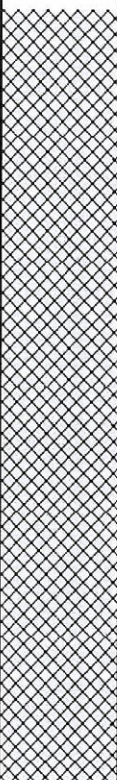
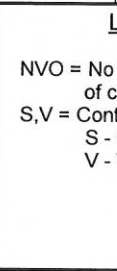
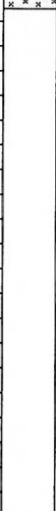


BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP063		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 13/11/2003		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : OG		SCREEN TYPE & DIAM: -	
		CHECKED BY : SG		SCREEN SLOT SIZE: -						
	WSTP063 - 0.5m (S,L,2XP)		*5.5		0.0		DESCRIPTION		COMMENTS	S,V
							Concrete hardstanding. (MADE GROUND)			
	WSTP063 - 3.2m (S,L)		*16.4		0.5		Loose, light to dark grey silty fine to medium sand with angular gravel and cobbles and occasional to frequent wood, pipe fragments and plastic sheet. (MADE GROUND)		Dry-damp	0,0
							Becoming dark brown to grey with some angular boulders.			
			*1.7		1.0				Dry-damp	0,0
			*2.7		1.5					0,0
			*4.5		2.0		Soft, dark grey to brown , locally black, silty CLAY with occasional rounded cobbles.		Damp. Patches of black staining.	1,3
			*34		2.5					1,3
			*35		3.0		Becoming grey to black in colour.		Damp. Slight heavy hydrocarbon odour.	2,4
							Trial pit terminated at 3.15m due to refusal.		Sheen observed on arisings.	2,2

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

S,V = Contamination Observations

S - Odour score (0-5)

V - Visual score (0-5)

LEGEND

 Disturbed Sample

 Undisturbed Sample

 Headspace Analysis

 Down Borehole Analysis

 Groundwater Table

 Perched Water Table

BOREHOLE LOG

Job Title: BP Llandarcy Whole Site Investigation

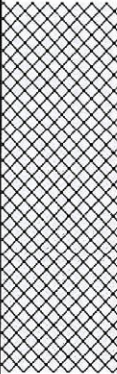
Location: BP Llandarcy Refinery

Client: BP/WDA

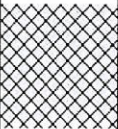


App'd:	Date: February 2004
Drawn : CM	Ref:
Scale: As scale	Job No: 39991-044-785
Drg. Size: A4	BOREHOLE LOG

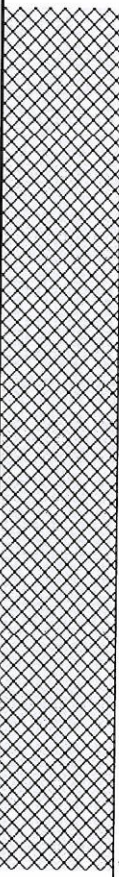
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP064		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 11/11/03		DRILLING METHODS : JCB		
							DRILLER : JCB		BOREHOLE DIAMETER : -		
							LOGGED BY : JW		SCREEN TYPE & DIAM: -		
							CHECKED BY : SG		SCREEN SLOT SIZE: -		
DESCRIPTION		COMMENTS	S,V								
	WSTP064 - 0.4m (S,L)	*1.1	0.0	Concrete hardstanding. (MADE GROUND)	NVO, Dry	0,0					
		*1.3	0.5	Loose, dark brown, slightly silty fine to medium sand with occasional fine to coarse angular gravel and a section of brick wall. (MADE GROUND)							
		*1.3	1.0	Loose, brown, slightly silty fine to coarse sand with abundant fine to coarse subangular and subrounded gravel and occasional fine brick gravel. (MADE GROUND)							
	WSTP064 - 1.75m (S,L)	*2.1	1.5	Loose, brown slightly silty fine to coarse SAND with abundant fine to coarse subangular and subrounded gravel, frequent cobbles and sandstone boulders.	NVO	0,0					
			2.0	Moderately weak weathered SANDSTONE. Trial pit terminated at 2.0m due to refusal on bedrock.	NVO NVO	0,0 0,0					
							2.5				
							3.0				
							3.5				
							4.0				
							4.5				
							5.0				
LOCATION / NOTES:						LEGEND		BOREHOLE LOG			
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)						 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		Job Title: BP Llandarcy Whole Site Investigation			
								Location: BP Llandarcy Refinery			
								Client: BP/WDA			
										App'd: _____ Date: December 2003	
										Drawn : JW _____ Ref: _____	
		Scale: As Scale Job No: 39991-044-785									
		Drg. Size: A4 BOREHOLE LOG									

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP101		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 04/11/03		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : EM		SCREEN TYPE & DIAM: -	
		CHECKED BY : SG		SCREEN SLOT SIZE: -						
	WSTP101 - 0.4m (S,L,2xP)		*55.1		0.0		DESCRIPTION		COMMENTS	S,V
					0.5		Coarse gravels, cobbles and boulders. (TOPSOIL)		Surface pooling of water	
					1.0		Loose, dark brown silty fine SAND with clay patches and frequent fine to coarse gravels, subangular cobbles and tabular boulders.		Wet	0,0
					1.5		With increasing proportion of tabular cobbles and boulders from 1.0m.		Faint hydrocarbon odour	1,0
	WSTP101 - 1.25m (S,L)		*2.3		2.0		Trial pit terminated at 1.5m due to refusal on bedrock.			1,0
					2.5					
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					

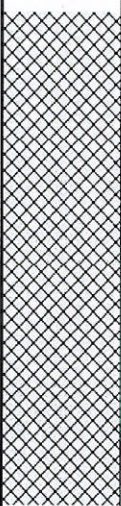
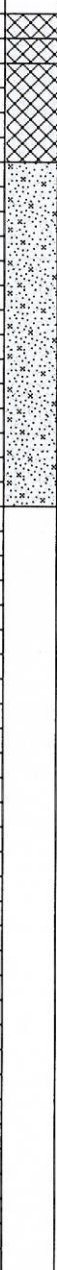
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	 Disturbed Sample	Job Title: BP Llandarcy Whole Site Investigation	
S,V = Contamination Observations	 Undisturbed Sample	Location: BP Llandarcy Refinery	
S - Odour score (0-5)	 Headspace Analysis	Client: BP/WDA	
V - Visual score (0-5)	 Down Borehole Analysis		App'd: _____
	 Groundwater Table		Date: January 2004
	 Perched Water Table		Drawn : EM
			Ref: _____
		Scale: As shown	Job No: 39991-044-785
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP102		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 04/11/03		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : EM		SCREEN TYPE & DIAM: -	
							CHECKED BY : SG		SCREEN SLOT SIZE: -	
	WSTP102 - 0.5m (S,L)		*3.2		0.0		DESCRIPTION		COMMENTS	S,V
					Coarse gravel (MADE GROUND)		Damp	0,0		
					Loose, brown, silty fine sand with frequent fine to coarse gravels, cobbles and boulders (MADE GROUND)		Moist	2,0		
			0.5		Coarse black gravel (ash and clinker) (MADE GROUND)		Free product on pooling water	2,3		
					Trial pit terminated at 0.5m due to refusal.					
					1.0					
					1.5					
					2.0					
					2.5					
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					

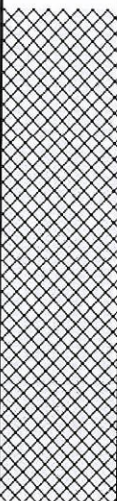
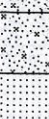
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: BP Llandarcy Whole Site Investigation Location: BP Llandarcy Refinery Client: BP/WDA 	
		App'd:	Date: January 2004
		Drawn : HM	Ref:
		Scale: As shown	Job No: 39991-044-785
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP119		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 13/11/2003		DRILLING METHODS: JCB	
							DRILLER: JCB		BOREHOLE DIAMETER: -	
							LOGGED BY: OG		SCREEN TYPE & DIAM: -	
							CHECKED BY: SG		SCREEN SLOT SIZE: -	
							DESCRIPTION	COMMENTS	S,V	
	WSTP119-0.6m (S,L)		*3.5		0.0		Reinforced concrete hardstanding. (MADE GROUND)	Dry		
							Loose dark red/burgundy silty fine to coarse sand with red ash and angular gravel to cobbles of sandstone and occasional brick fragments. (MADE GROUND)	Damp	0,0	
								Damp	0,0	
								Becoming grey from 1.6m.	Wet. Water ingress at 1.6m with sheen and possible free product.	3,4
								Very dark grey staining and heavy hydrocarbon odour.	3,4	
	WSTP119-3.5m (S,L)		*27		3.5		Trial pit terminated at 3.5m due to refusal.		3,4	

