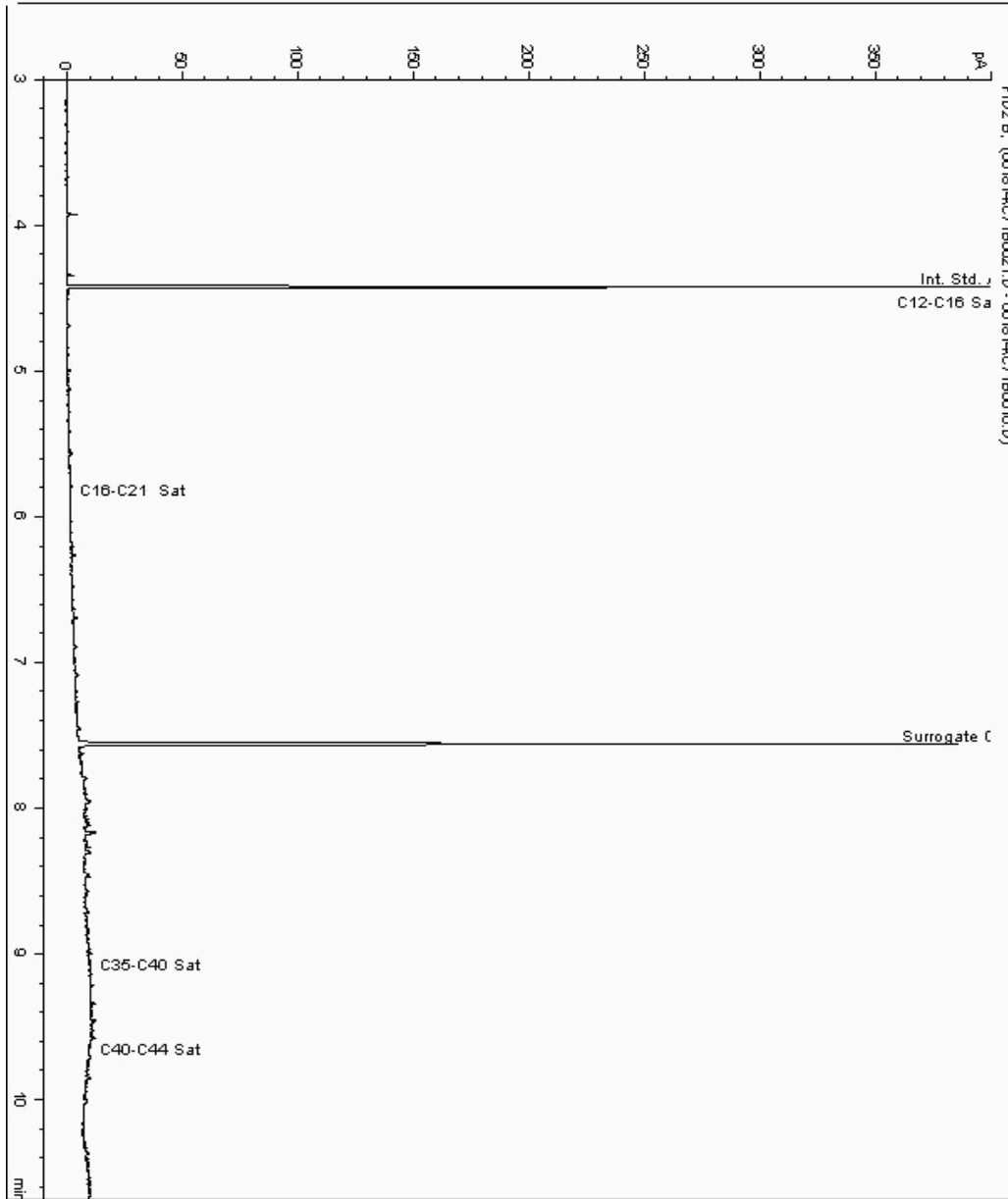
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9432760
Sample ID : CG HA 28

Depth : 0.30 - 0.50

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

Sample Identity: 8949508-9432760
Date Acquired : 18/06/2014 20:56:45 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

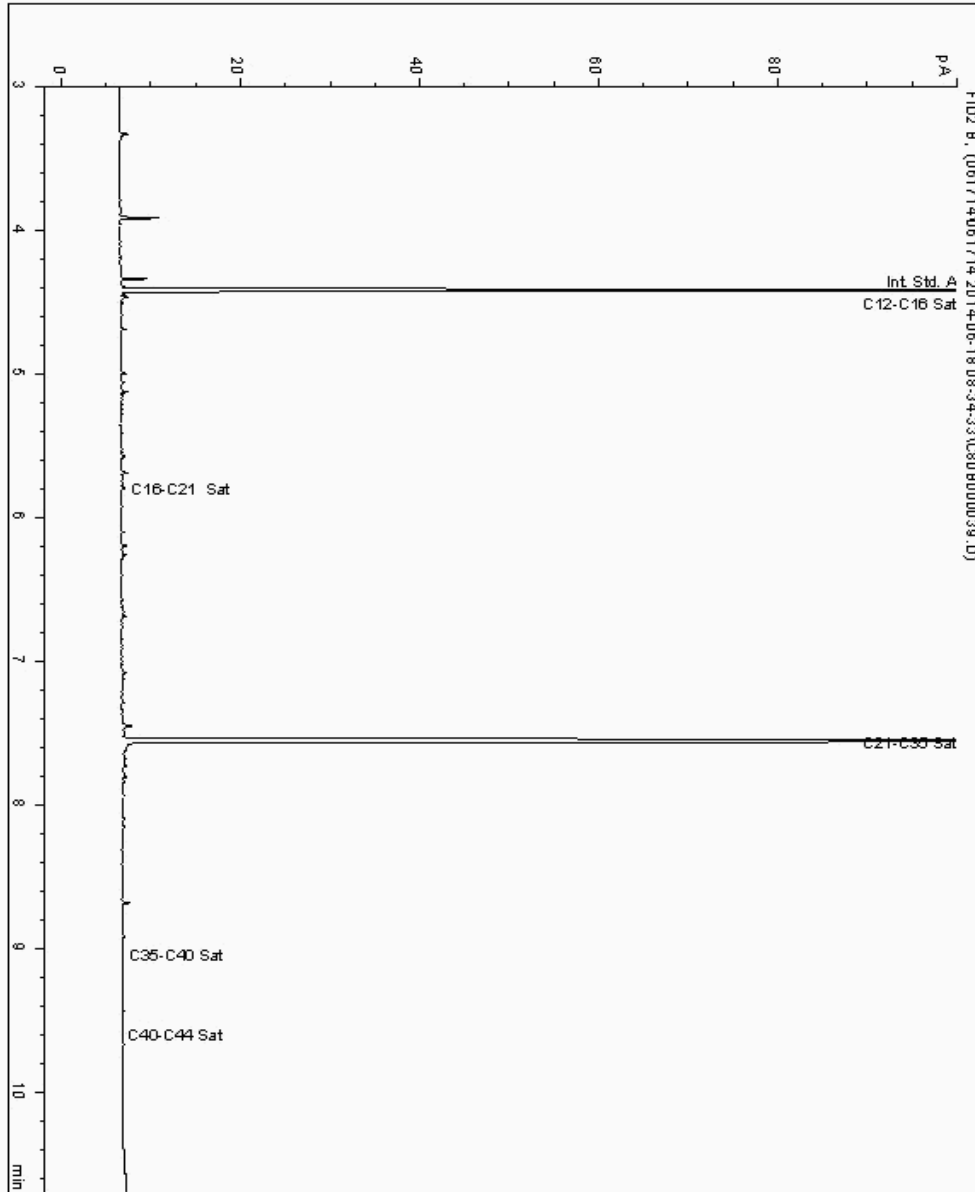
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9432842
Sample ID : CG HA 27

Depth : 0.40 - 0.55

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

Sample Identity: 8949461-9432842
Date Acquired : 18/06/14 19:47:54
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

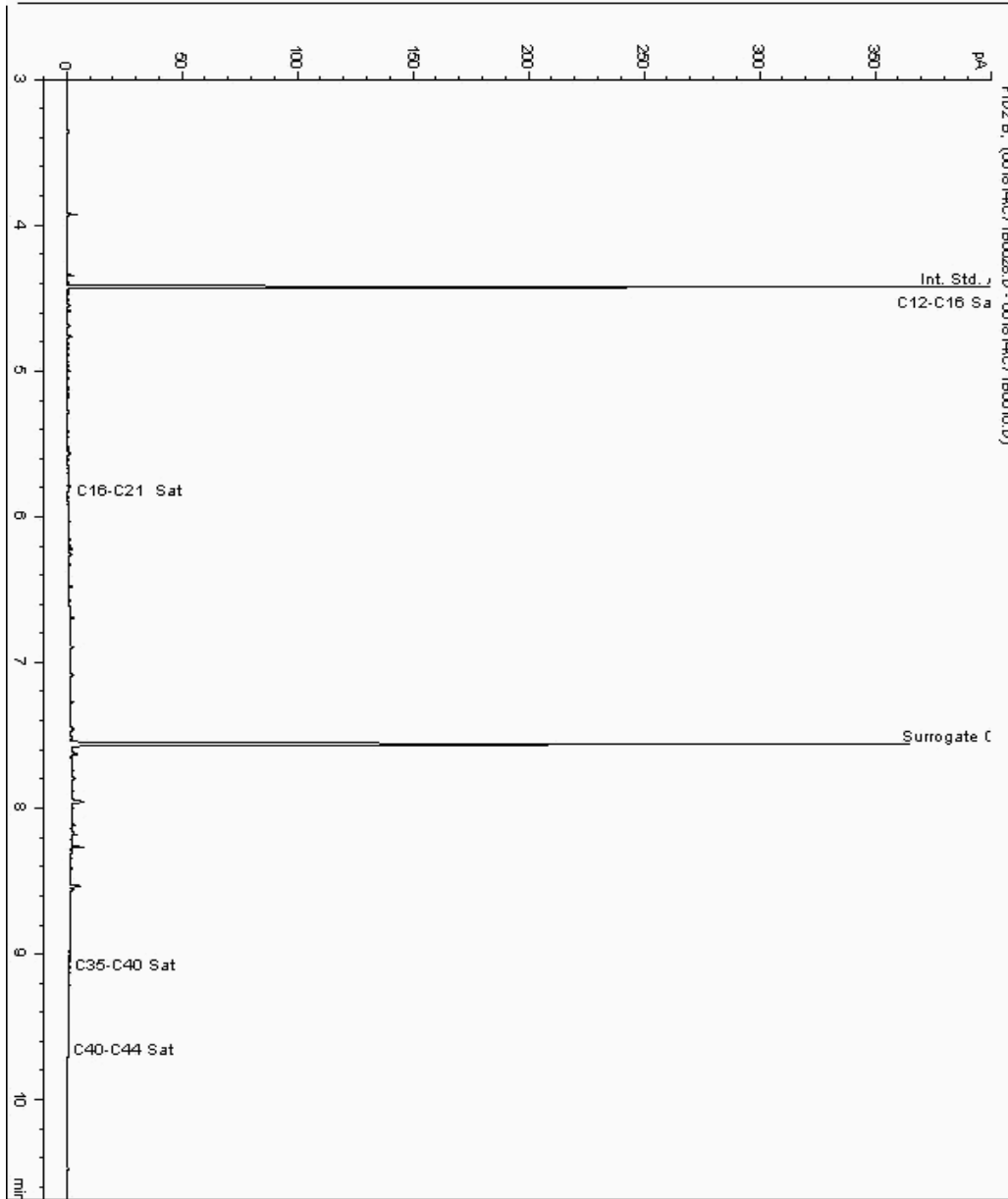
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433015
Sample ID : CG HA 26

Depth : 0.35 - 0.50

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

Sample Identity: 8949424-9433015
Date Acquired : 18/06/2014 22:50:04 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

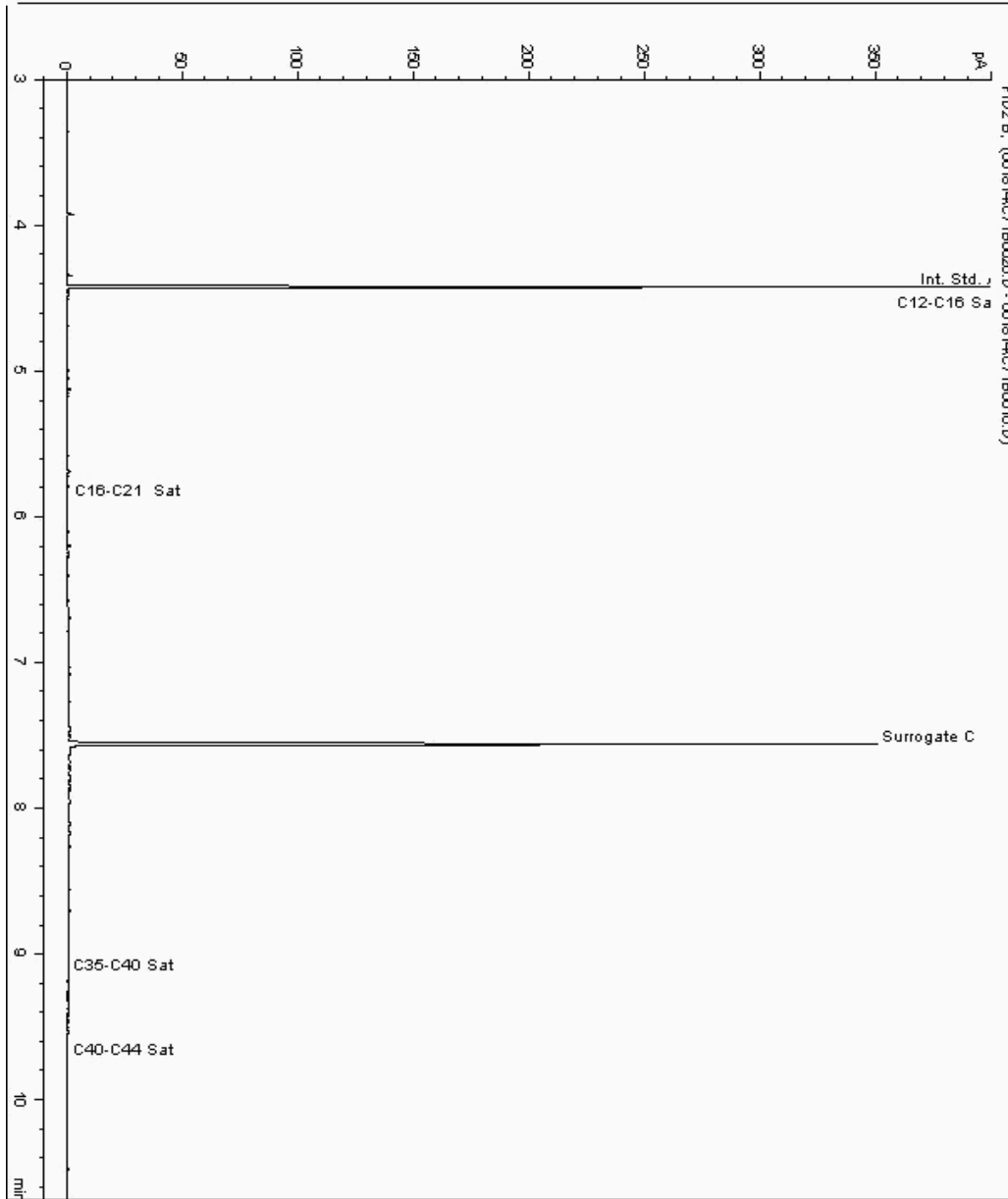
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433090
Sample ID : CG HA 20

Depth : 0.30 - 0.40

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

Sample Identity: 8949398-9433090
Date Acquired : 18/06/2014 22:08:28 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

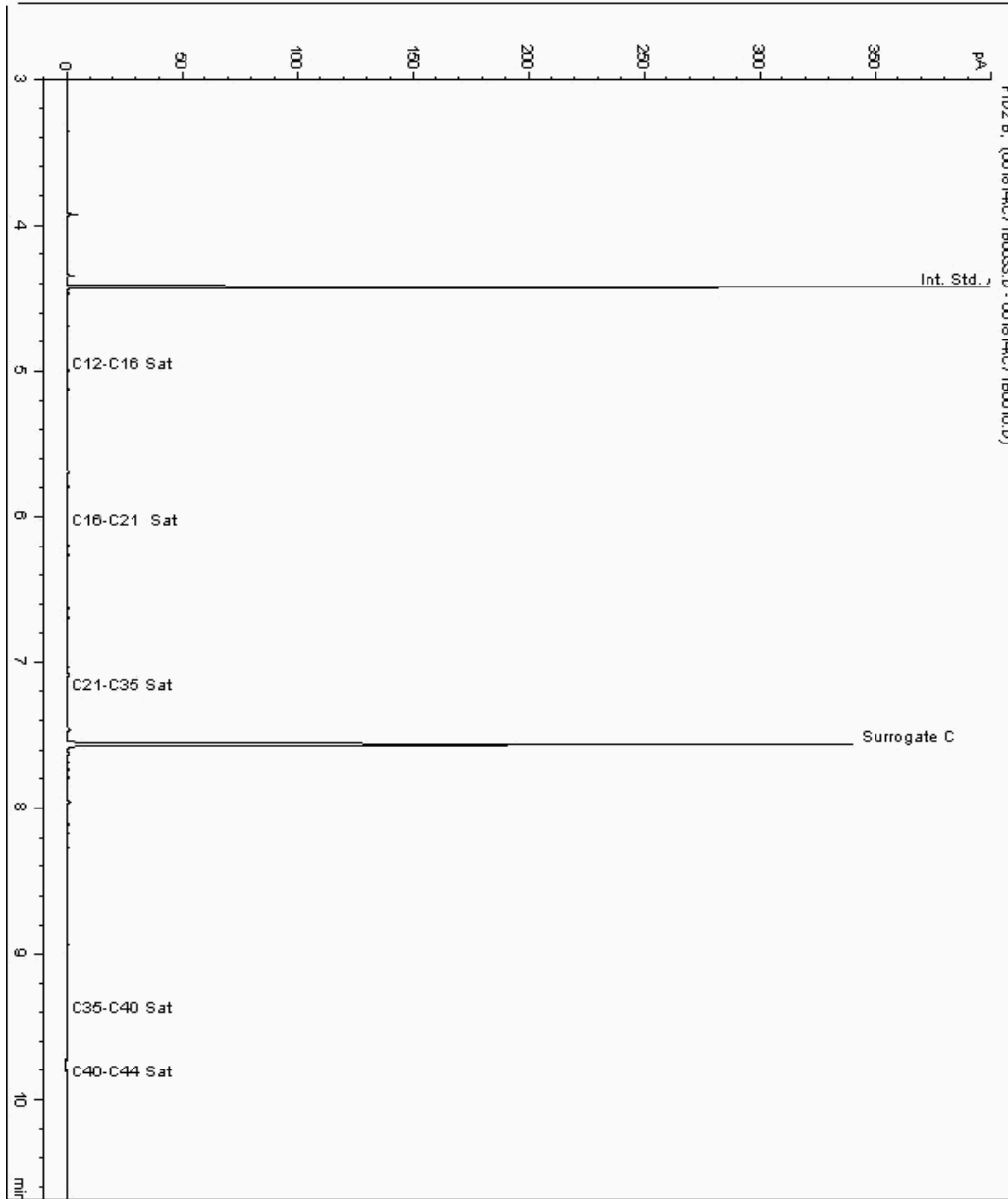
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433189
Sample ID : CG HA 19