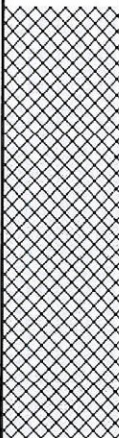
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: BP Llandarcy Whole Site Investigation Location: BP Llandarcy Refinery Client: BP/WDA  App'd: _____ Date: February 2004 Drawn: CM Ref: _____ Scale: As scale Job No: 39991-044-785 Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP120		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 10/11/03		DRILLING METHODS: JCB	
							DRILLER: JCB		BOREHOLE DIAMETER: -	
							LOGGED BY: SS		SCREEN TYPE & DIAM: -	
							CHECKED BY: SG		SCREEN SLOT SIZE: -	
							DESCRIPTION	COMMENTS	S,V	
	WSTP120 - 0.4m (S,L,P)		*116		0.0		Loose gravel of slag and clinker over fine, sandstone gravel bed. (MADE GROUND)	Damp. NVO.	0,0	
					0.3		Black, asphalt. (MADE GROUND)	Water ingress at 0.3m. Hydrocarbon odour and sheen on water.	3,3	
	WSTP120 - 0.7m (S,L)		*20.2		0.5		Loose, red, fine gravel and sand-sized ash and slag/clinker with coarse gravel and cobbles of sandstone. (MADE GROUND)	Grey staining with slight-moderate hydrocarbon odour.	2,2	
					1.0		Loose, grey, gravelly, silty SAND with frequent cobbles.	Dry-damp. Slight hydrocarbon odour and grey staining.	2,1	
					1.5			Dry-damp. No staining, slight hydrocarbon odour.	1,0	
			*19.5		2.0	Trial pit terminated at 2.0m due to refusal at bedrock.				
					2.5					
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: BP Llandarcy Whole Site Investigation Location: BP Llandarcy Refinery Client: BP/WDA 	
		App'd:	Date: November 2003
		Drawn: SS	Ref:
		Scale: As scale	Job No: 39991-044-785
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP121 (PIT)		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 11/11/03		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : JW		SCREEN TYPE & DIAM: -	
							CHECKED BY : SG		SCREEN SLOT SIZE: -	
							DESCRIPTION	COMMENTS	S,V	
	WSTP121-0.4m (S,L)		*71.5		0.0		Soft to firm sandy silt with some fine to coarse subangular gravel, rare rootlets and cables. (MADE GROUND)	Faint hydrocarbon odour.	1,0	
					0.5		Loose grey brown silty fine to medium SAND with abundant fine to coarse subrounded and subangular gravel.	Moderate light hydrocarbon odour and discoloration to 1.5m.	2,3	
	WSTP121-1.6m (S,L)		*64.4		1.0		Sandstone cobbles and boulders from 1.0m	Becoming wet.		
					1.5		Firm light brown slightly fine sandy SILT with occasional fine to coarse subrounded sandstone gravel and cobbles.	Faint hydrocarbon odour.	1,0	
			*9.8		2.0		Well cemented SANDSTONE.	Damp, NVO	0,0	
			*3.1		2.0		Trial pit terminated at 2.0m due to refusal on bedrock.			
					2.5					
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	 Disturbed Sample	Job Title: BP Llandarcy Whole Site Investigation	
S,V = Contamination Observations	 Undisturbed Sample	Location: BP Llandarcy Refinery	
S - Odour score (0-5)	 Headspace Analysis	Client: BP/WDA	
V - Visual score (0-5)	 Down Borehole Analysis		App'd: _____ Date: January 2004
	 Groundwater Table	Drawn: JW	Ref: _____
	 Perched Water Table	Scale: As Shown	Job No: 39991-044-785
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP122		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 11/11/03		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : JW		SCREEN TYPE & DIAM: -	
							CHECKED BY : SG		SCREEN SLOT SIZE: -	
DESCRIPTION		COMMENTS	S,V							
	WSTP122-0.4m (S,L,2xP)	☒	*1.1	0.0	Tarmac hardstanding. (MADE GROUND)	NVO	0,0			
			*1.4	0.5	Loose dark red coarse sand and ash with much fine to coarse angular gravel, cobbles, boulders and brick gravel. (MADE GROUND)					
				1.0						
	WSTP122-1.65m (S,L)	☒	*1.0	1.5	Loose brown slightly silty fine to coarse sand with much fine to coarse sub angular gravel and rare boulders and brick gravel. (MADE GROUND)	Wet.				
				1.75	Becoming grey brown at 1.70m	Faint hydrocarbon odour and discoloration from 1.6m.	1,1			
				2.0	Trial pit terminated at 1.75m due to refusal.					
				2.5						
				3.0						
				3.5						
				4.0						
				4.5						
				5.0						

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination
S,V = Contamination Observations
S - Odour score (0-5)
V - Visual score (0-5)

LEGEND

 Disturbed Sample
 Undisturbed Sample
 Headspace Analysis
 Down Borehole Analysis
 Groundwater Table
 Perched Water Table

BOREHOLE LOG

Job Title: BP Llandarcy Whole Site Investigation

Location: BP Llandarcy Refinery

Client: BP/WDA

App'd:

Date: December 2003

Drawn: JW

Ref:

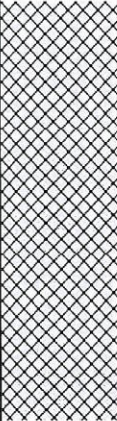
Scale: As Scale

Job No: 39991-044-785

Drg. Size: A4

BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP175		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 11/11/03		DRILLING METHODS: JCB	
							DRILLER: JCB		BOREHOLE DIAMETER: -	
							LOGGED BY: JW		SCREEN TYPE & DIAM: -	
							CHECKED BY: SG		SCREEN SLOT SIZE: -	
DESCRIPTION		COMMENTS	S,V							
	WSTP175 - 0.3m (S,L)	*2.2	0.0	Loose brown silty fine to medium sand with abundant fine to coarse angular gravel, brick, wire and rare rootlets. (MADE GROUND)	NVO.	0,0				
			0.5	Stiff grey brown clayey fine sandy SILT with some fine to coarse sub-angular gravel.	Moderate light hydrocarbon odour and discoloration and occasional black staining. Damp.	3,3				
			1.0	Medium grained SANDSTONE.						
	WSTP175 - 1.5m (S,L)	*740	1.5	Trial pit terminated at 1.7m due to refusal.	Moderate odour and staining.	3,2				
			2.0							
			2.5							
			3.0							
			3.5							
			4.0							
			4.5							
			5.0							

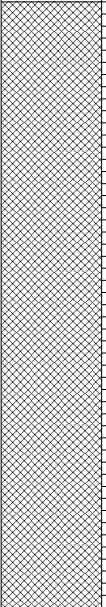
LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)	LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	BOREHOLE LOG Job Title: BP Llandarcy Whole Site Investigation Location: BP Llandarcy Refinery Client: BP/WDA 	App'd: _____ Date: January 2004 Drawn: JW Ref: _____ Scale: As Shown Job No: 39991-044-785 Drg. Size: A4 BOREHOLE LOG
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Appendix B ii

REC Geotechnical Log						Borehole: RO4		
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen		Ground Level:		Coordinates:		Date: 21/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records
					Depth	Sample Type No.	Test	
	Ground Surface	0.00		0.00	0.00			
	MADE GROUND : GRAVEL/CLAY fill.	-0.50						
	Grey SANDSTONE.							
				1.00	1.00			
				2.00	2.00			
				3.00	3.00			
				4.00	4.00			
				5.00	5.00			
				6.00	6.00			
				7.00	7.00			
			8.00	8.00				
			9.00	9.00				
		-10.10		10.00	10.00			
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes						Logged by: AD		
						Scale:		
						FIG:		