Depth : 0.45 - 0.55

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

Sample Identity: 8949373-9433189
Date Acquired : 19/06/2014 00:13:06 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

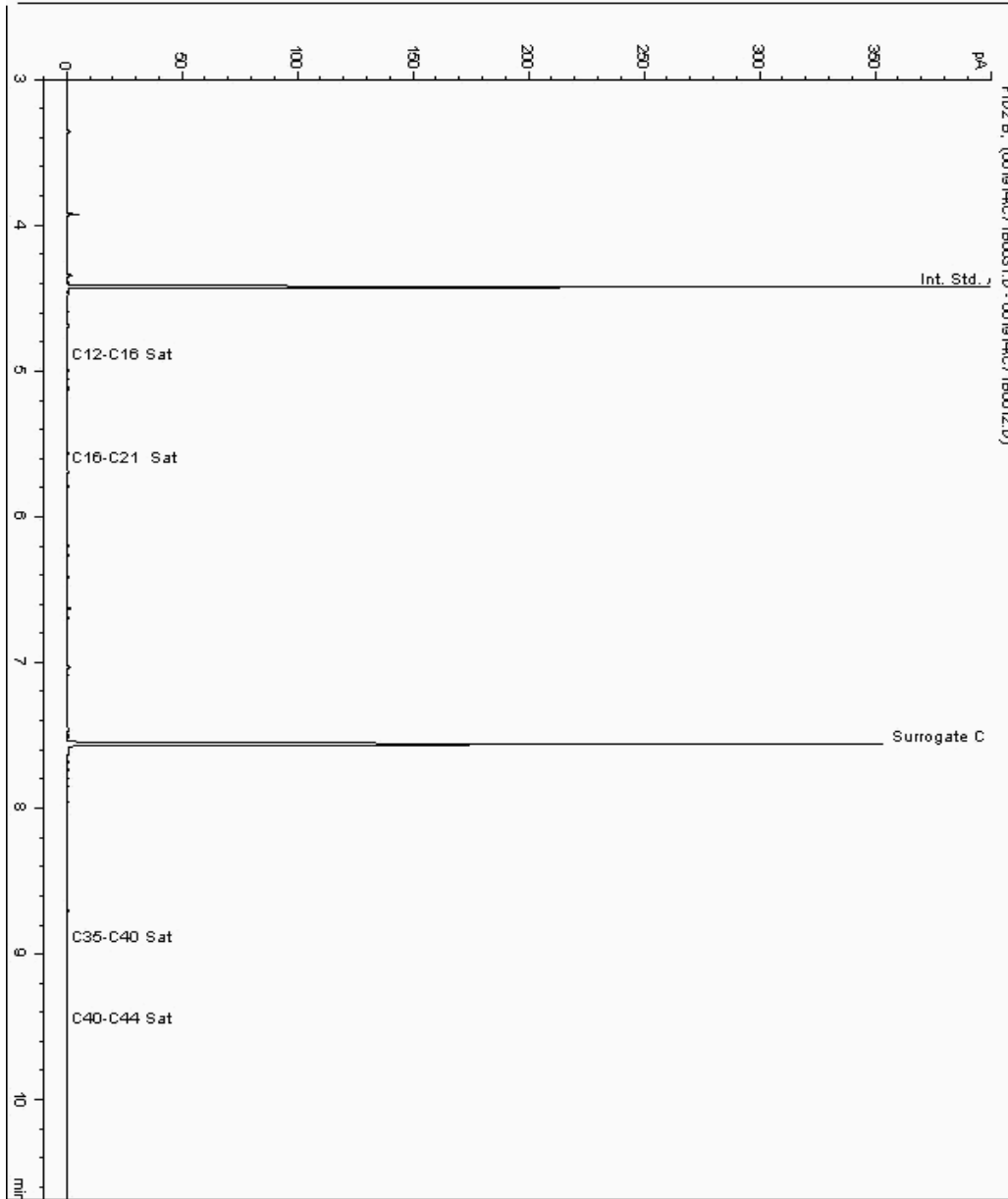
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433381
Sample ID : CG HA 31

Depth : 0.35 - 0.45

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

Sample Identity: 8949546-9433381
Date Acquired : 20/06/2014 02:30:09 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

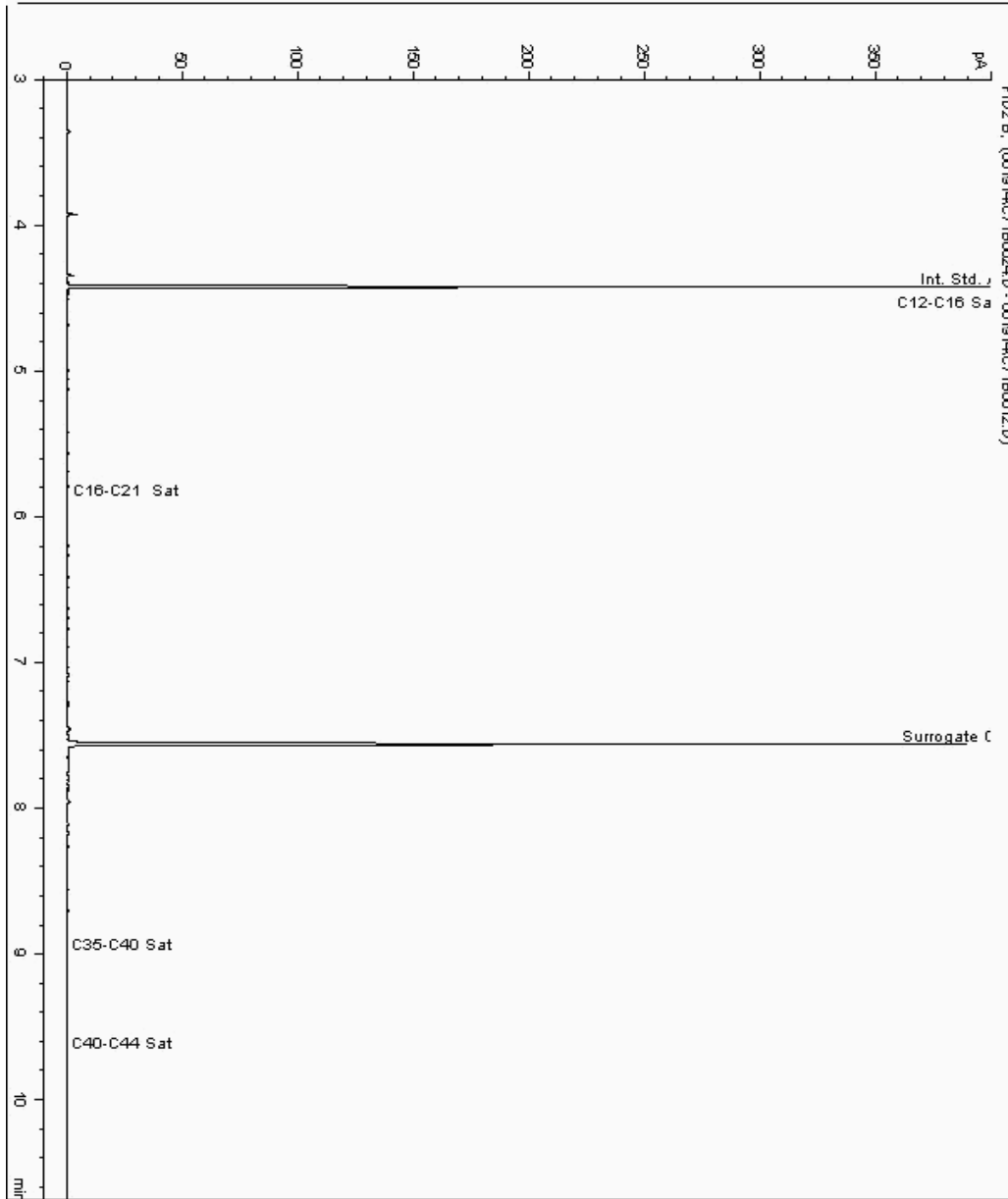
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433438
Sample ID : CG HA 33

Depth : 0.40 - 0.70

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

Sample Identity: 8949588-9433438
Date Acquired : 20/06/2014 00:14:22 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

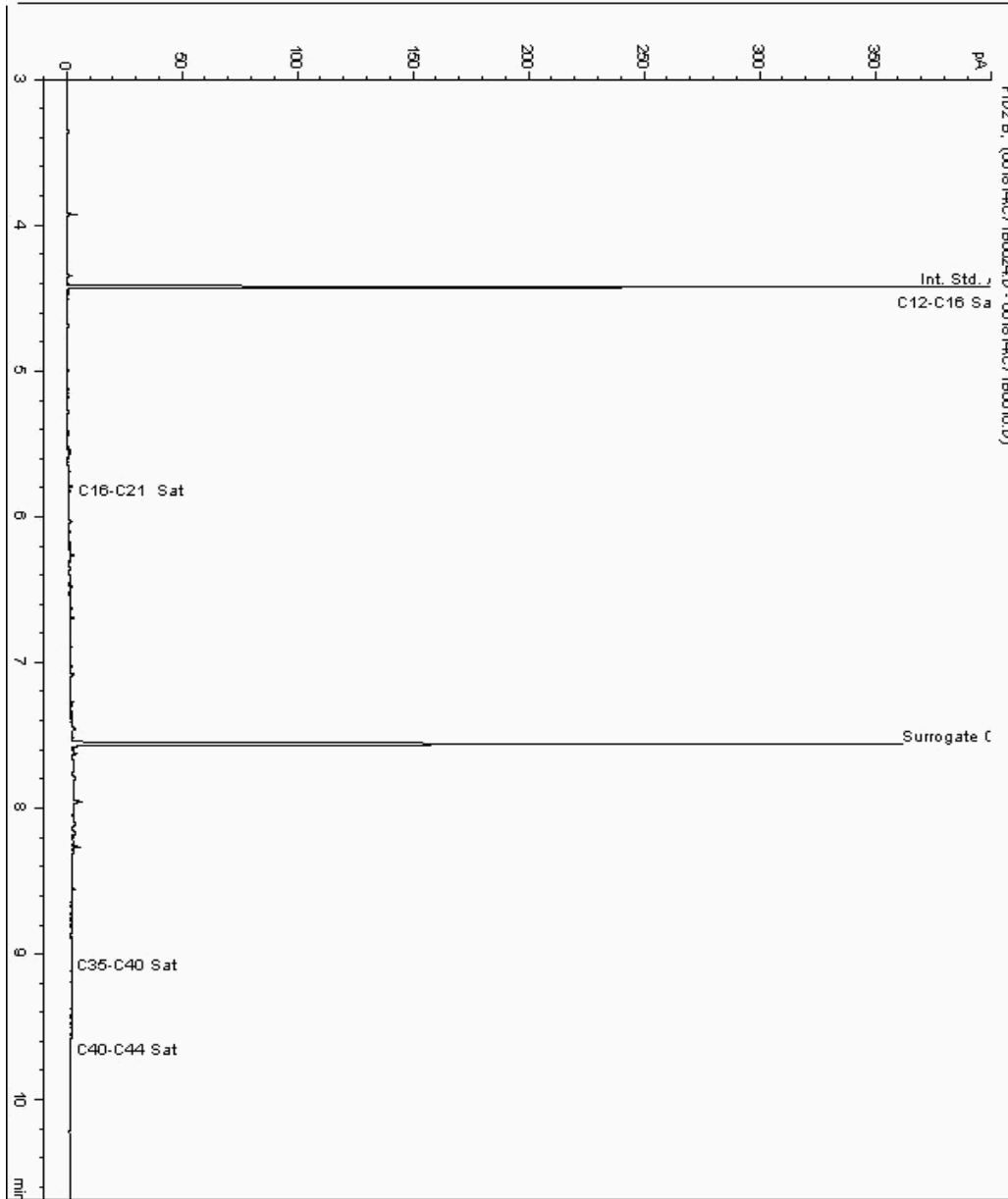
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433580
Sample ID : CG HA 32

Depth : 0.40 - 0.50

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

Sample Identity: 8949571-9433580
Date Acquired : 18/06/2014 21:37:39 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

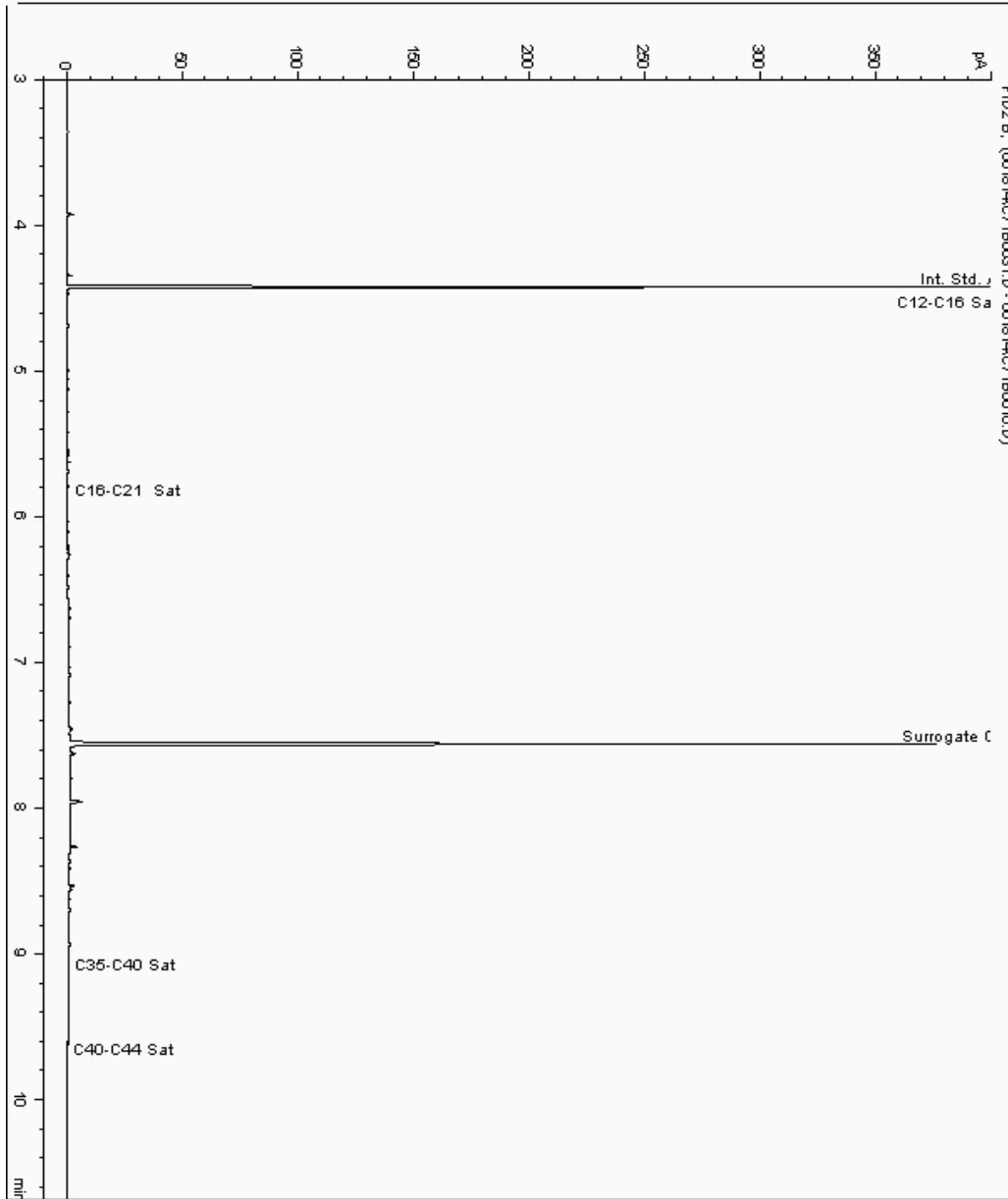
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9433666
Sample ID : CG HA 36

Depth : 0.35 - 0.50

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

Sample Identity: 8949625-9433666
Date Acquired : 18/06/2014 23:41:51 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

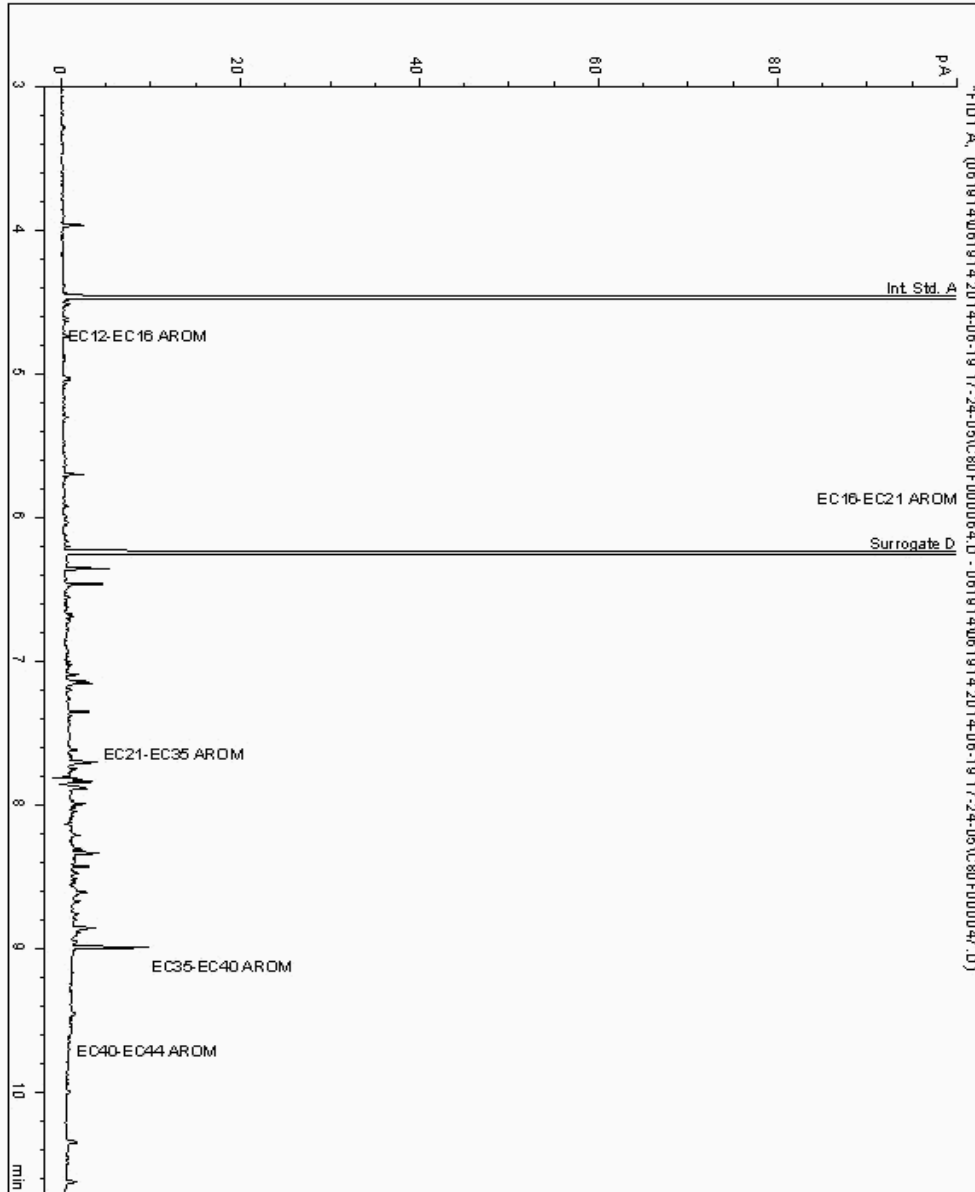
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9431515
Sample ID : CG HA 06

Depth : 0.45 - 0.55

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

Sample Identity: 8949276-9431515
Date Acquired : 20/06/14 10:46:46
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

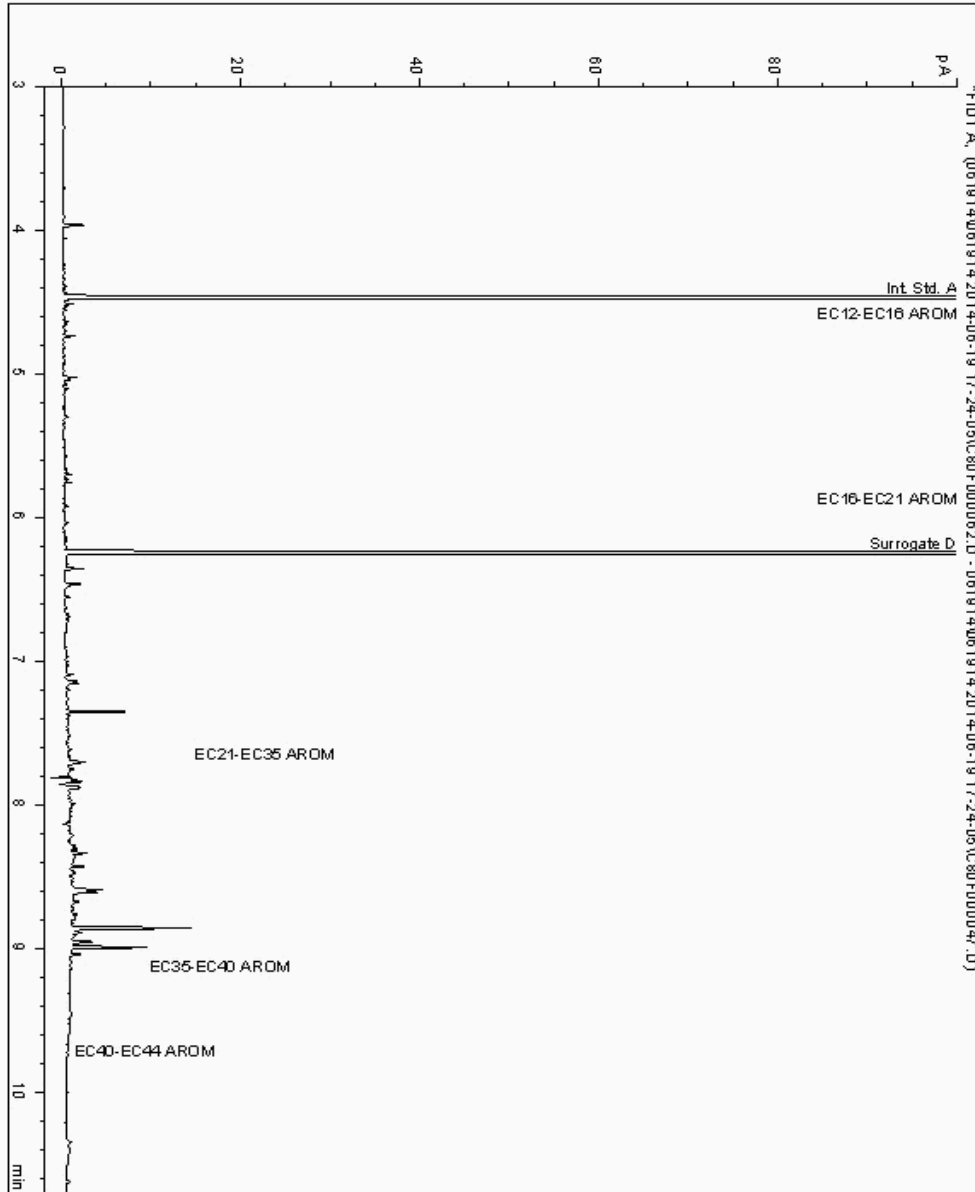
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9431605
Sample ID : CG HA 08

Depth : 0.50 - 0.60

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

Sample Identity: 8949293-9431605
Date Acquired : 20/06/14 10:05:51
Units : ppb
Dilution :
CF : 1
Multiplier : 1.010





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

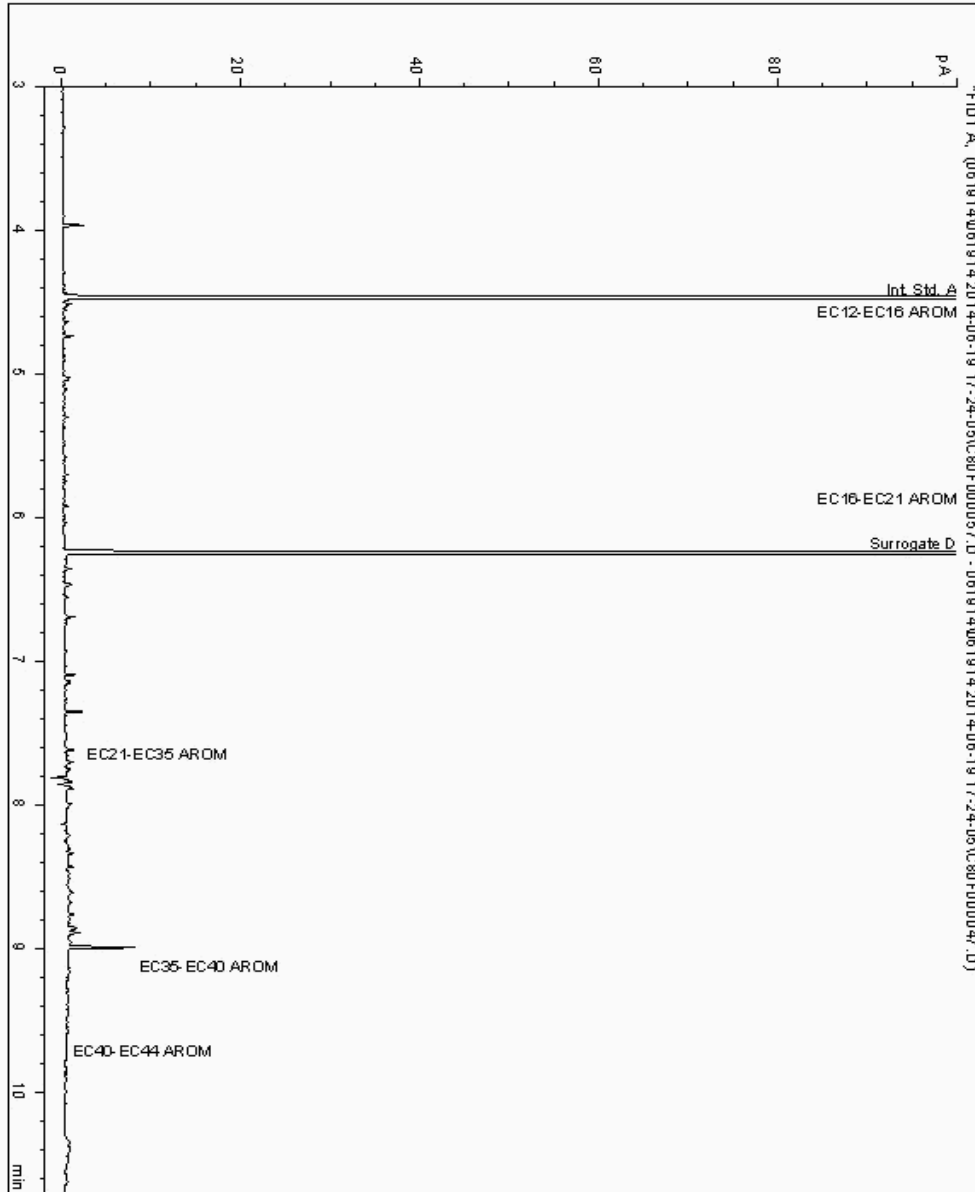
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9431687
Sample ID : CG HA 11

Depth : 35.00 - 0.55

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

Sample Identity: 8949313-9431687
Date Acquired : 20/06/14 08:23:48
Units : ppb
Dilution :
CF : 1
Multiplier : 0.980





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

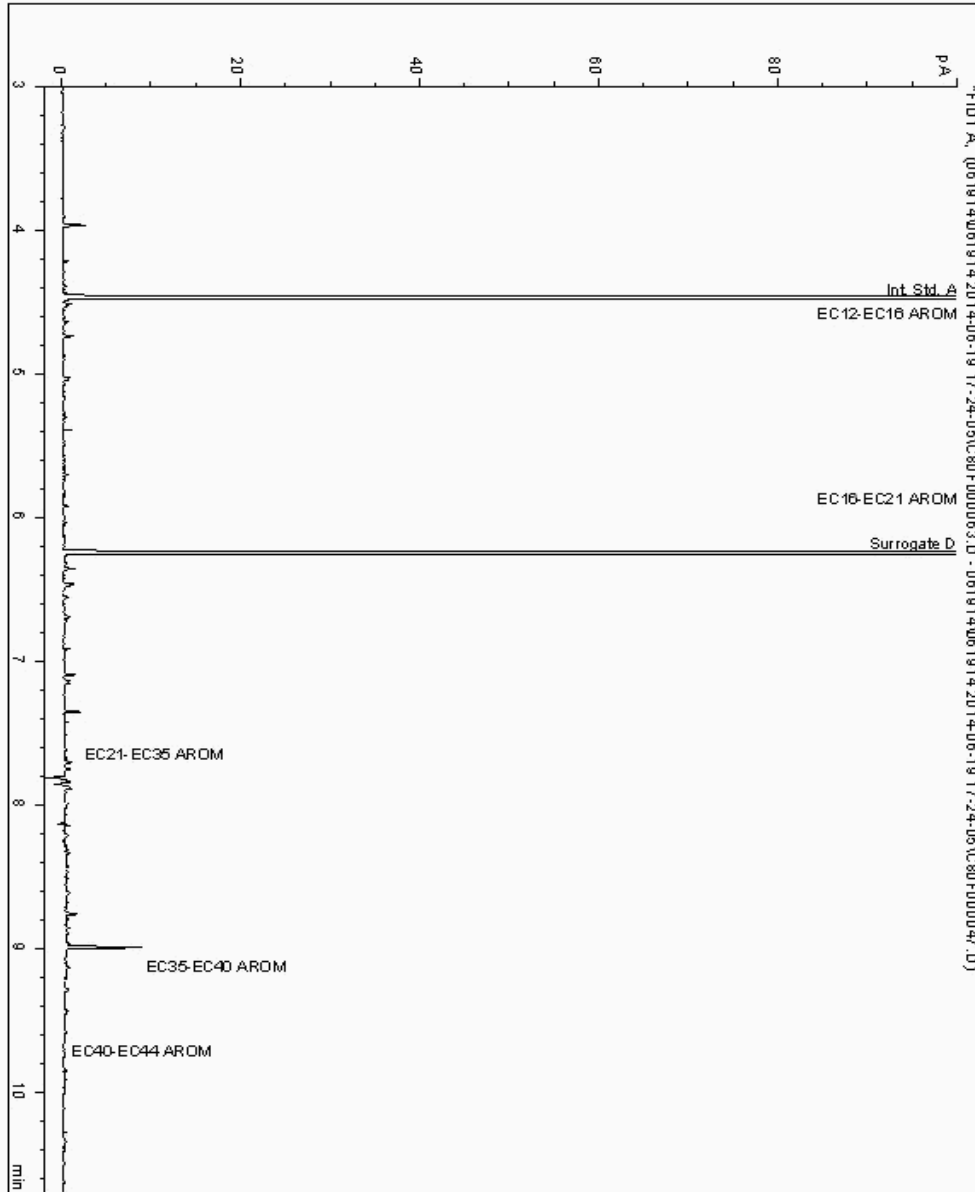
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9431838
Sample ID : CG HA 14

Depth : 0.45 - 0.55

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

Sample Identity: 8949331-9431838
Date Acquired : 20/06/14 10:26:15
Units : ppb
Dilution :
CF : 1
Multiplier : 0.960





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

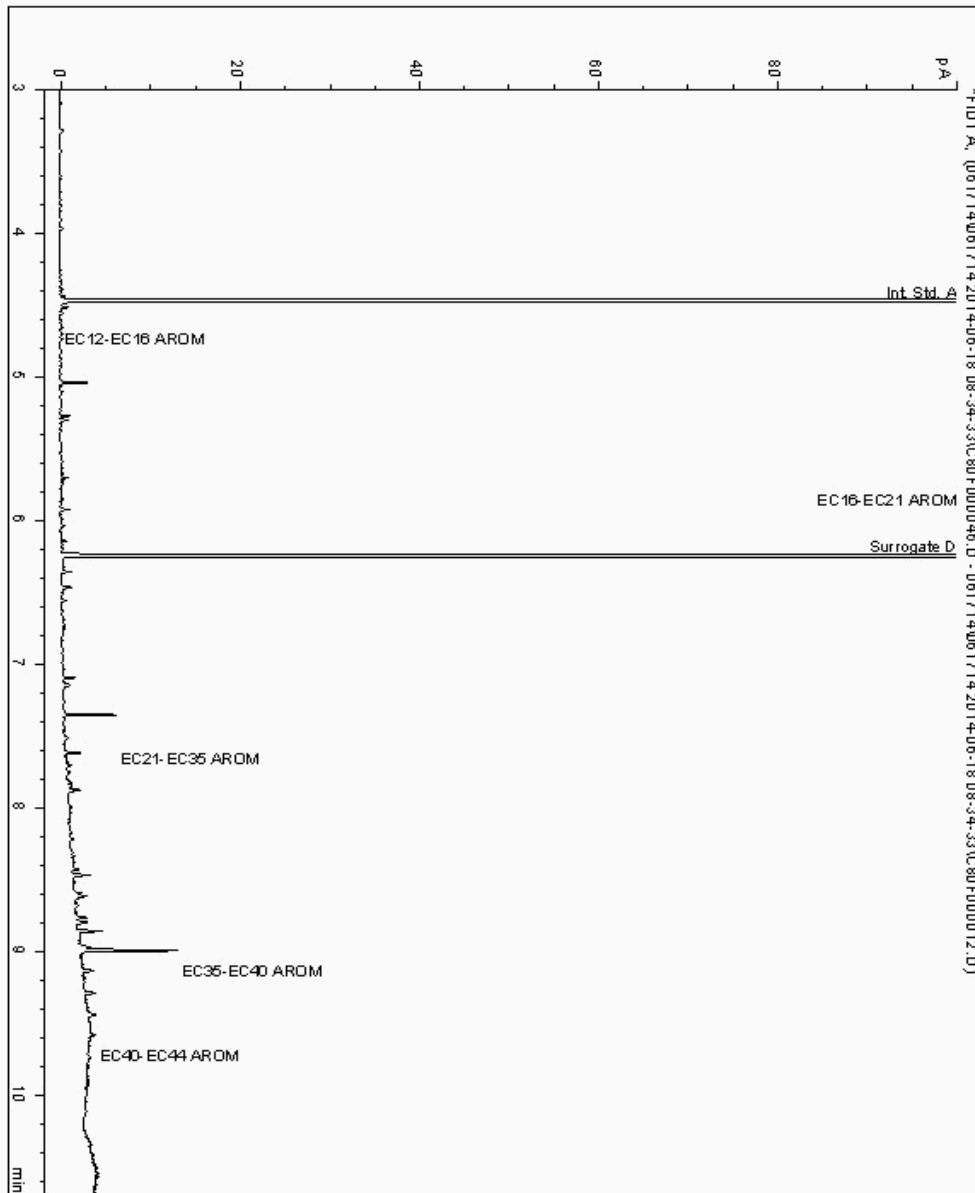
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9432643
Sample ID : CG HA 15