REC Geotechnical Log							Borehole: RO4		
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 21/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey SANDSTONE.								
				11.00	11.00				
				12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
				16.00	16.00				
				17.00	17.00				
				18.00	18.00				
				19.00	19.00				
		-20.20		20.00	20.00				
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes							Logged by: AD		
							Scale:		
							FIG:		

REC Geotechnical Log						Borehole: RO4			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 21/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey SANDSTONE.	-21.00							
	Grey MUDSTONE with sandstone bands.			21.00	21.00				
				22.00	22.00				
				23.00	23.00				
				24.00	24.00				
				25.00	25.00				
				26.00	26.00				
				27.00	27.00				
				28.00	28.00				
				29.00	29.00				
				30.00	30.00				
		End of Log	-30.00						
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes						Logged by: AD Scale: FIG:			

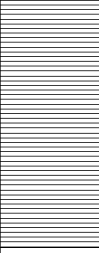
REC Geotechnical Log						Borehole: RO5			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 21/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : GRAVEL/SOIL/CLAY fill.			1.00	1.00				
				2.00	2.00				
				3.00	3.00				
				4.00	4.00				
				5.00	5.00				
	Grey SANDSTONE with mudstone bands.	-5.00		6.00	6.00				
				7.00	7.00				
				8.00	8.00				
				9.00	9.00				
		-10.10	10.00	10.00					
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes						Logged by: AD			
						Scale:			
						FIG:			

REC Geotechnical Log							Borehole: RO5		
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 21/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey SANDSTONE with mudstone bands.								
				11.00	11.00				
				12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
				16.00	16.00				
				17.00	17.00				
				18.00	18.00				
				19.00	19.00				
		-20.20		20.00	20.00				
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes							Logged by: AD		
							Scale:		
							FIG:		

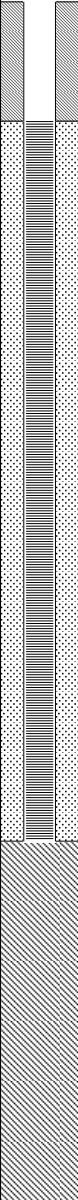
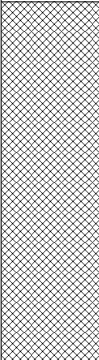
REC Geotechnical Log						Borehole: RO5			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 21/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey SANDSTONE with mudstone bands.	-21.00							
	Grey SANDSTONE with mudstone bands.								
	End of Log	-30.00							
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Notes						Logged by: AD Scale: FIG:			

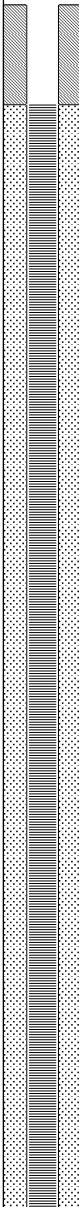
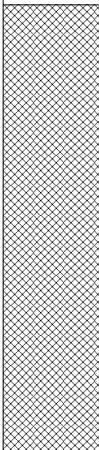
REC Geotechnical Log						Borehole: RO6			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 22/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : GRAVEL/STONE/CLAY.			1.00	1.00				
				2.00	2.00				
		-2.50							
	MADE GROUND : SANDSTONE boulder.	-3.00		3.00	3.00				
	MADE GROUND : GRAVEL/CLAY fill.			4.00	4.00				
				5.00	5.00				
		-5.50							
	Grey SANDSTONE with mudstone bands.			6.00	6.00				
				7.00	7.00				
			8.00	8.00					
			9.00	9.00					
		-10.00		10.00	10.00				
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Water encountered from 18.00m to 24.00m Notes						Logged by: AD			
						Scale:			
						FIG:			

REC Geotechnical Log						Borehole: RO6			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 22/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey SANDSTONE with mudstone bands.								
				11.00	11.00				
				12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
				16.00	16.00				
				17.00	17.00				
				18.00	18.00				
				19.00	19.00				
		-20.00		20.00	20.00				
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Water encountered from 18.00m to 24.00m Notes						Logged by: AD			
						Scale:			
						FIG:			

REC Geotechnical Log						Borehole: RO6								
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)												
Client: St Modwen		Ground Level:		Coordinates:		Date: 22/07/09								
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records						
					Depth	Sample			Test					
						Type	No.							
	Grey SANDSTONE with mudstone bands.	-21.60 -22.00		21.00	21.00									
	COAL with fine mudstone trace.			22.00	22.00									
	Grey MUDSTONE.			23.00	23.00									
	End of Log	-24.00		24.00	24.00									
				25.00	25.00									
				26.00	26.00									
				27.00	27.00									
				28.00	28.00									
				29.00	29.00									
				30.00	30.00									
				Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test					Logged by: AD					
				Remarks Water encountered from 18.00m to 24.00m					Scale:					
Notes					FIG:									

REC Geotechnical Log						Borehole: TA 1/1		
REC Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen		Ground Level:		Coordinates:		Date: 23/07/09		
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records
					Depth	Sample TypeNo.	Test	
	Ground Surface	0.00		0.00	0.00			
	MADE GROUND : CLAY/SOIL fill.			1.00	1.00			
		-1.50		2.00	2.00			
	Grey SANDSTONE with mudstone bands.			3.00	3.00			
				4.00	4.00			
				5.00	5.00			
				6.00	6.00			
				7.00	7.00			
				8.00	8.00			
				9.00	9.00			
				10.00	10.00			
		End of Log	-10.00		10.00	10.00		
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 10.00m Water encountered from 7.00m to 10.00m. Notes Oily with hydrocarbon odour from GL to 1.50m.						Logged by: AD		
						Scale:		
						FIG:		

REC Geotechnical Log						Borehole: TA 1/2		
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen		Ground Level:		Coordinates:		Date: 23/07/09		
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records
					Depth	Sample TypeNo.	Test	
	Ground Surface	0.00		0.00	0.00			
	MADE GROUND : CLAY/GRAVEL fill.			1.00	1.00			
				2.00	2.00			
		-3.00		3.00	3.00			
	Grey SANDSTONE/MUDSTONE.		4.00	4.00				
			5.00	5.00				
			6.00	6.00				
			7.00	7.00				
			8.00	8.00				
			9.00	9.00				
			-10.00		10.00	10.00		
	End of Log							
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 7.00m Water encountered from 4.50m to 10.00m, traces. Notes						Logged by: AD Scale: FIG:		

REC Geotechnical Log						Borehole: TA 1/3			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 22/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : CLAY/GRAVEL fill.			1.00	1.00				
				2.00	2.00				
				3.00	3.00				
				4.00	4.00				
		Grey SANDSTONE.	-4.50		5.00				5.00
			6.00		6.00				
			7.00		7.00				
			8.00		8.00				
			9.00		9.00				
			10.00		10.00				
			11.00		11.00				
			12.00		12.00				
End of Log		-12.00							

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

Remarks

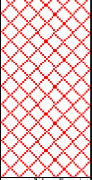
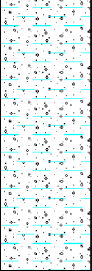
63mm diameter standpipe installed to 12.00m, response zone between 1.00m and 12.00m bgl.
Water encountered from 9.80m to 11.00m.