Depth : 0.45 - 0.55

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

Sample Identity: 8949351-9432643
Date Acquired : 18/06/14 21:47:38
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

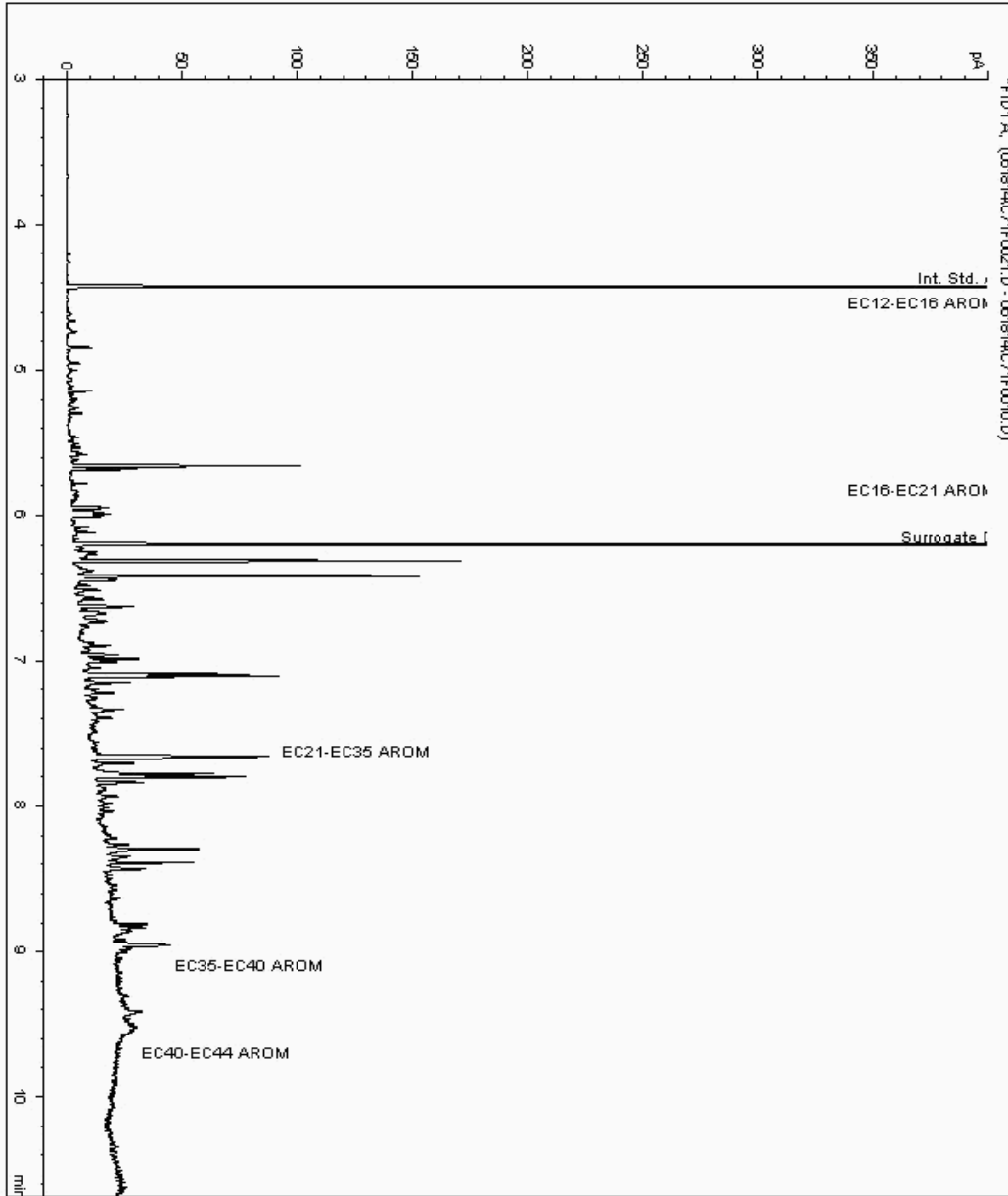
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9432760
Sample ID : CG HA 28

Depth : 0.30 - 0.50

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

Sample Identity: 8949509-9432760
Date Acquired : 18/06/2014 20:56:45 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

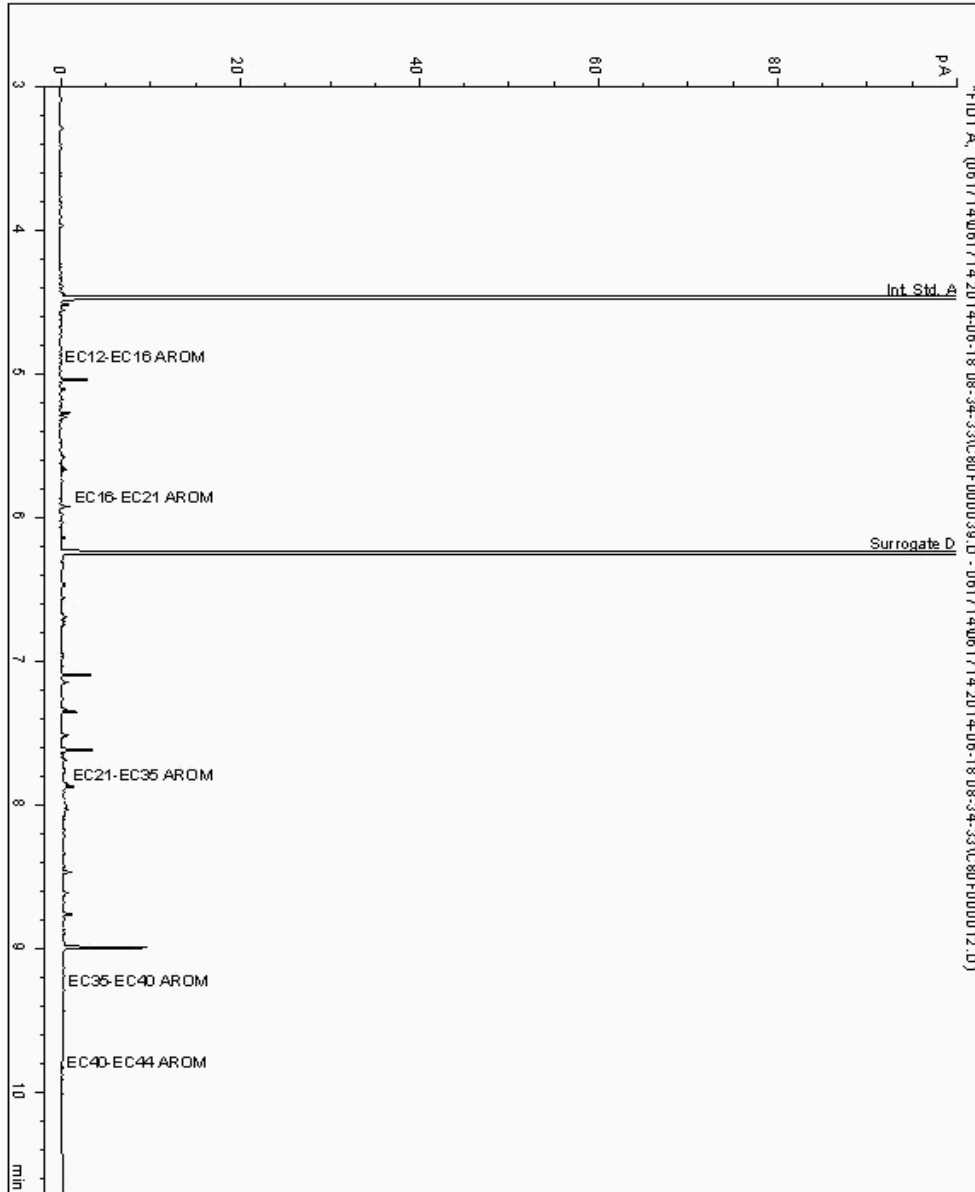
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9432842
Sample ID : CG HA 27

Depth : 0.40 - 0.55

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

Sample Identity: 8949462-9432842
Date Acquired : 18/06/14 19:47:54
Units : ppb
Dilution :
CF : 1
Multiplier : 0.970





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

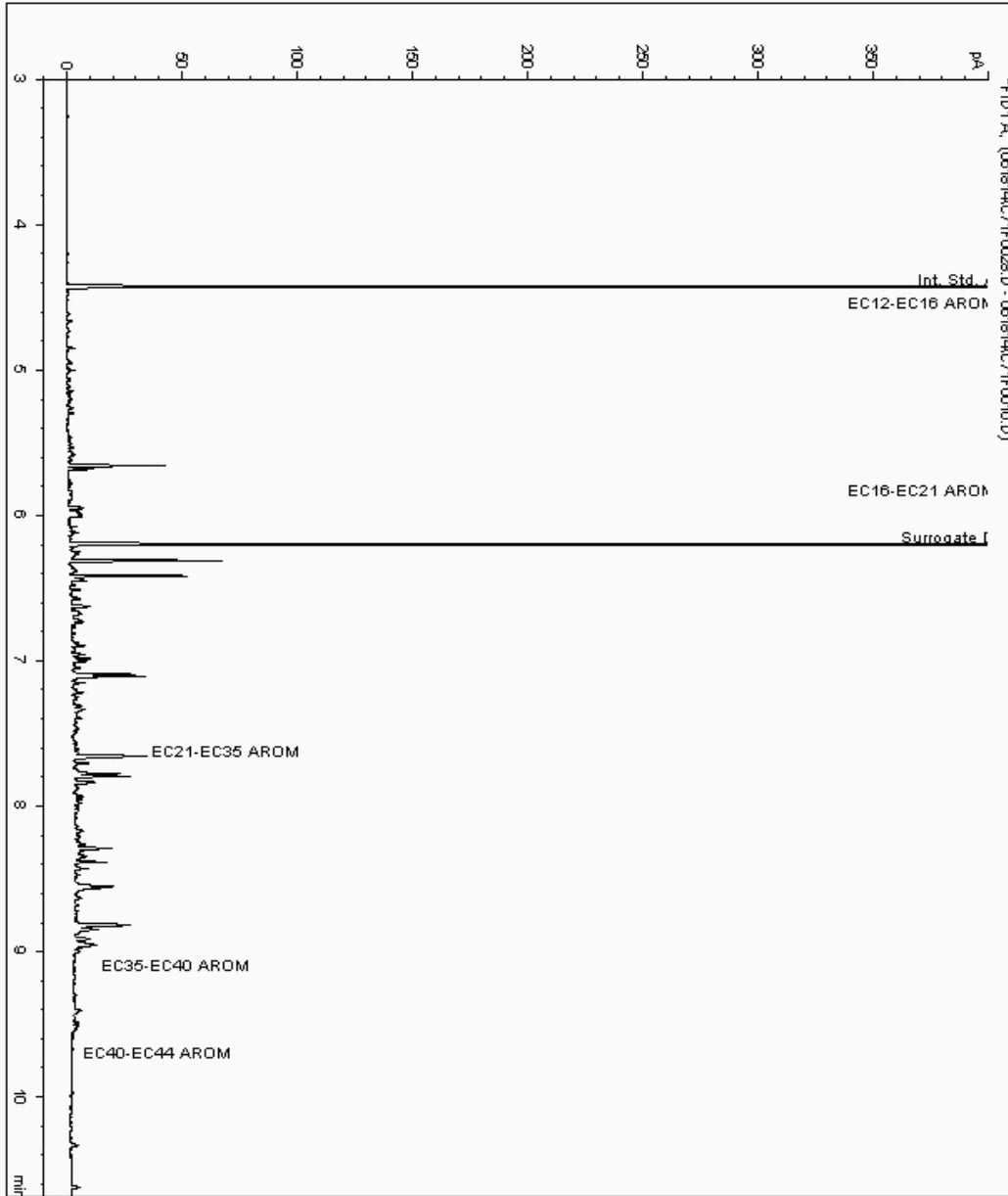
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433015
Sample ID : CG HA 26

Depth : 0.35 - 0.50

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

Sample Identity: 8949425-9433015
Date Acquired : 18/06/2014 22:50:05 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

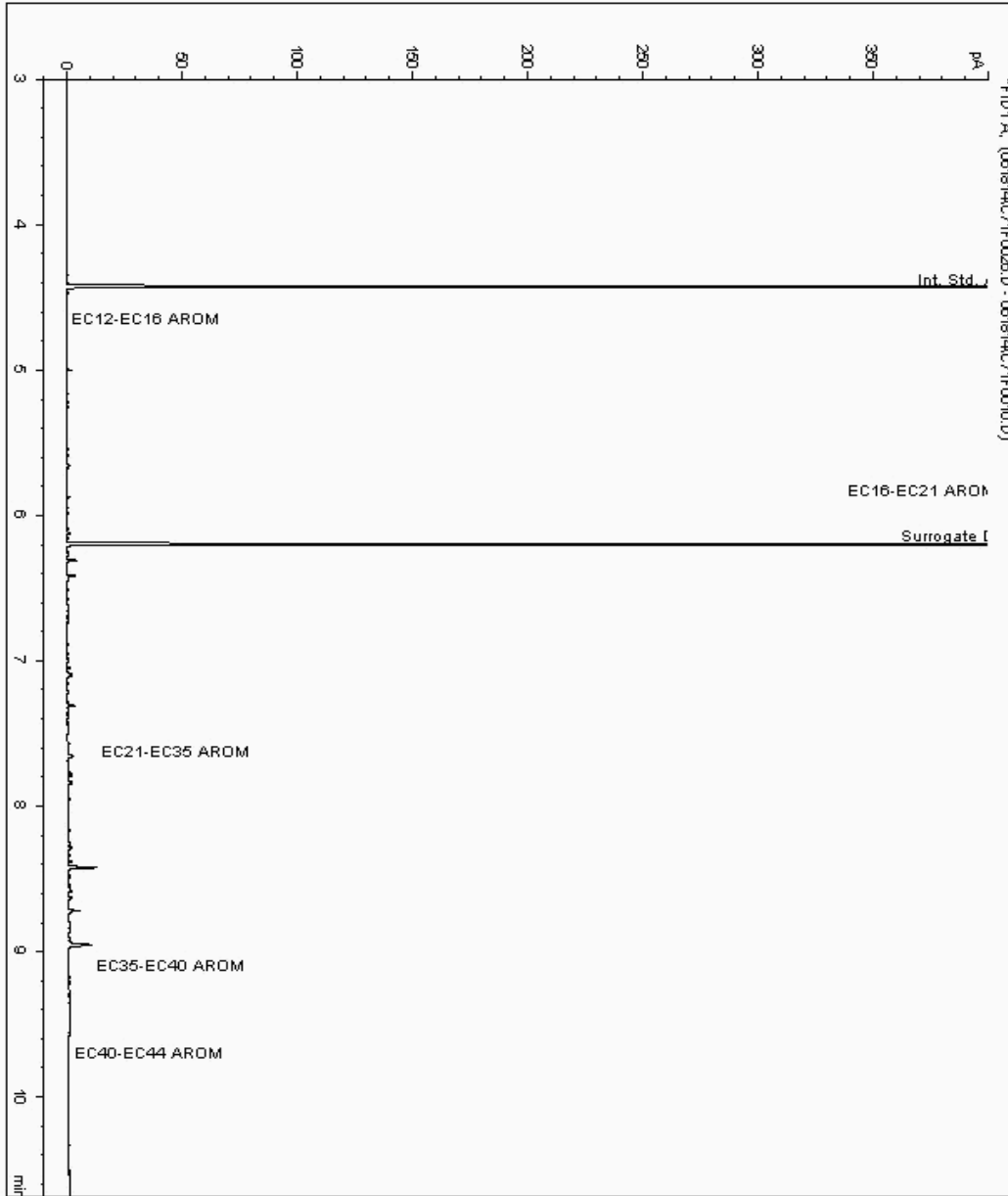
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433090
Sample ID : CG HA 20

Depth : 0.30 - 0.40

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

Sample Identity: 8949399-9433090
Date Acquired : 18/06/2014 22:08:28 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

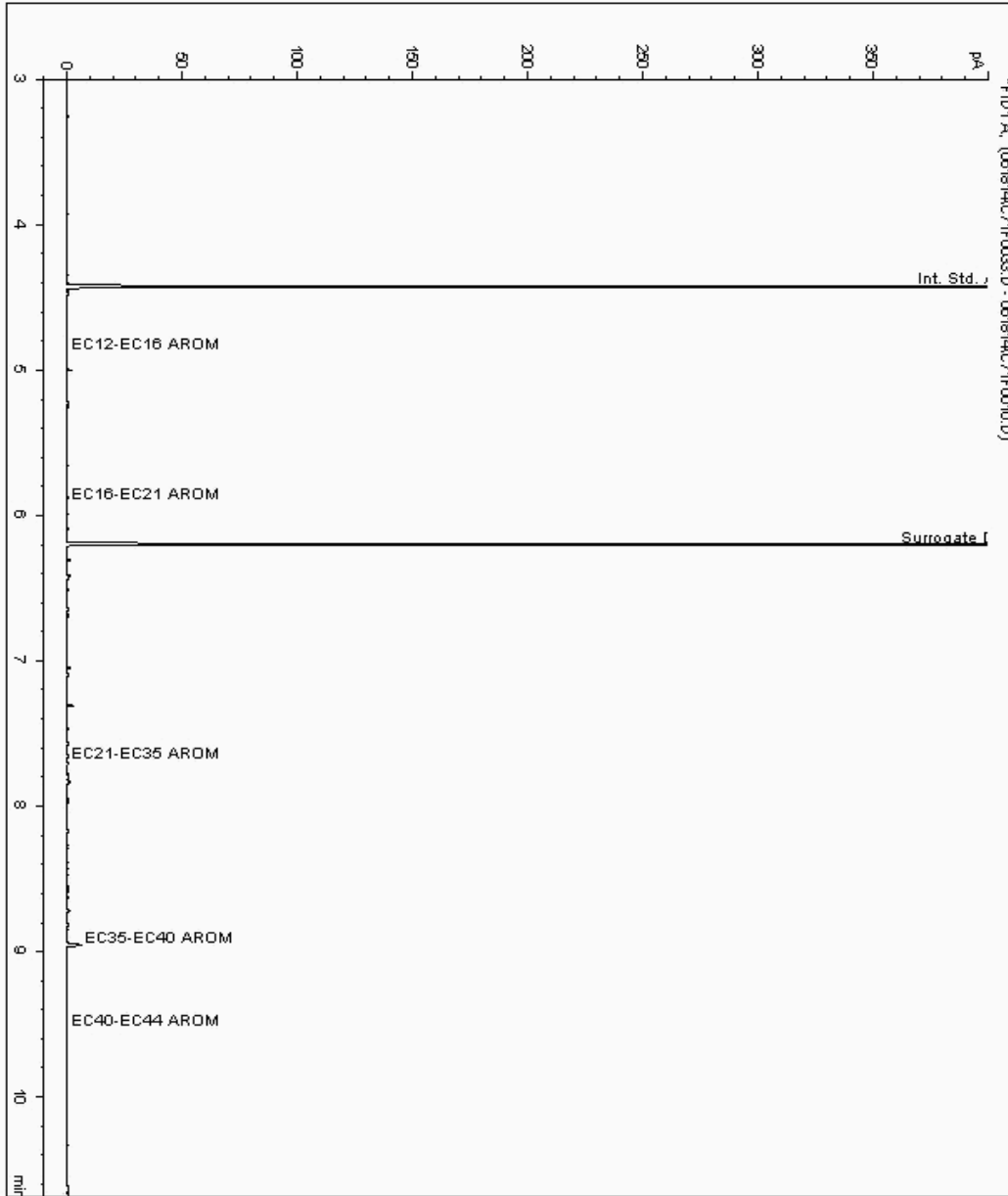
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433189
Sample ID : CG HA 19