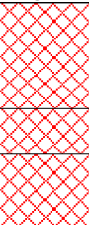
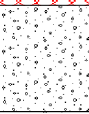
Notes

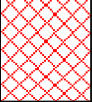
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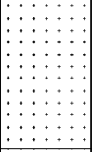
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FIG:

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271330.00 Northing: 195616.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.20		1.20	MADE GROUND: Grey sandy Gravel with brick. Light staining (2) and light hydrocarbon odour (2) PID 3.3 ppm
1.30	ES		1.80		3.00	Grey sandy gravelly CLAY. Gravel is Sandstone. Heavy staining (4) and strong hydrocarbon odour (4) 1.3m - 1.5m - PID 7.5 ppm
			0.00			Sandstone Bedrock. End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid seepage of oily water at 1.0m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 3.0m in bedrock. Light staining (2) and odour (2) between 0.3 - 1.2m. Heavy staining (4) and strong odour (4) at 1.2 - 3.0m.	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271344.00 Northing: 195614.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.70	ES		0.70		0.70	MADE GROUND: Brown sandy gravelly CLAY. Gravel is demolition rubble and metal. Light staining (2) and light hydrocarbon odour (2)
			0.30		1.00	MADE GROUND: Heavily stained black (4) sandy GRAVEL. Gravel is ash and clinker with strong hydrocarbon odour (4) 0.7m - 0.9m - PID 17 ppm
			0.50		1.50	MADE GROUND: Heavily stained yellow brown (4) sandy CLAY with strong hydrocarbon odour (4)
			0.70		2.20	Sandy GRAVEL of Sandstone with moderate staining in places (3) and strong Hydrocarbon odour (4) Sandstone bedrock End of Trial Pit at 2.20 m
			0.00			
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid water ingress at 1.0m .			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 2.2m in bedrock. Light staining (2) and light hydrocarbon odour (2) between 0.0 - 0.7m and heavy staining (4) and strong hydrocarbon odour (4) between 0.7-2.2m	

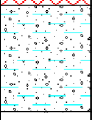
Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271356.00	
Project No: TRIALAREA1			Northing: 195613.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
			0.70		0.70	MADE GROUND Red brown gravelly SAND. Gravel is crimson ash and clinker, brick and yellow clay pockets. Light hydrocarbon staining present (2) and light hydrocarbon odour (2). Sandstone bedrock End of Trial Pit at 0.70 m
			0.00			
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of oily water at 0.7m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 0.7m due to bedrock and rapid ingress of oily water	

Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271354.00	
Project No: TRIALAREA1			Northing: 195593.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.60		0.60	MADE GROUND Red brown gravelly SAND. Gravel is brick, Re-bar, Crimson clinker and ash and clay pockets. 0.4m - 0.6m - PID 17.2 ppm
			1.00			Sandstone bedrock (weathered) with slight sheen on gravel
					1.60	End of Trial Pit at 1.60 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of water with oily sheen at 0.8m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.6m due to bedrock. Sporadic staining (1) and faint hydrocarbon odour (1) from 0 - 1.6m.	

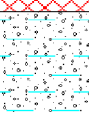
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271339.00 Northing: 195596.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.30		0.30	MADE GROUND Brown gravelly SAND with faint staining and odour (1,1). Gravel is demolition rubble. Yellow brown sand lense occurs at 0.2m 0.1m - 0.3m - PID 11.5 ppm MADE GROUND Red brown sandy GRAVEL. Gravel is clinker and ash. Faint hydrocarbon odour (1) Grey clayey sandy gravel of sandstone heavily stained (4) with strong hydrocarbon odour (4) Sandstone Bedrock End of Trial Pit at 0.90 m
			0.10		0.40	
			0.50			
			0.00		0.90	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of oily water at 0.8m			Stability: Trial Pit unstable at 0.8m.		General Remarks: Pit terminated at 0.9m due to bedrock. Heavy staining between 0.4 - 0.9m.	

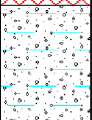
Site: Coed Darcy Urban Village				Start Date: 18/02/2009		Site Level (mAOD): -		
Client: St Modwen				End Date: 18/02/2009		Easting: 271324.00		
Project No: TRIALAREA1				Northing: 195601.00				
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:		
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210		
						Shoring/Support: None		
Samples & Tests			Strata Details					
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description		
			0.30		0.30	MADE GROUND Brown sandy gravelly CLAY. Gravel is demolition rubble and brick		
			0.30					
			0.00			0.60	MADE GROUND Occasionally stained (2) red brown gravelly SAND with cobbles and boulders of sandstone and occasional yellow brown pockets of clay. Light hydrocarbon odour noted (2). Sandstone Bedrock	
End of Trial Pit at 0.60 m								
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.								
Groundwater Observations: Water ingress at 0.6m			Stability: Trial Pit collapsing at 0.6m			General Remarks: Pit terminated at 0.6m due to bedrock, water ingress and pit collapsing at 0.6m. Lightly stained (2) and light hydrocarbon odour at 0 - 0.6m		

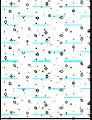
Site: Coed Darcy Urban Village				Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen				End Date: 18/02/2009		Easting: 271323.00	
Project No: TRIALAREA1						Northing: 195574.00	
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.30 0.00		0.30	MADE GROUND Brown / Red Brown sandy GRAVEL. Gravel is brick and crimson clinker and ash. 0.2m - 0.3m - PID 8.5 ppm Sandstone bedrock which is lightly stained (1) End of Trial Pit at 0.30 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Trial Pit was stable.			General Remarks: Pit terminated at 0.3 in bedrock.	

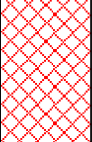
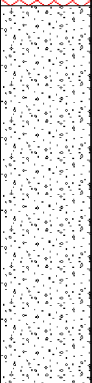
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271339.00 Northing: 195573.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.70		0.70	MADE GROUND Heavily stained (3) yellow orange brown gravelly SAND. Gravel is brick and sandstone 0.4m - 0.6m - PID 152 ppm
1.20	ES		0.70		1.40	Grey brown sandy gravelly clay. Gravel is sandstone. Heavily stained (4) and strong hydrocarbon odour (4) 1.2m - 1.4m - PID 53.7 ppm Sandstone bedrock End of Trial Pit at 1.40 m
			0.00			
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water and product mix ingress at 1.4m			Stability: Pit becoming unstable at 1.4m		General Remarks: Pit terminated at 1.4m in bedrock and due to water and product mix ingress leading to pit instability. Moderate to heavy stained (4) and strong odours (4) from 0.4 - 1.4m	

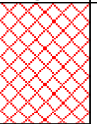
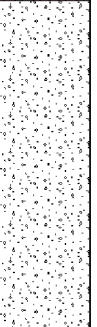
Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271354.00	
Project No: TRIALAREA1			Northing: 195572.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.60	ES		0.60		0.60	MADE GROUND Red brown gravelly SAND. Gravel is clinker and brick
			0.50			Brown clayey sandy gravel. Gravel is heavily stained in places (3) sandstone with a light hydrocarbon odour (3)
			0.00		1.10	0.6m - 0.8m - PID 11.8 ppm Sandstone bedrock End of Trial Pit at 1.10 m
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.1m in bedrock and due to pit collapse. Moderate staining (3) in places and hydrocarbon odour (2) at 0.6 - 1.1m	

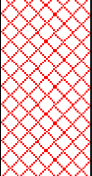
Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271351.00	
Project No: TRIALAREA1			Northing: 195555.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.80			MADE GROUND red brown crimson clinker, brick, sandstone and metal with pockets of yellow sand. 0.3m - 0.5m - PID 44 ppm
0.90	ES		0.70		0.80	Grey / black (stained (3)) clayey sandy gravel. Gravel is sandstone. Moderate hydrocarbon odour (3) 0.9m - 1.1m - PID 41.1 ppm
			0.00		1.50	Sandstone bedrock End of Trial Pit at 1.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.5m in bedrock. Moderate staining and hydrocarbon odour (3,3) from 0.8m	

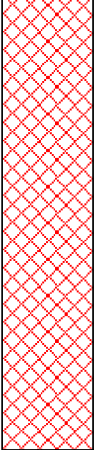
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271336.00 Northing: 195555.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.70		0.70	MADE GROUND Grey brown gravelly SAND. Gravel is metal re-bars. Straw yellow product present with moderate odour (3) 0.5m - 0.7m - PID 187 ppm
			0.80			Grey clayey sandy GRAVEL. Gravel is flags of sandstone
			0.00		1.50	Sandstone bedrock End of Trial Pit at 1.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water covered in yellow straw product at 0.7m			Stability: Pit stable		General Remarks: Pit terminated at 1.2m in bedrock.	