Depth : 0.45 - 0.55

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

Sample Identity: 8949374-9433189
Date Acquired : 19/06/2014 00:13:06 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

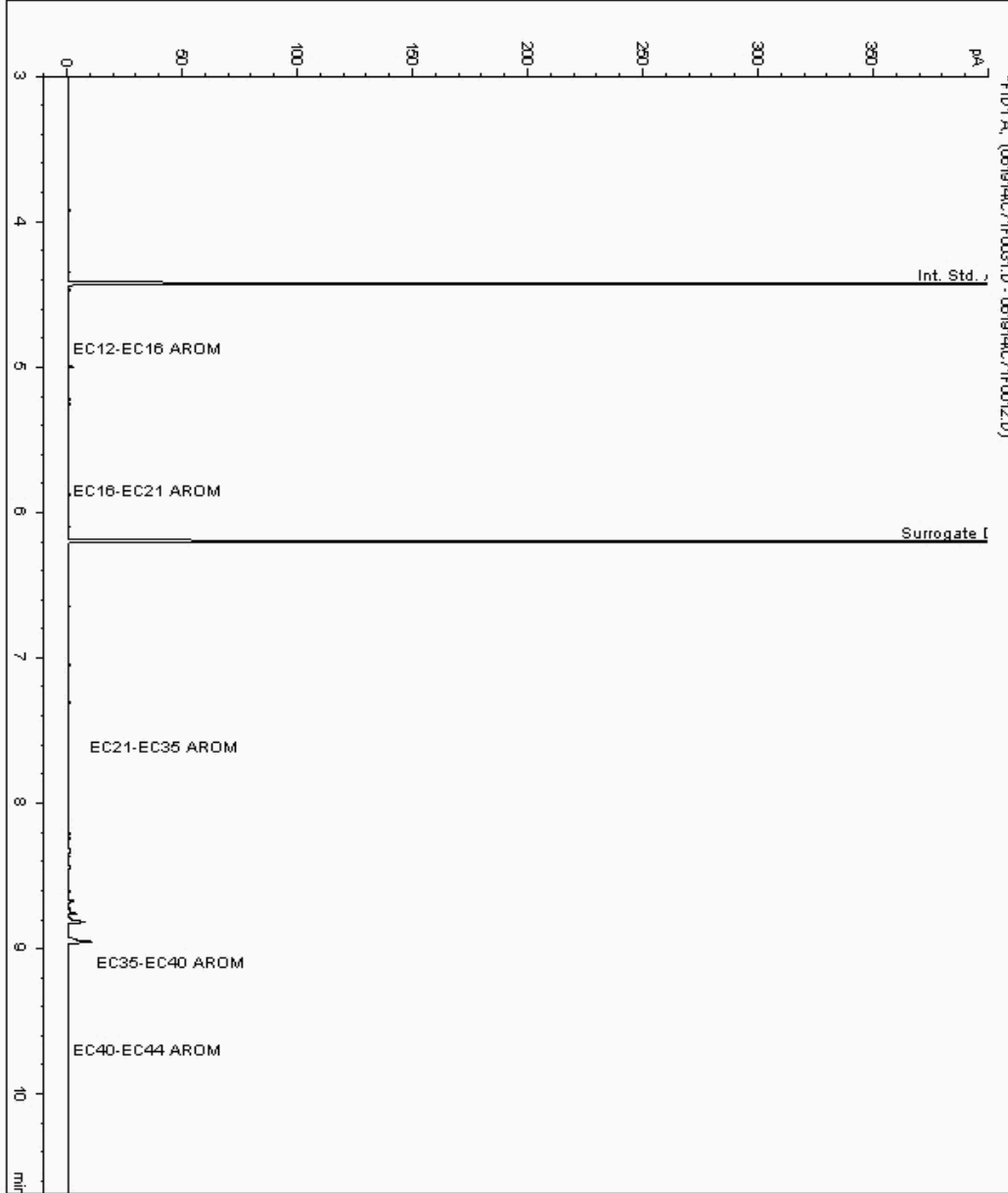
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433381
Sample ID : CG HA 31

Depth : 0.35 - 0.45

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

Sample Identity: 8949547-9433381
Date Acquired : 20/06/2014 02:30:09 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

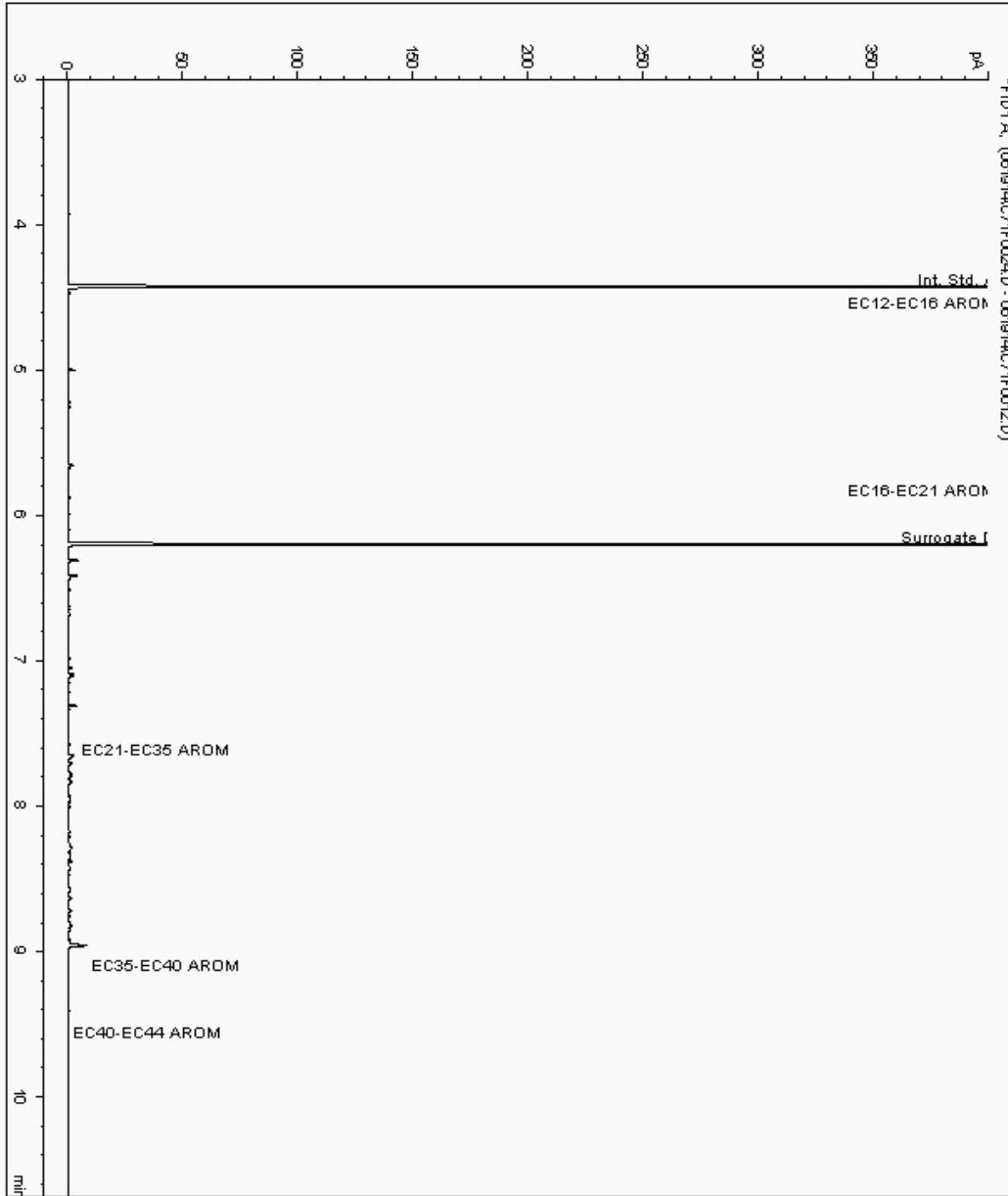
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433438
Sample ID : CG HA 33

Depth : 0.40 - 0.70

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

Sample Identity: 8949589-9433438
Date Acquired : 20/06/2014 00:14:22 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

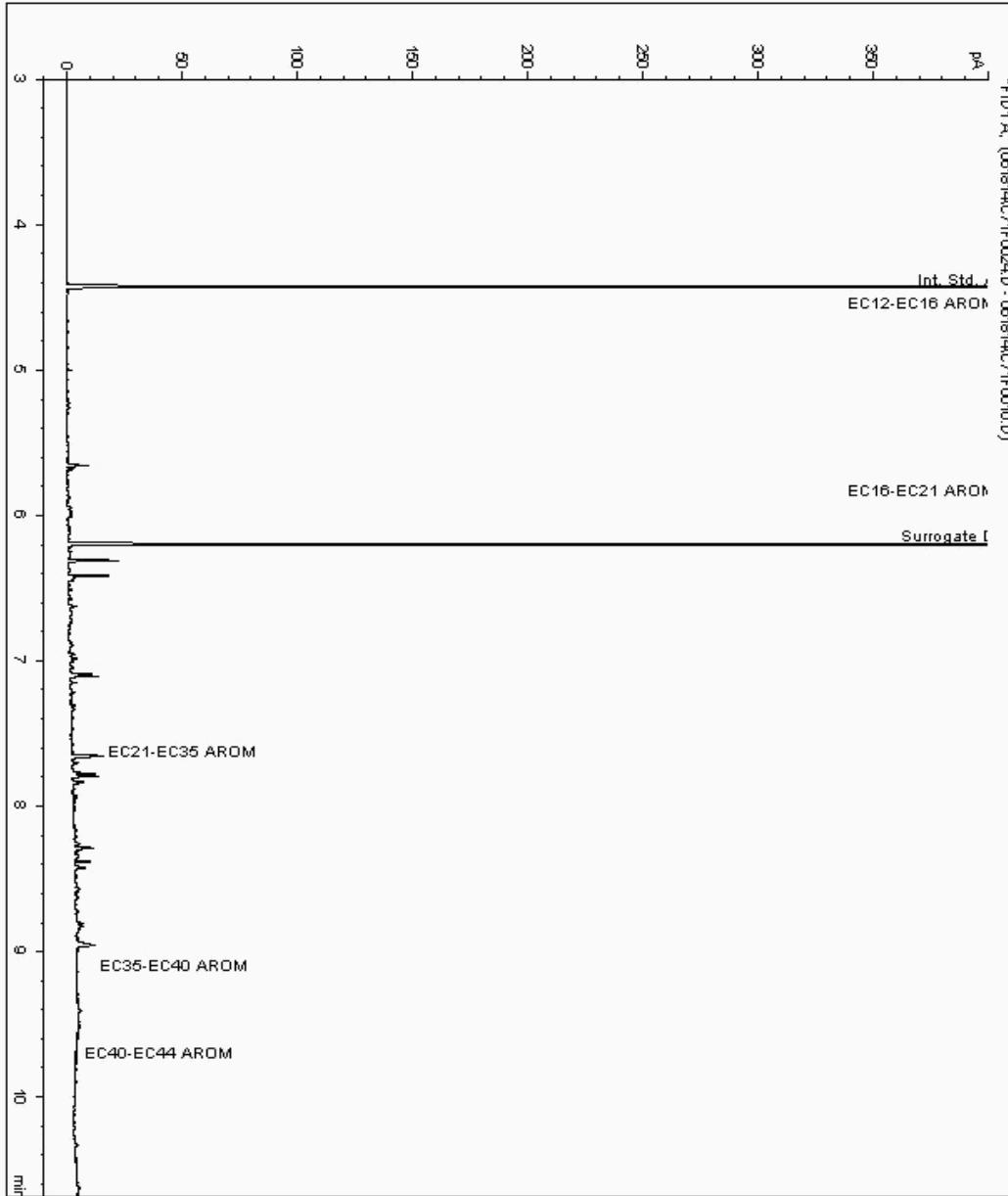
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433580
Sample ID : CG HA 32

Depth : 0.40 - 0.50

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

Sample Identity: 8949572-9433580
Date Acquired : 18/06/2014 21:37:39 PM
Units : ppb
Dilution:





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

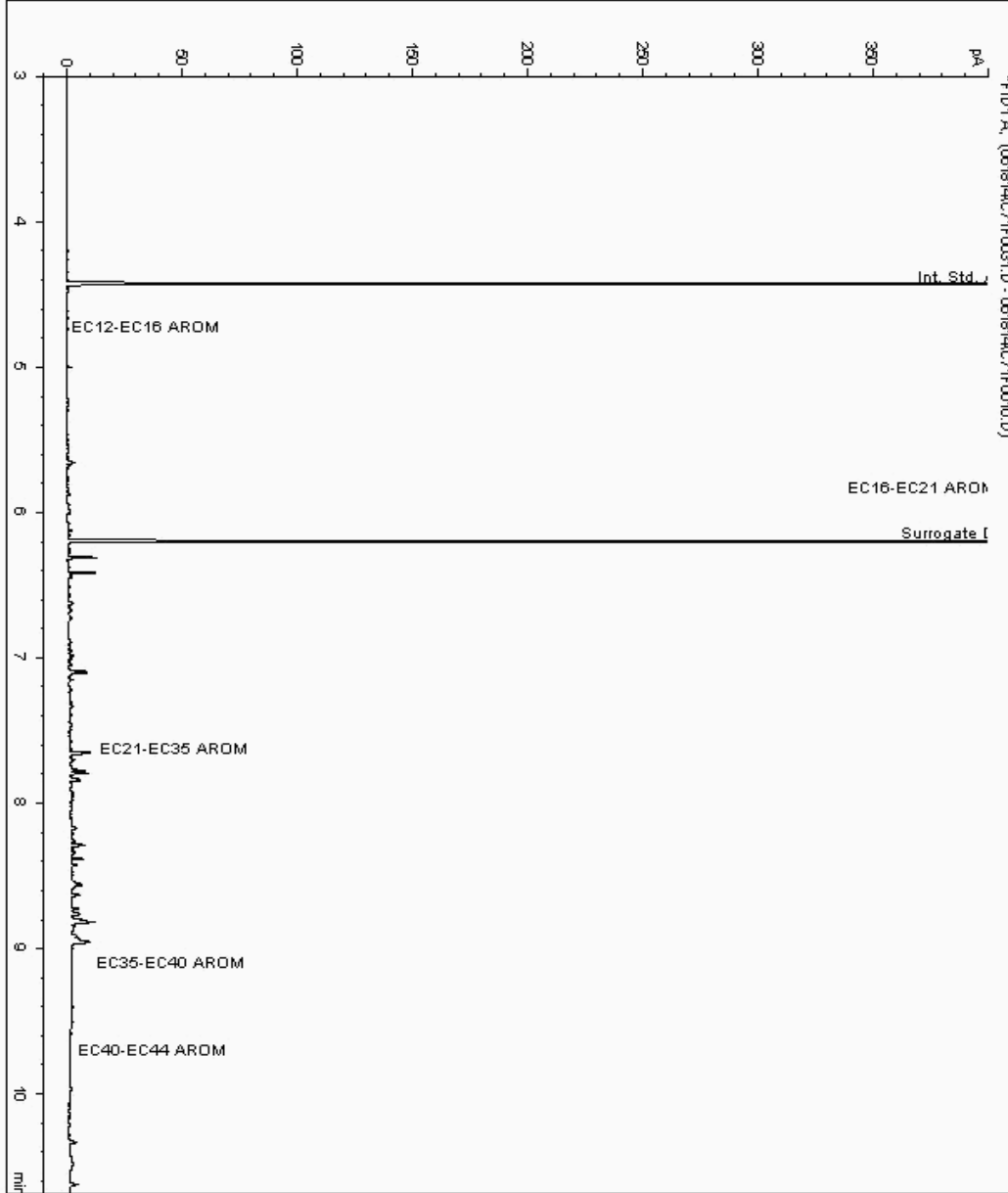
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9433666
Sample ID : CG HA 36

Depth : 0.35 - 0.50

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

Sample Identity: 8949626-9433666
Date Acquired : 18/06/2014 23:41:52 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

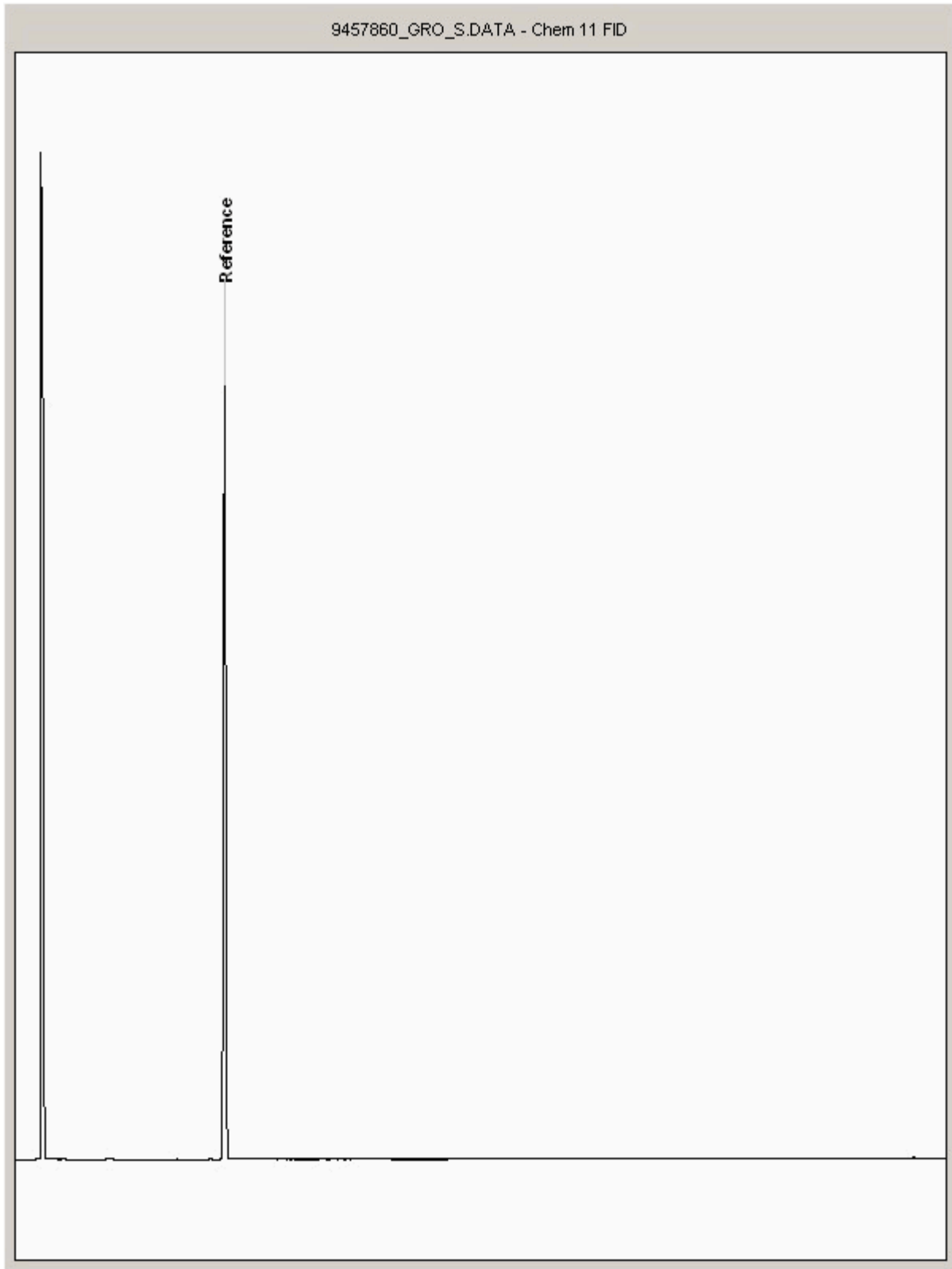
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457860
Sample ID : CG HA 19

Depth : 0.45 - 0.55





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

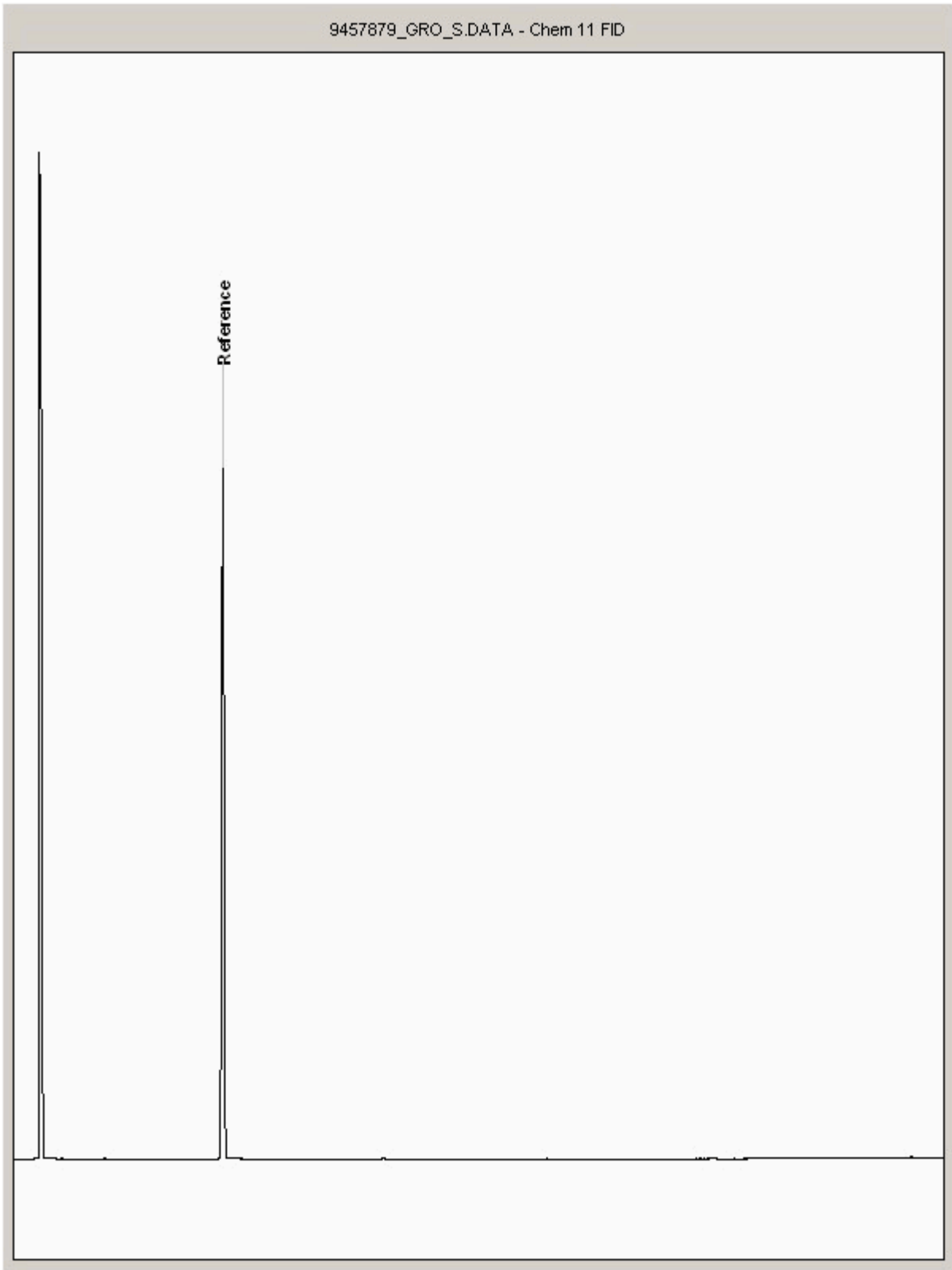
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457879
Sample ID : CG HA 14

Depth : 0.45 - 0.55





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

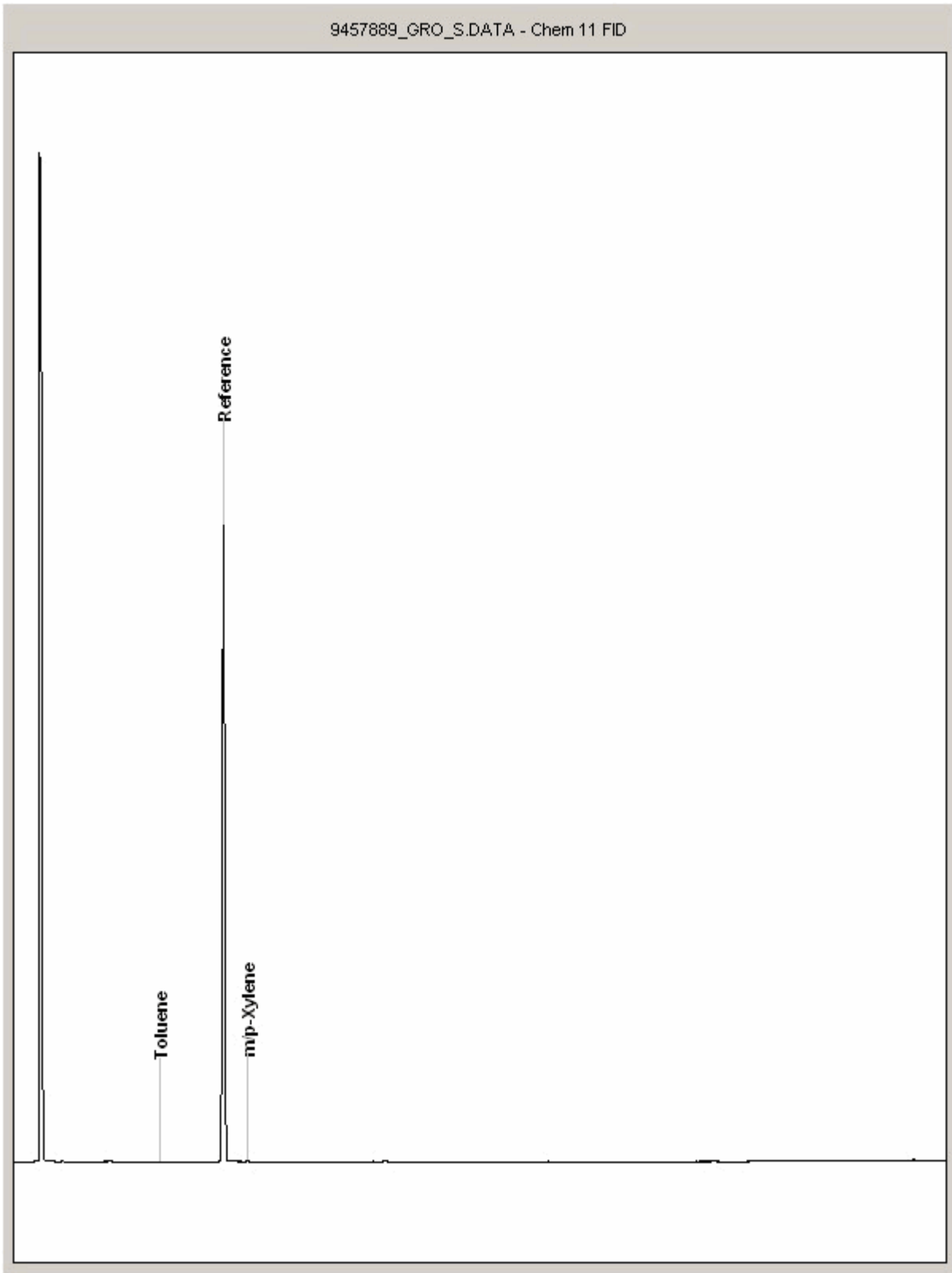
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457889
Sample ID : CG HA 11

Depth : 35.00 - 0.55





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

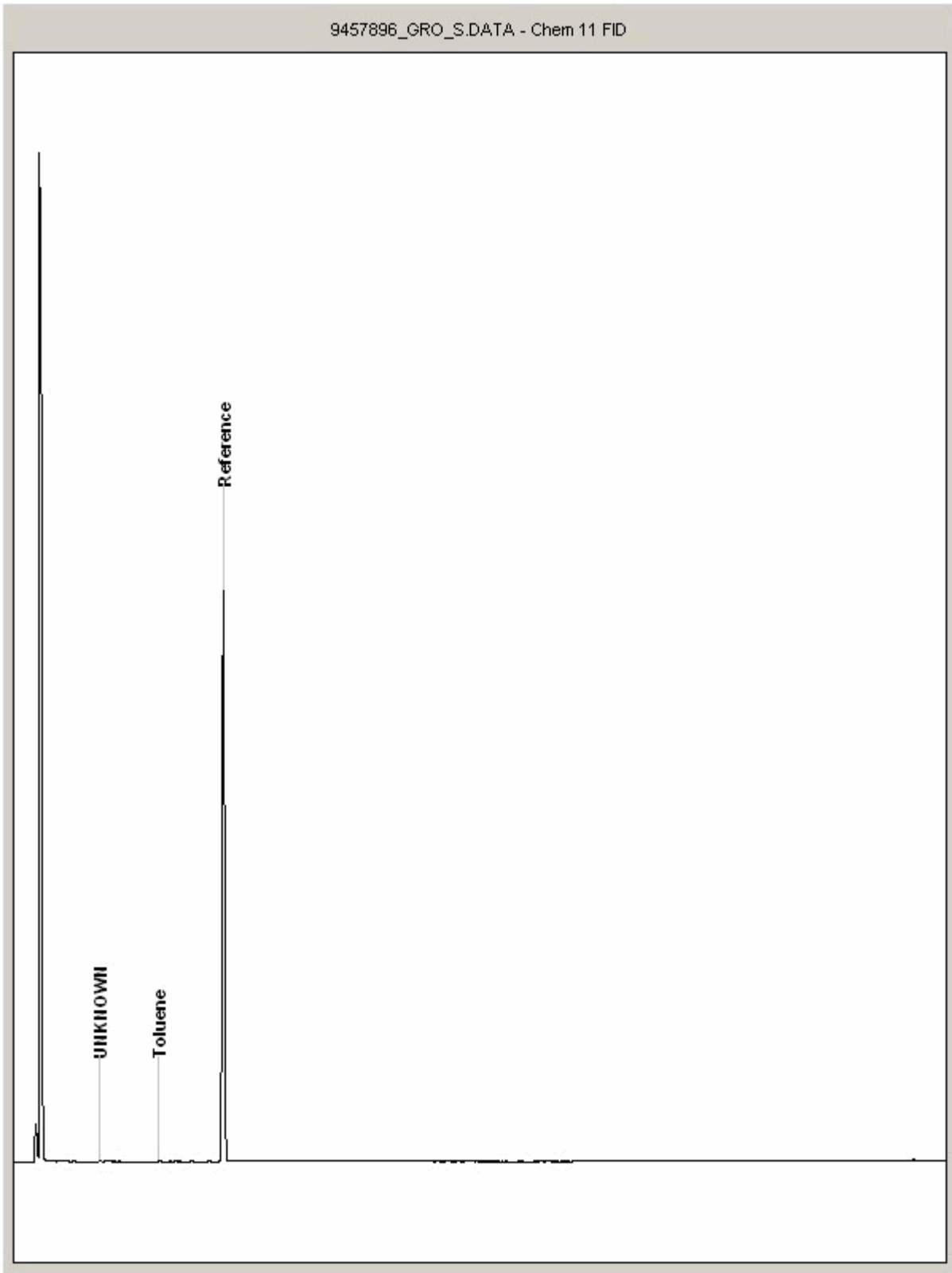
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457896
Sample ID : CG HA 08

Depth : 0.50 - 0.60





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

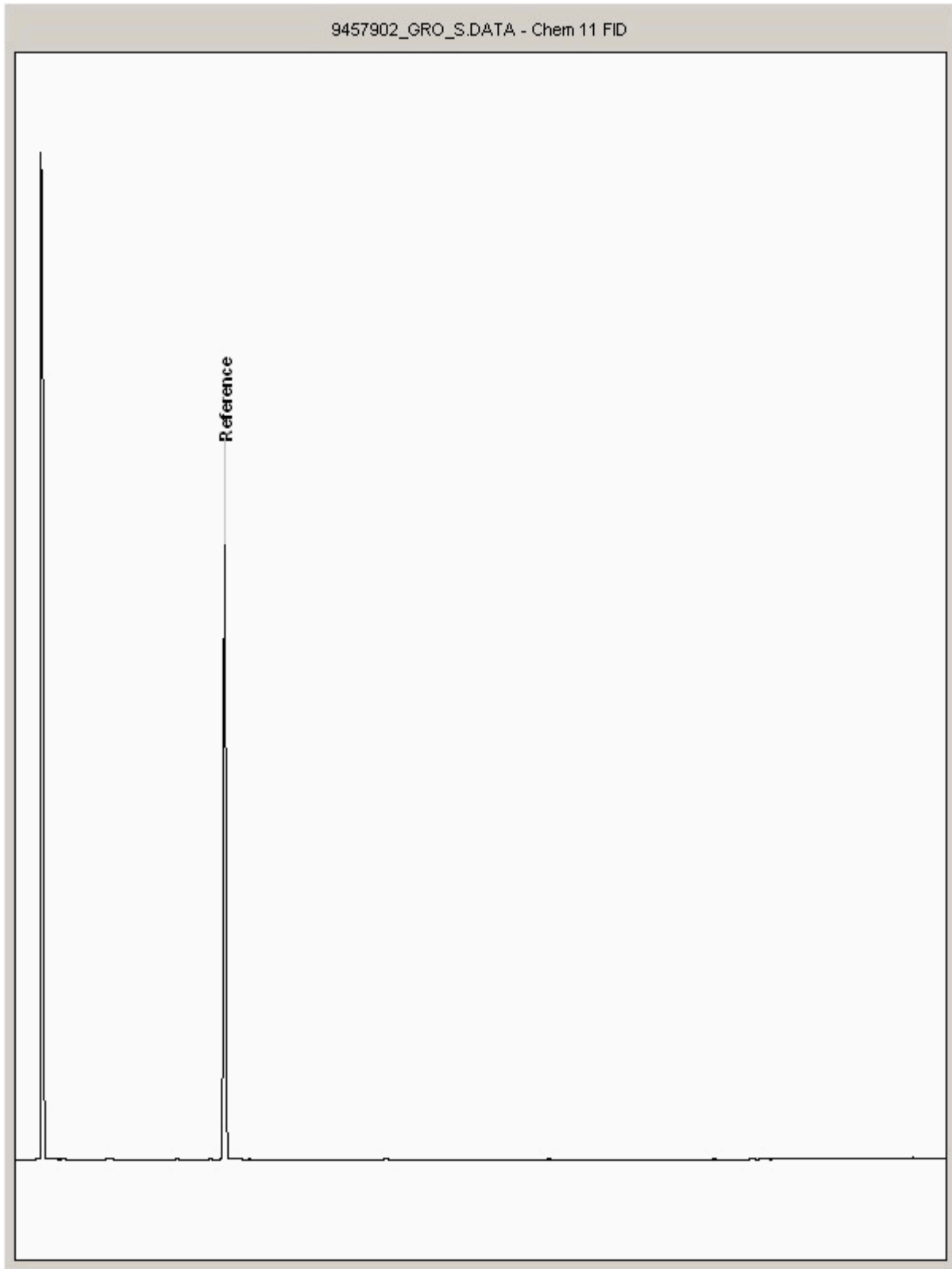
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457902
Sample ID : CG HA 06