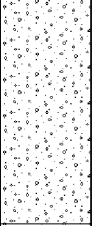
Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271322.00	
Project No: TRIALAREA1			Northing: 195557.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.60		0.60	MADE GROUND Grey brown gravelly SAND. Gravel is demolition rubble. Light staining (2) and light hydrocarbon odour (2)
0.90	ES		0.80			0.4m - 0.6m - PID 45.5 ppm
			0.00		1.40	light brown/ grey sandy gravelly CLAY. Gravel is cobbles of sandstone. Product visible on gravel (5) and strong hydrocarbon odour (5)
						0.9m - 1.1m - PID 77.1 ppm
						Sandstone bedrock
						End of Trial Pit at 1.40 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of product at 0.6m.			Stability: Pit stable		General Remarks: Pit terminated at 1.4m in bedrock. Visible product (5) and strong hydrocarbon odour (5) at 0.6m.	

Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271326.00	
Project No: TRIALAREA1			Northing: 195536.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00		1.00	MADE GROUND Brown gravelly SAND. Heavy staining (4) and hydrocarbon odour (4) 0.5m - 0.7m - PID 84.3 ppm
1.50	ES					Brown grey gravelly SAND. Gravel is sandstone. Moderate staining (3) and hydrocarbon odours (3) 1.5m - 1.7m - PID 19.1 ppm
			2.50			
			0.00		3.50	Sandstone bedrock End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 3.5m in bedrock . Viscous black product entering the pit at 0.4m. Moderate staining (3) and strong hydrocarbon odours (4) throughout the pit	

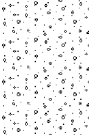
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 18/02/2009 End Date: 18/02/2009		Site Level (mAOD): - Easting: 271338.00 Northing: 195537.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.80		0.80	MADE GROUND Brown gravelly SAND. Gravel is demolition rubble and crimson clinker. Moderate staining and hydrocarbon odour (3,3) 0.2m - 0.4m - PID 64.8 ppm
1.20	ES		2.20			Brown gravelly SAND. Gravel is flags of sandstone. Light staining and Hydrocarbon odour (2,2) 1.2m - 1.4m - PID 34.2 ppm
			0.00		3.00	Sandstone bedrock End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress with product on surface at 0.6m.			Stability: Pit stable		General Remarks: Pit terminated at 3.0m in bedrock. Moderate staining and hydrocarbon odour (3,3) throughout pit	

Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271350.00	
Project No: TRIALAREA1					Northing: 195538.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.60	ES		1.20		1.20	MADE GROUND Red brown gravelly SAND. Gravel is brick, cement, clinker, slag and ash. Light staining and odour (2,2) 0.6m - 0.8m - PID 9.1 ppm
1.60	ES		1.80			Brown grey gravelly SAND. Gravel is sandstone flags. Light staining and hydrocarbon odour (2,2) 1.6m - 1.8m - PID 11.3 ppm
			0.00		3.00	Sandstone bedrock End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 3.0m in bedrock. Light staining and odour throughout pit (2,2)	

Site: Coed Darcy Urban Village				Start Date: 18/02/2009		Site Level (mAOD): 0.000	
Client: St Modwen				End Date: 18/02/2009		Easting: 271280.00	
Project No: TRIALAREA1						Northing: 195526.00	
Trial Pit Length (m): 0.00				Trial Pit Width (m): 0.00		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.70	ES		3.00			MADE GROUND Dark gravelly SAND. Gravel is demolition rubble. Heavy staining (4) and strong hydrocarbon odours (4) throughout the pit 0.7m - 0.9m - PID 15.2 ppm	
					3.00	End of Trial Pit at 3.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 3.0m due to collapse.	

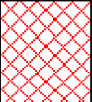
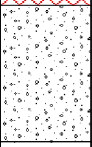
Site: Coed Darcy Urban Village			Start Date: 18/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 18/02/2009		Easting: 271296.00	
Project No: TRIALAREA1					Northing: 195523.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.70	ES		0.50		0.50	MADE GROUND brown sandy gravel. Gravel is demolition rubble
			1.50			Brown sandy gravel. Gravel is sandstone flags. Heavily stained and very strong hydrocarbon odour (5,5) 0.7m - 0.9m - PID 194 ppm
					2.00	End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Heavy product seepage at 0.6m.			Stability: Pit stable		General Remarks: Pit terminated at 2.0m in bedrock . Heavy product seepage at 0.6m. Heavy staining and odour (5,5) from 0.5m	

Site: Coed Darcy Urban Village				Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen				End Date: 19/02/2009		Easting: 271298.00	
Project No: TRIALAREA1						Northing: 195543.00	
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.70		0.70	MADE GROUND Brown gravelly SAND. Gravel is demolition rubble	
			0.55			CONCRETE	
						End of Trial Pit at 0.70 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.7m on concrete obstruction.	

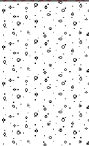
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271283.00 Northing: 195551.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES		0.50		0.50	MADE GROUND Brown slightly clayey gravelly SAND. Gravel is concrete, long metal bars, wood, brick and slag. Very light staining and faint odour (1,1) 0.3m - 0.5m - PID 4.6 ppm	
			0.90		1.40	Stained black sandy GRAVEL. Gravel is sandstone. Heavy staining occurs and strong hydrocarbon odours are noted (4,4) Sandstone bedrock End of Trial Pit at 1.40 m	
			0.00				
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Pit stable		General Remarks: Pit terminated at 1.4m in bedrock. Heavy staining and odours from 0.5m (4,4)	

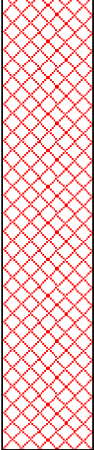
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271284.00 Northing: 195567.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.20 0.00		0.20	MADE GROUND Brown and black stained (2) gravelly SAND. Gravel is brick CONCRETE End of Trial Pit at 0.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.2m in concrete.	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271302.00 Northing: 195566.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.50		0.50	MADE GROUND Grey gravelly SAND. Gravel is demolition rubble. Moderate staining and hydrocarbon odours (3,3) 0.2m - 0.4m - PID 10.4 ppm	
			0.10		0.60	Dark grey sandy GRAVEL. Gravel is sandstone with moderate staining (3) and hydrocarbon odours (3) Sandstone bedrock End of Trial Pit at 0.60 m	
			0.00				
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.6m in bedrock. Moderate staining (3) and hydrocarbon odours (3) throughout the pit	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271303.00 Northing: 195587.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.70		0.70	MADE GROUND Brown lightly stained (2) grey gravelly sandy CLAY. Gravel is brick
						0.5m - 0.7m - PID 9.3 ppm
			0.90			Grey stained black (4) sandy GRAVEL. Gravel is sandstone. Strong hydrocarbon odours (5)
			0.00		1.60	Sandstone bedrock
						End of Trial Pit at 1.60 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.6m in bedrock. Heavy staining (4) and strong hydrocarbon odours (5) from 0.7m	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271287.00	
Project No: TRIALAREA1			Northing: 195592.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.70		0.70	MADE GROUND Grey clayey gravelly SAND. Gravel is brick, metal, clay pipe. Light staining (2) and light hydrocarbon odours (2) 0.4m - 0.6m - PID 4.4 ppm
			0.50		1.20	Grey stained (2) sandy GRAVEL. Gravel is sandstone. Light hydrocarbon odours (2)
			0.00			Sandstone bedrock
						End of Trial Pit at 1.20 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Light groundwater seepage at 0.3m			Stability: Pit stable		General Remarks: Pit terminated at 1.2m in bedrock. Light staining (2) and hydrocarbon odours (2) throughout the pit.	

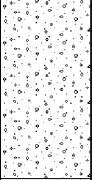
Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271291.00	
Project No: TRIALAREA1					Northing: 195606.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.70	ES		2.00			MADE GROUND Grey/brown stained (3) clayey gravelly SAND. Gravel is demolition rubble. Moderate hydrocarbon odours (3) 0.7m - 0.9m - PID 24 ppm
			1.00		2.00	Grey stained (2) sandy GRAVEL. Gravel is sandstone.
			0.00		3.00	Sandstone bedrock End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 3.0m in bedrock. Moderate staining (3) and hydrocarbon odours (3) till 2.0m.	

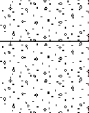
Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271309.00	
Project No: TRIALAREA1			Northing: 195604.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.60	ES		3.00		3.00	MADE GROUND Brown stained gray (3) clayey gravelly SAND. Gravel is demolition rubble and sandstone flags. Moderate hydrocarbon odours (3) 0.6m - 0.8m - PID 5.1 ppm
						End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit unstable at 3.0m		General Remarks: Pit terminated at 3.0m due to instability. Moderate staining (3) and hydrocarbon odour (3) throughout.	

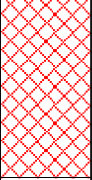
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1			Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271269.00 Northing: 195618.00	
Trial Pit Length (m): - Logged By: Alex Mann			Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.60		0.60	MADE GROUND Red/yellow/brown gravelly SAND. Gravel is slag, clinker and brick. Solvent odour present (4) 0.2m - 0.5m - PID 326 ppm
			0.60			Grey stained (2) sandy GRAVEL. Gravel is sandstone.
			0.00		1.20	Sandstone bedrock End of Trial Pit at 1.20 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.2m in bedrock. Moderate staining (2) and Solvent odours (4)	

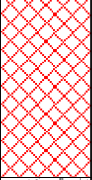
Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271266.00	
Project No: TRIALAREA1			Northing: 195600.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.40		0.40	MADE GROUND Brown clayey gravelly SAND. Gravel is brick, metal and clinker. Solvent odour present (4) 0.1m - 0.3m - PID 16.1 ppm
			0.40		0.80	
						Brown sandy GRAVEL. Gravel is sandstone.
						End of Trial Pit at 0.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of oily water at 0.8m			Stability: Pit unstable at 0.8m		General Remarks: Pit terminated at 0.8m due to collapse of pit. Solvent odours present (2).	

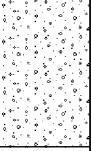
Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271259.00	
Project No: TRIALAREA1			Northing: 195576.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.60	ES		0.80		0.80	MADE GROUND Brown with crimson clinker and ash gravelly SAND. Gravel is brick, cement, slag and roadstone. Light staining (2) and light solvent odours (2) 0.6m - 0.8m - PID 8.3 ppm
			0.40		1.20	Heavily stained black (4) sandy GRAVEL. Gravel is sandstone. Moderate hydrocarbon odours (3)
			0.00			Sandstone bedrock End of Trial Pit at 1.20 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.2m in bedrock. Moderate staining (2), Solvent odours (2) and hydrocarbon odours (3)	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271254.00	
Project No: TRIALAREA1			Northing: 195556.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.90	ES		0.20		0.20	MADE GROUND Brown gravelly clayey SAND. Gravel is demolition rubble
			1.20			Stained brown (2) sandy GRAVEL with light brown clay pockets. Gravel is sandstone. Heavily stained in places (4) with Moderate hydrocarbon odours (3) 0.9m - 1.1m - PID 52.7 ppm
					1.40	End of Trial Pit at 1.40 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit unstable at 1.4m		General Remarks: Pit terminated at 1.4m due to pit collapse. Heavily stained (4) in places from 0.2m with strong hydrocarbon odours (4) and solvents (1). ingress of black product at 0.4m and straw coloured product at 1.0m	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271249.00	
Project No: TRIALAREA1			Northing: 195538.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.70		0.70	MADE GROUND Red brown gravelly SAND. Gravel is brick, ash, clinker and metal. 0.3m-0.5m - PID 4.3 ppm
			1.00		1.20	Grey brown gravelly SAND with patches of yellow brown sandy gravel. Gravel is sandstone 0.3m-0.5m - PID 4.3 ppm End of Trial Pit at 1.20 m
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit unstable at 1.2m		General Remarks: Pit terminated at 1.2m due to pit collapse. Sporadic staining and trace of hydrocarbon odours (1,1)	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271234.00	
Project No: TRIALAREA1			Northing: 195541.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.60	ES		1.20		1.20	MADE GROUND Brown with red crimson pockets of gravelly SAND. Gravel is clinker and ash. Occasional pockets of yellow brown clay 0.6m-0.8m - PID 3.9 ppm
			0.00			Sandstone bedrock End of Trial Pit at 1.20 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.2m in bedrock. Light staining and light hydrocarbon odours (2,2)	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271236.00	
Project No: TRIALAREA1			Northing: 195560.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.20			MADE GROUND Brown with red crimson pockets of gravelly SAND. Gravel is clinker and ash 0.5m-0.7m - PID 9.9 ppm
1.30	ES		0.40		1.20	Grey brown heavily stained (4) clayey sandy GRAVEL. Gravel is sandstone. Strong Hydrocarbon (4) present. 1.3m-1.6m - PID 73.6 ppm Sandstone bedrock End of Trial Pit at 1.60 m
			0.00		1.60	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of black product and water mix at 1.5m			Stability: Pit unstable at 1.5m		General Remarks: Pit terminated at 1.6m in bedrock. Heavy staining and strong hydrocarbon odours (4,4) from 1.2m. Straw product ingress at 1.0m and black product water mix at 1.5m.	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271241.00	
Project No: TRIALAREA1					Northing: 195581.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		1.00		1.00	Brown sandy GRAVEL. Gravel is flags of sandstone with light hydrocarbon odour (1) 0.2m-0.4m - PID 2.6 ppm
			0.00			Sandstone bedrock End of Trial Pit at 1.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.0m in bedrock. Light hydrocarbon odour (1).	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271247.00	
Project No: TRIALAREA1			Northing: 195602.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.70	ES		0.60		0.60	MADE GROUND Brown gravelly SAND. Gravel is roadstone and brick
			0.40		0.60	Yellow brown sandy GRAVEL. Gravel is flags of sandstone with light hydrocarbon odour (1)
			0.00		1.00	0.7m-0.9m - PID 2.4 ppm Sandstone bedrock End of Trial Pit at 1.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.0m in bedrock. Light hydrocarbon odour (1).	

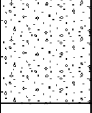
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271251.00 Northing: 195621.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.10		0.10	Brown gravelly SAND.	
			0.20		0.30	Black slightly sandy GRAVEL. Gravel is heavily stained (4) sandstone flags. Strong hydrocarbon odour noted (4) Sandstone bedrock End of Trial Pit at 0.30 m	
			0.00				
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Pit stable		General Remarks: Pit terminated at 0.3m in bedrock. Band of heavy staining (4) and strong hydrocarbon odours (4).	

Site: Coed Darcy Urban Village				Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen				End Date: 19/02/2009		Easting: 271229.00	
Project No: TRIALAREA1				Northing: 195603.00			
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES		0.50 0.00		0.50	MADE GROUND brown gravelly SAND. Gravel is sandstone, brick, cement, ash and clinker 0.3m-0.5m - PID 1.5 ppm Sandstone bedrock End of Trial Pit at 0.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.5m in bedrock.	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 19/02/2009 End Date: 19/02/2009		Site Level (mAOD): - Easting: 271230.00 Northing: 195584.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.50		0.50	MADE GROUND brown gravelly SAND. Gravel is sandstone, brick, cement, ash and clinker Sandstone bedrock End of Trial Pit at 0.50 m	
			0.00				
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Pit stable		General Remarks: Pit terminated at 0.5m in bedrock.	

Site: Coed Darcy Urban Village			Start Date: 19/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 19/02/2009		Easting: 271226.00	
Project No: TRIALAREA1			Northing: 195562.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.30		0.30	MADE GROUND brown gravelly SAND. Gravel is clinker, ash and roadstone
			1.10			Orange brown with grey patches of gravelly SAND 0.5m-0.7m - PID 1.8 ppm
			0.00		1.40	Sandstone bedrock End of Trial Pit at 1.40 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Pit stable		General Remarks: Pit terminated at 1.4m in bedrock.	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 20/02/2009 End Date: 20/02/2009		Site Level (mAOD): - Easting: 271360.00 Northing: 195665.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.40	ES		0.70 0.00		0.70	Brown gravelly SAND. Gravel is sandstone 0.4m-0.6m - PID 1.1 ppm Sandstone bedrock End of Trial Pit at 0.70 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.7m in bedrock.	