Depth : 0.45 - 0.55





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

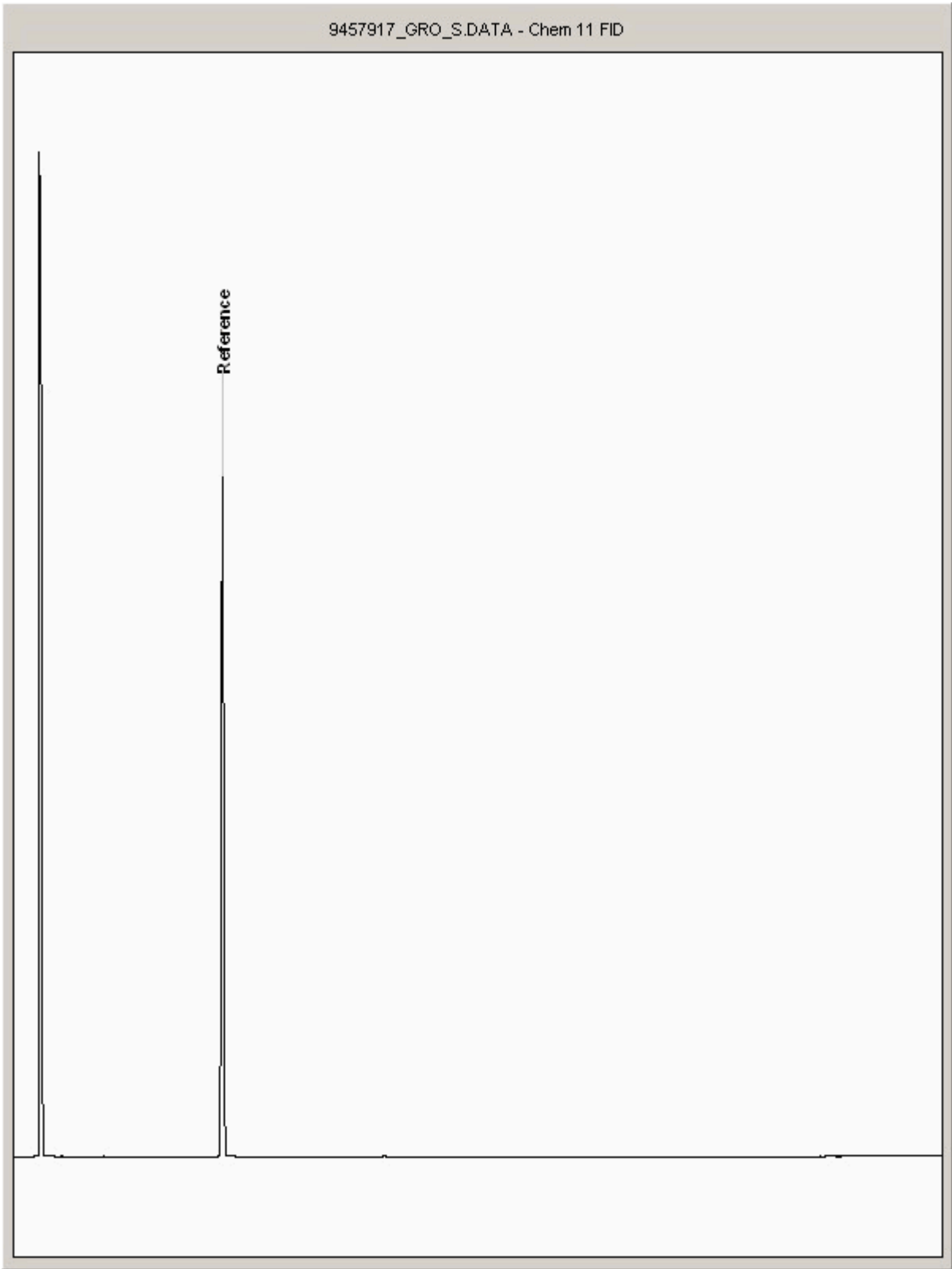
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457917
Sample ID : CG HA 27

Depth : 0.40 - 0.55





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

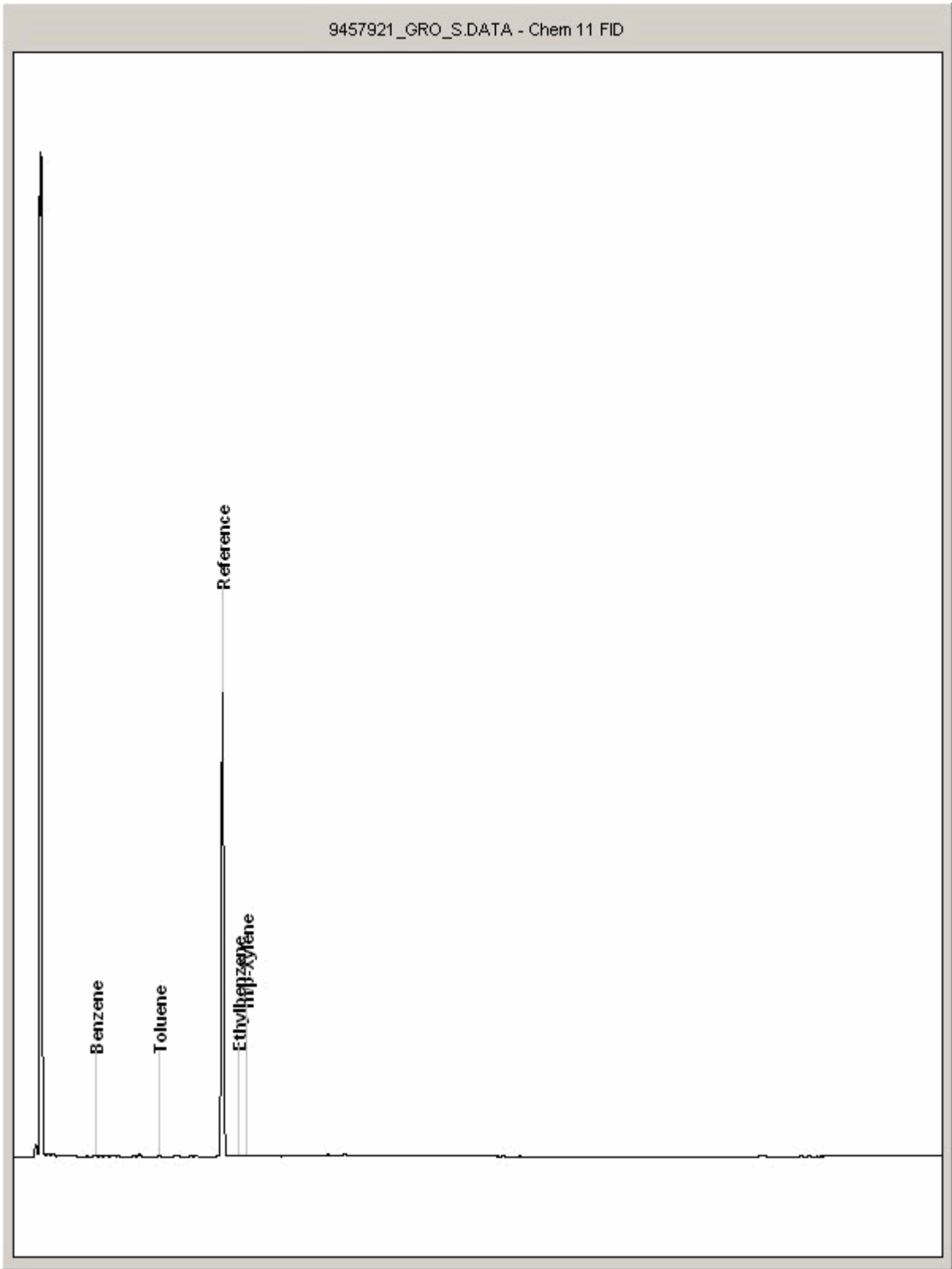
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457921
Sample ID : CG HA 26

Depth : 0.35 - 0.50





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

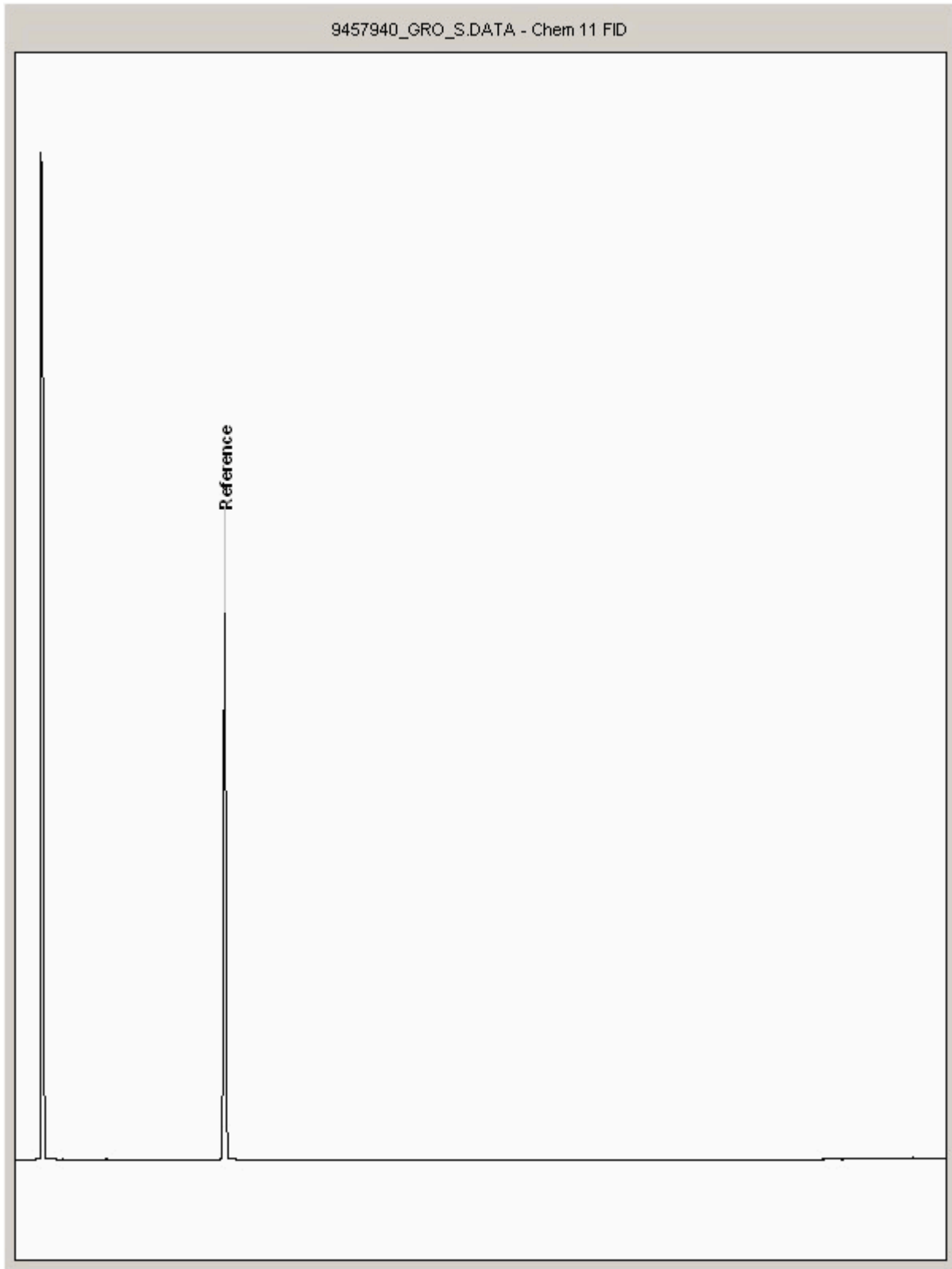
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9457940
Sample ID : CG HA 20

Depth : 0.30 - 0.40





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

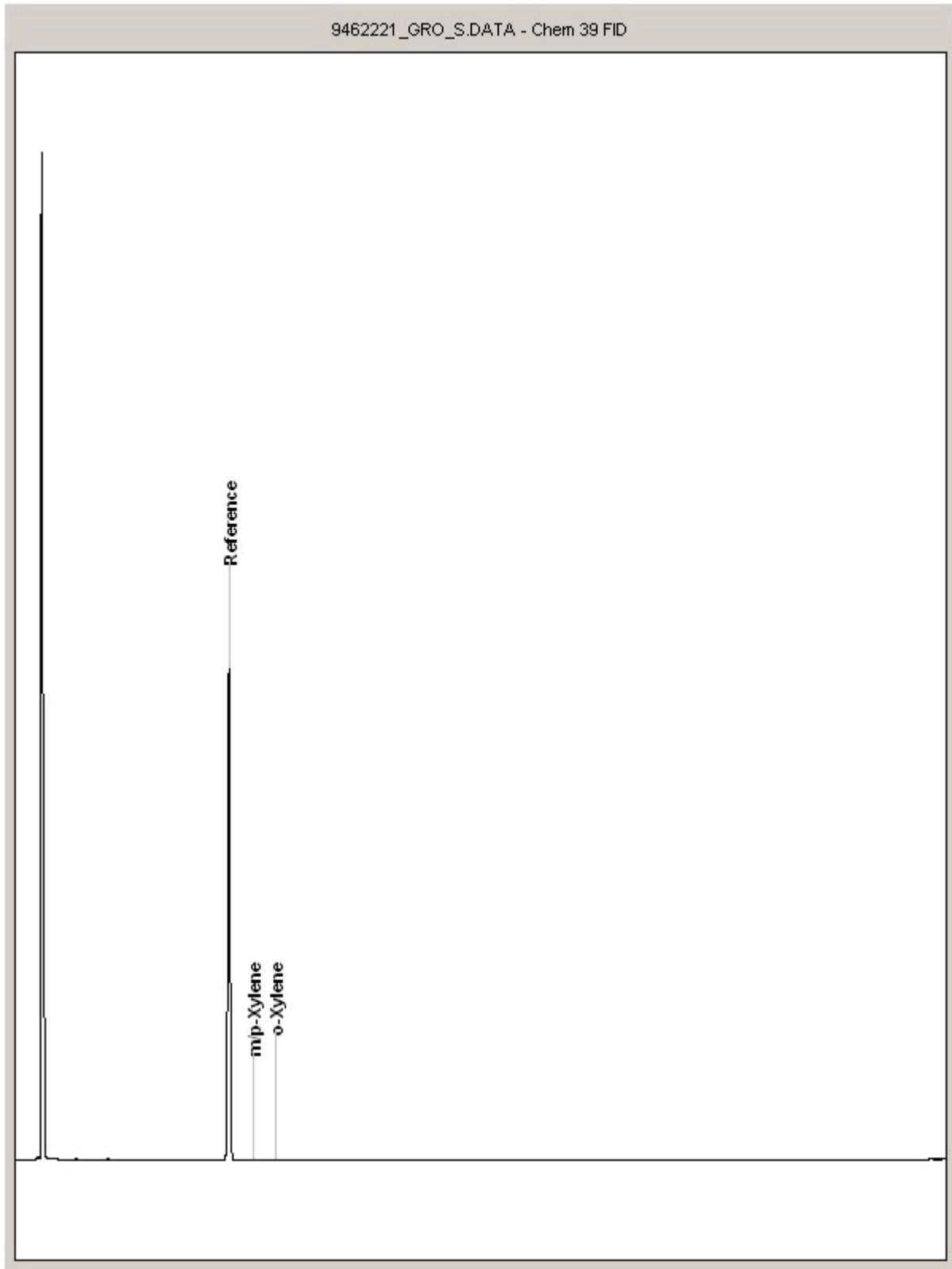
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9462221
Sample ID : CG HA 36

Depth : 0.35 - 0.50





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

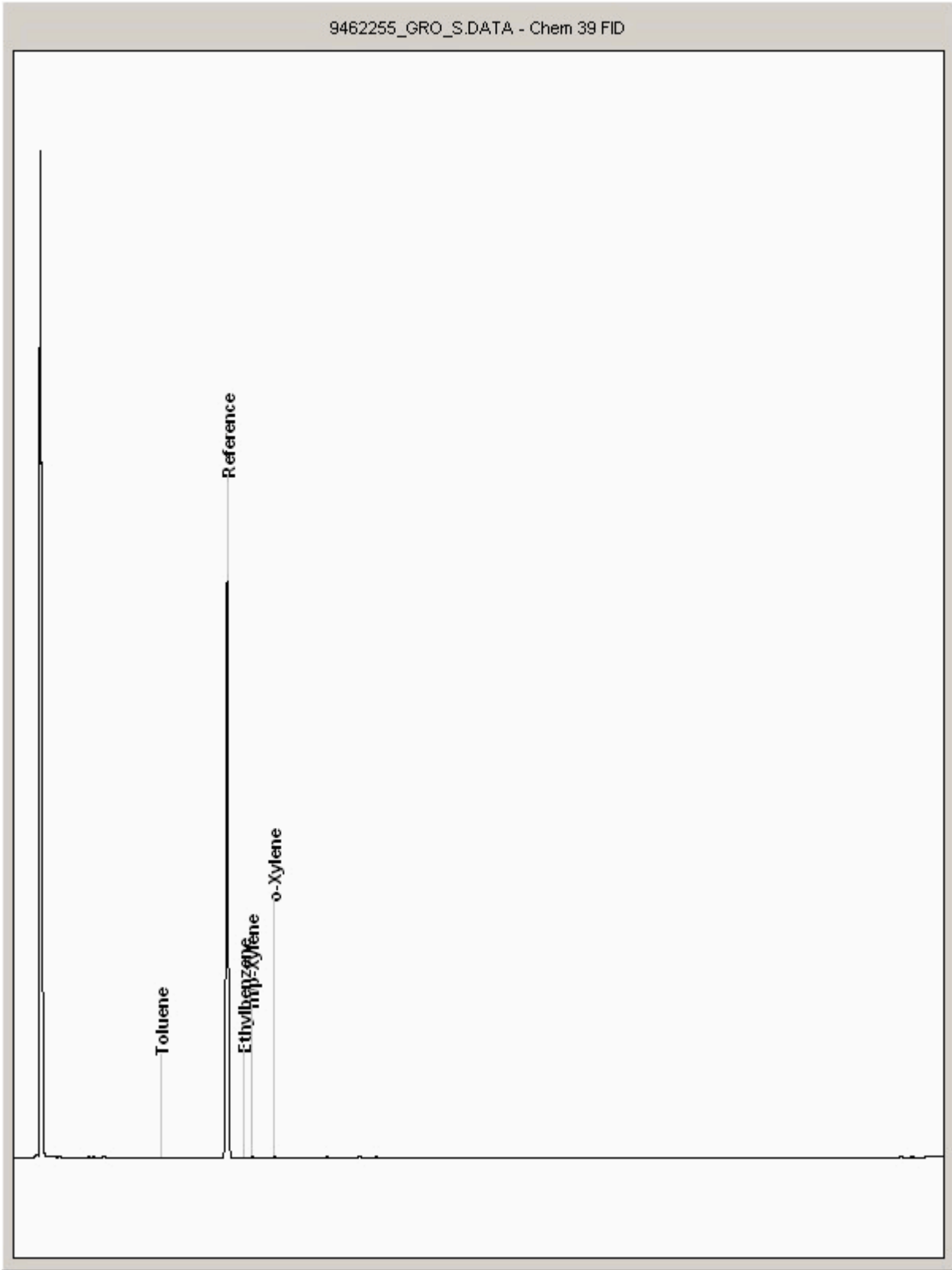
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9462255
Sample ID : CG HA 32

Depth : 0.40 - 0.50





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

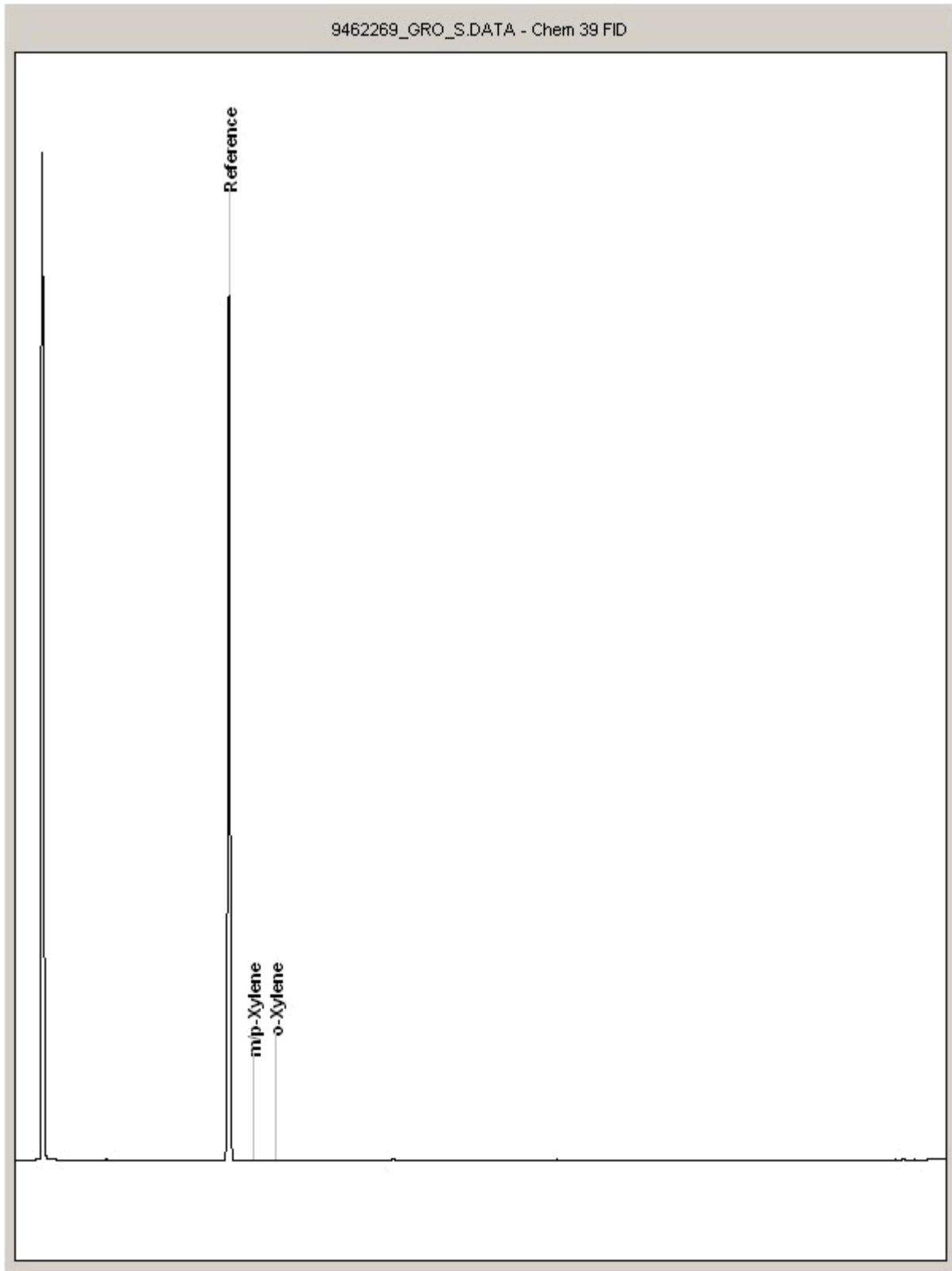
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9462269
Sample ID : CG HA 31

Depth : 0.35 - 0.45





SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

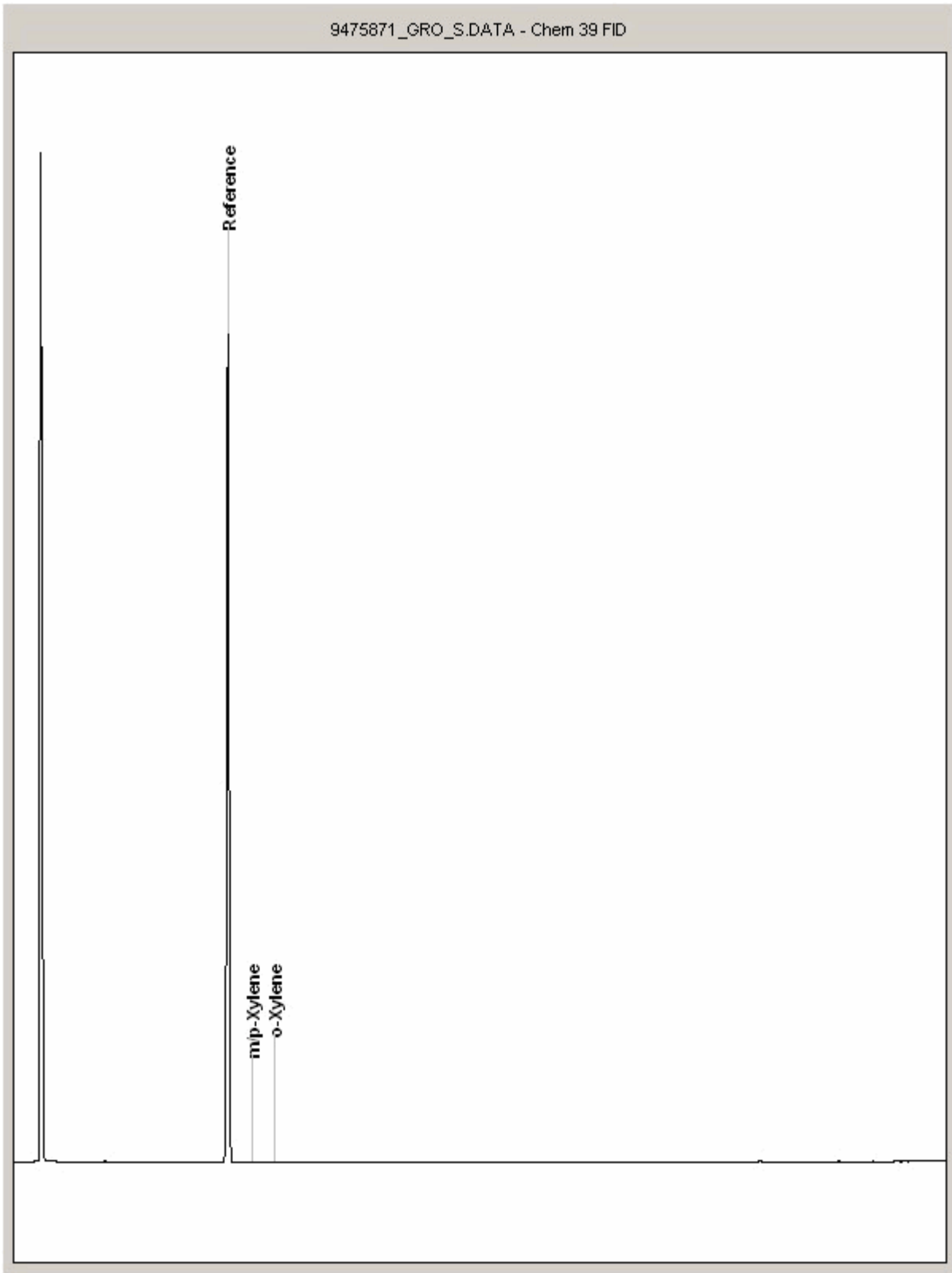
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9475871
Sample ID : CG HA 33

Depth : 0.40 - 0.70





CERTIFICATE OF ANALYSIS

SDG: 140611-59
Job: H_RHASKON_PT8-82
Client Reference: 9Y0074 103 100

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

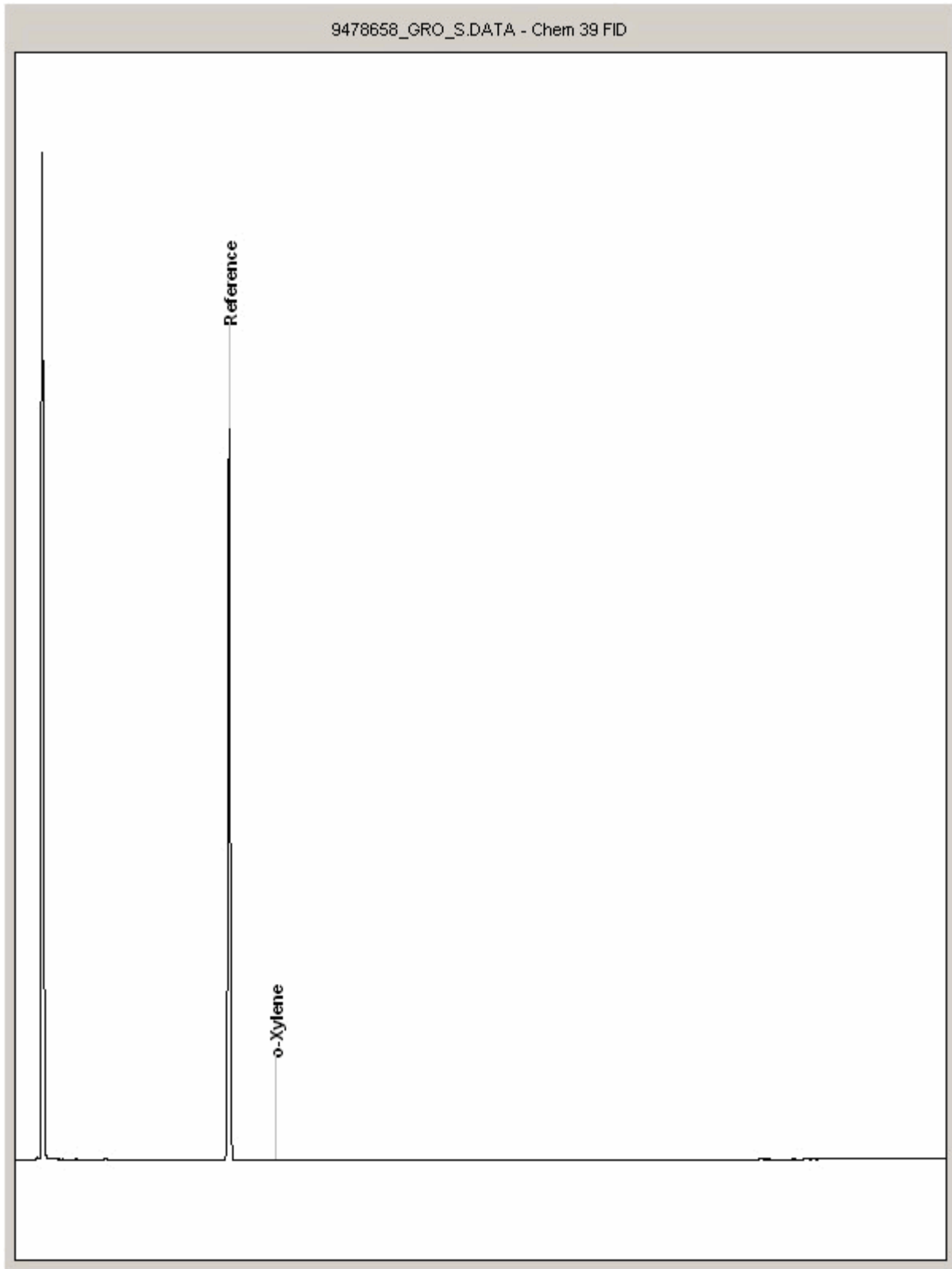
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9478658
Sample ID : CG HA 15

Depth : 0.45 - 0.55





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

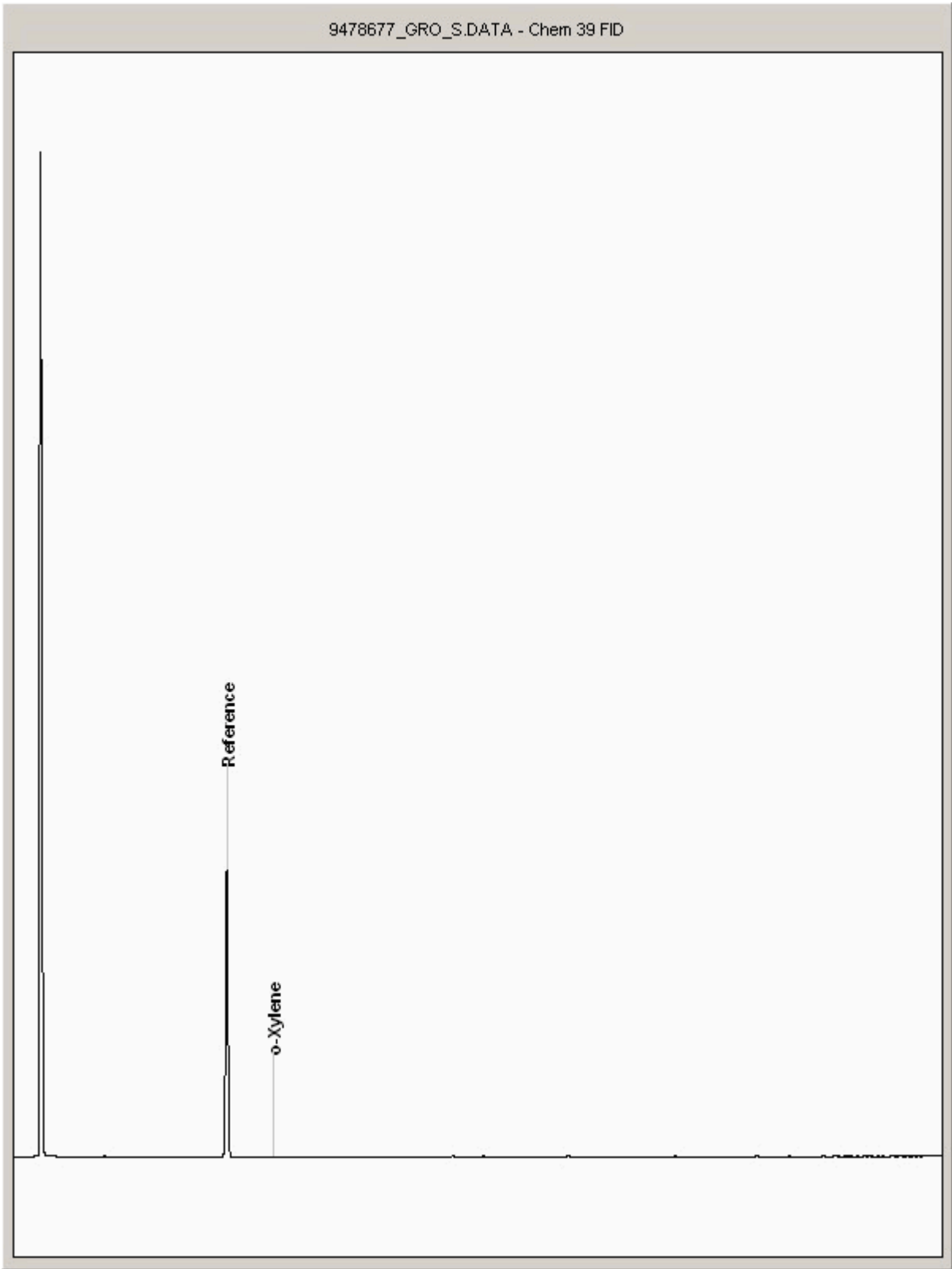
Order Number:
Report Number: 274380
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9478677
Sample ID : CG HA 28

Depth : 0.30 - 0.50





SDG: 140611-59
Job: H_RHASKON_PTB-82
Client Reference: 9Y0074 103 100

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

Order Number:
Report Number: 274380
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 (MINOL)	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 (C6C40) EZ FLASH	WET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID 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 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.

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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.