Site: Coed Darcy Urban Village			Start Date: 20/02/2009		Site Level (mAOD): -	
Client: St Modwen			End Date: 20/02/2009		Easting: 271340.00	
Project No: TRIALAREA1			Northing: 195663.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu PC210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.60		0.60	MADE GROUND brown clayey gravelly SAND. Gravel is concrete 0.4m-0.6m - PID 14 ppm
			0.70			Lightly stained grey (2) gravelly SAND with light hydrocarbon odour (2). Gravel is sandstone
			0.00		1.30	Sandstone bedrock End of Trial Pit at 1.30 m
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Groundwater seepage at 0.5m			Stability: Pit stable		General Remarks: Pit terminated at 1.3m in bedrock. Light staining (2) and light hydrocarbon odour from 0.6m.	

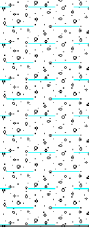
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 20/02/2009 End Date: 20/02/2009		Site Level (mAOD): - Easting: 271323.00 Northing: 195664.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES		0.60		0.60	MADE GROUND brown clayey gravelly SAND. Gravel is concrete, clinker and brick 0.3m-0.5m - PID 1.8 ppm	
1.10	ES		1.40			Lightly stained brown (1) gravelly SAND with grey clay pockets. Gravel is sandstone 1.1m-1.3m - PID 1.8 ppm	
			0.00		2.00	Sandstone bedrock End of Trial Pit at 2.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Pit stable		General Remarks: Pit terminated at 2.0m in bedrock. Light staining (1) from 0.6m.	

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 20/02/2009 End Date: 20/02/2009		Site Level (mAOD): - Easting: 271295.00 Northing: 195665.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.40		0.40	MADE GROUND brown gravelly SAND. Gravel is demolition rubble and asbestos sheeting 0.1m-0.3m - PID 0.6 ppm Orange brown sandy GRAVEL. Gravel is sandstone Sandstone bedrock End of Trial Pit at 0.50 m	
			0.10		0.50		
			0.00				
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Pit stable		General Remarks: Pit terminated at 0.5m in bedrock.	

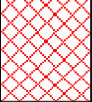
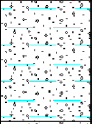
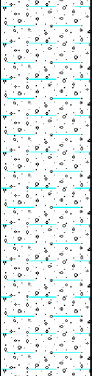
Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 20/02/2009 End Date: 20/02/2009		Site Level (mAOD): - Easting: 271272.00 Northing: 195669.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.10 0.00	XXXXXX	0.10	MADE GROUND brown gravelly SAND. Gravel is demolition rubble Sandstone bedrock End of Trial Pit at 0.10 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.1m in bedrock.	

Site: Coed Darcy Urban Village				Start Date: 20/02/2009		Site Level (mAOD): -									
Client: St Modwen				End Date: 20/02/2009		Easting: 271249.00									
Project No: TRIALAREA1						Northing: 195676.00									
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:									
Logged By: Alex Mann				Checked By:		Plant: Komatsu PC210									
						Shoring/Support: None									
Samples & Tests			Strata Details												
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description									
			0.05		0.05	Sandstone bedrock									
						End of Trial Pit at 0.05 m									
								General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.05m in bedrock.									

Site: Coed Darcy Urban Village Client: St Modwen Project No: TRIALAREA1				Start Date: 20/02/2009 End Date: 20/02/2009		Site Level (mAOD): - Easting: 271234.00 Northing: 195681.00									
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Komatsu PC210 Shoring/Support: None									
Samples & Tests				Strata Details											
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description									
			0.05		0.05	Sandstone bedrock End of Trial Pit at 0.05 m									
								General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Pit stable			General Remarks: Pit terminated at 0.05m in bedrock.									

Site: Coed Darcy		Start Date: 29/05/2009		Ground Level: -	
Client: St. Modwen		End Date: 29/05/2009		Easting: 271370.000	
Project No: TRIALAREA2				Northing: 195545.000	
Site National Grid Reference: 271418.500 , 195575.000		Excavation Method:			
Site Level (mOD): 0.000		Plant: Komatsu PC210			
Logged By: Alex Mann		Checked By:		Trial Pit Length: -	
				Trial Pit Width: -	
Samples & Tests			Strata Details		
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Description
0.60 0.70	ES		0.30		0.30 MADE GROUND: Brown sandy gravel of demolition rubble
			0.30		0.60 MADE GROUND: Red and black clinker bands.
			0.40		1.00 Weathered SANDSTONE. Recovered as Brown stained grey (3) with moderate hydrocarbon odour (3) clayey sandy gravel of sandstone.
1.50 1.60	ES		1.50		Weathered SANDSTONE. Brown clayey sandy gravel of sandstone. Increasing cobbles of sandstone at depth.
					2.50
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.					
Groundwater Observations: Slight water ingress with oily sheen at 0.5m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 2.5m. Slight Product ingress at 0.45m.

Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271385.000
Project No: TRIALAREA2	Excavation Method:	Northing: 195540.000
Site National Grid Reference: 271418.500 , 195575.000	Plant: Komatsu PC210	
Site Level (mOD): 0.000	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: - Trial Pit Width: -

Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
1.10	1.20	ES	0.70		0.70	MADE GROUND: Brown clayey gravelly SAND. Gravel is sandstone and demolition rubble.
			0.80		1.50	Brown occasionally stained grey (2) with light hydrocarbon odour (2) clayey gravelly SAND. Gravel is sandstone flags.
			2.50			Weathered SANDSTONE. Recovered as a brown clayey sandy GRAVEL of sandstone with orange brown clay pockets.
					4.00	End of Trial Pit at 4.00 m

General Notes:

- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:

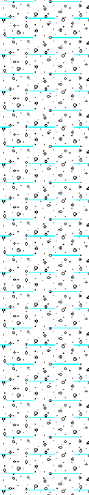
Water seepage at 0.7m

Stability:

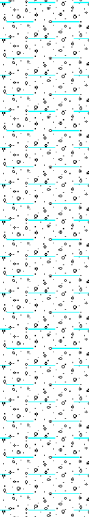
Trial Pit was stable.

General Remarks:

Pit terminated at 4.0m.

Site: Coed Darcy Client: St. Modwen Project No: TRIALAREA2				Start Date: 29/05/2009 End Date: 29/05/2009		Ground Level: - Easting: 271379.000 Northing: 195549.000	
Site National Grid Reference: 271418.500 , 195575.000 Site Level (mOD): 0.000				Excavation Method: Plant: Komatsu PC210 Shoring/Support:			
Logged By: Alex Mann			Checked By:		Trial Pit Length: -		Trial Pit Width: -
Samples & Tests			Strata Details				
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description	
0.60	0.70	ES	0.40		0.40	MADE GROUND Brown gravelly sand. Gravel is demolition rubble.	
			0.15		0.55	MADE GROUND: Crimson/red clinker band	
1.80	1.90	ES	3.45			Weathered SANDSTONE: Recovered as Brown occasionally stained grey (2) with light hydrocarbon odour (2) gravel of sandstone flags with grey/orange pockets of clay.	
					4.00	End of Trial Pit at 4.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress at 3.0m			Stability: Trial Pit was stable.			General Remarks: Pit terminated at 4.0m. Yellow straw product seen at 0.5m. Light product seepage at 0.7m.	

Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271411.000
Project No: TRIALAREA2		Northing: 195547.000
Site National Grid Reference: 271418.500 , 195575.000	Excavation Method:	
Site Level (mOD): 0.000	Plant: Komatsu PC210	
	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: -
		Trial Pit Width: -

Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.70	0.80	ES	0.20		0.20	MADE GROUND Brown gravelly sand. Gravel is demolition rubble
			0.10		0.30	MADE GROUND: Red clinker band
			3.70			Weathered SANDSTONE: Recovered as a brown occasionally stained (1) with very faint hydrocarbon odour (1) clayey sandy Gravel of sandstone.
					4.00	End of Trial Pit at 4.00 m

General Notes:

- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:

Seepage at 1.0m. Water at base of pit, with sheen and hydrocarbon odour (3)

Stability:

Trial Pit was stable.

General Remarks:

Pit terminated at 4.0m.

Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271467.000
Project No: TRIALAREA2		Northing: 195571.000
Site National Grid Reference: 271418.500 , 195575.000	Excavation Method:	
Site Level (mOD): 0.000	Plant: Komatsu PC210	
	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: -
		Trial Pit Width: -

Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.30	0.40	ES	0.40		0.40	MADE GROUND: Brown with stained black band (3) of gravelly sand. Gravel is demolition rubble and sandstone
			0.60			Weathered Sandstone. Recovered as brown sandy gravel of angular sandstone
			0.00		1.00	SANDSTONE BEDROCK
						End of Trial Pit at 1.00 m

General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:

Water seepage at 0.4m

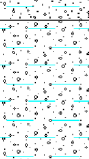
Stability:

Trial Pit was stable.

General Remarks:

Pit terminated at 1.0m in bedrock.

Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271436.000
Project No: TRIALAREA2	Excavation Method:	Northing: 195570.000
Site National Grid Reference: 271418.500 , 195575.000	Plant: Komatsu PC210	
Site Level (mOD): 0.000	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: - Trial Pit Width: -

Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.70 0.80	ES		0.50		0.50	MADE GROUND Brown gravelly sand. Gravel is demolition rubble.
			0.05		0.55	MADE GROUND. Black clinker band
			0.75			Orange brown gravelly SAND. Gravel is sandstone
			1.00		1.30	Weathered SANDSTONE. Recovered as brown clayey sandy gravel of sandstone flags
			0.00		2.30	SANDSTONE BEDROCK
						End of Trial Pit at 2.30 m

General Notes:

- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:

Water seepage at 1.3m with oily sheen

Stability:

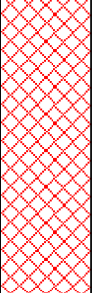
Trial Pit was stable.

General Remarks:

Pit terminated at 2.3m in bedrock.

Site: Coed Darcy Client: St. Modwen Project No: TRIALAREA2				Start Date: 29/05/2009 End Date: 29/05/2009		Ground Level: - Easting: 271464.000 Northing: 195592.000		
Site National Grid Reference: 271418.500 , 195575.000 Site Level (mOD): 0.000				Excavation Method: Plant: Komatsu PC210 Shoring/Support:				
Logged By: Alex Mann			Checked By:		Trial Pit Length: -		Trial Pit Width: -	
Samples & Tests				Strata Details				
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description		
0.50 0.60	ES		2.00			MADE GROUND Brown clayey gravelly sand stained grey (2) with light hydrocarbon odour (2). Gravel is demolition rubble, sandstone and quartz.		
1.80 1.90	ES		0.50		2.00	Orange Brown sandy gravelly CLAY. Gravel is sandstone		
					2.50	End of Trial Pit at 2.50 m		
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.								
Groundwater Observations: Water seepage at 1.5m			Stability: Trial Pit was stable.			General Remarks: Pit terminated at 2.5m .		

Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271436.000
Project No: TRIALAREA2	Excavation Method:	Northing: 195586.000
Site National Grid Reference: 271418.500 , 195575.000	Plant: Komatsu PC210	
Site Level (mOD): 0.000	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: -
		Trial Pit Width: -

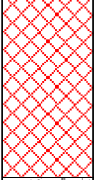
Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.60 0.70	ES		2.00			MADE GROUND: Brown stained grey in place (2) with light hydrocarbon odour (2) clayey gravelly SAND. Gravel is demolition rubble and sandstone
			0.30		2.00 2.30	Orange brown sandy gravelly CLAY. Gravel is sandstone
						End of Trial Pit at 2.30 m

General Notes:

- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:	Stability: Pit stable	General Remarks: Pit terminated at 2.3m
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Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 29/05/2009	Easting: 271436.000
Project No: TRIALAREA2	Excavation Method:	Northing: 195605.000
Site National Grid Reference: 271418.500 , 195575.000	Plant: Komatsu PC210	
Site Level (mOD): 0.000	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: -
		Trial Pit Width: -

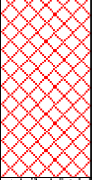
Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.50 0.60	ES		1.20		1.20	Brown clayey gravelly SAND. Gravel is demolition rubble and sandstone
			0.60		1.80	Weathered SANDSTONE: Recovered as Brown clayey sandy gravel. Gravel is sandstone
			0.00		1.80	Sandstone bedrock
						End of Trial Pit at 1.80 m

General Notes:

- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:	Stability: Pit stable	General Remarks: Pit terminated at 1.8m in bedrock.
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Site: Coed Darcy	Start Date: 29/05/2009	Ground Level: -
Client: St. Modwen	End Date: 03/03/2009	Easting: 271416.000
Project No: TRIALAREA2		Northing: 195594.000
Site National Grid Reference: 271418.500 , 195575.000	Excavation Method:	
Site Level (mOD): 0.000	Plant: Komatsu PC210	
	Shoring/Support:	
Logged By: Alex Mann	Checked By:	Trial Pit Length: -
		Trial Pit Width: -

Samples & Tests			Strata Details			
Depth (m)	Type	HSV (m-kPa)	Thk	Legend	Depth	Description
0.50 0.60	ES		1.20			MADE GROUND: Brown clayey gravelly SAND. Gravel is demolition rubble and sandstone.
			0.30		1.20	Brown clayey gravelly SAND. Gravel is sandstone
			0.30		1.50	Orange brown very sandy gravelly CLAY. Gravel is sandstone
					1.80	End of Trial Pit at 1.80 m

General Notes:

1. All linear dimensions are in metres unless otherwise stated
2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations:

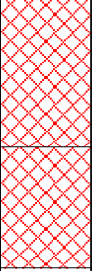
Stability:
Pit stable

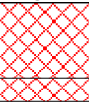
General Remarks:
Pit terminated at 1.8m

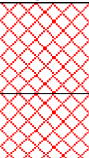
Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271509.00	
Project No: MTV				Northing: 195714.00			
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.75			MADE GROUND: Grey clayey gravelly SAND. Coarse gravel of sandstone and brick. Frequent cobbles of sandstone (1,1).	
0.70	ES		0.05		0.75 0.80	Sandstone Bedrock End of Trial Pit at 0.80 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Slight water ingress at 0.8m			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271510.00 Northing: 195687.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.35 0.05		0.35 0.40	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0) Sandstone Bedrock End of Trial Pit at 0.40 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Slight water ingress at 0.4m			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271471.00	
Project No: MTV						Northing: 195709.00	
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.35 0.05		0.35 0.40	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0) Sandstone Bedrock End of Trial Pit at 0.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271435.00	
Project No: MTV			Northing: 195722.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00		1.00	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)
1.50	ES		0.80		1.80	MADE GROUND: Grey (1,1) gravelly clay SAND. Gravel of sandstone cobbles (Reworked Natural)
						End of Trial Pit at 1.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 1.6m			Stability: Collapsed at 1.4m		General Remarks: Pit terminated due to collapse	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271433.00 Northing: 195702.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.50			MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)	
0.50	ES		0.15		0.50	MADE GROUND: Grey/brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)	
			0.05		0.65	Sandstone Bedrock	
					0.70	End of Trial Pit at 0.70 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Stable		General Remarks: Pit terminated on bedrock	

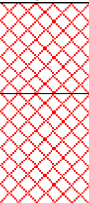
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271403.00 Northing: 195719.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.60			MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)	
0.80	ES		0.45		0.60	MADE GROUND: Grey gravelly clayey SAND. Coarse gravel of sandstone and brick (1,1)	
			0.05		1.05 1.10	Sandstone Bedrock End of Trial Pit at 1.10 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress at 1.0m				Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271381.00 Northing: 195730.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.30		0.30	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)	
0.40	ES		0.15		0.45	MADE GROUND: Stained grey (3,1) clayey gravelly SAND. Coarse gravel of concrete and sandstone	
			0.05		0.50	Sandstone Bedrock End of Trial Pit at 0.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271379.00	
Project No: MTV						Northing: 195697.00	
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.45		0.45	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)	
			0.05		0.50	Sandstone Bedrock	
End of Trial Pit at 0.50 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271350.00	
Project No: MTV			Northing: 195720.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		1.15			MADE GROUND: light brown gravelly slightly clayey SAND. Coarse gravel of brick and frequent sandstone cobbles (0,0)
0.90	ES		0.05		1.15 1.20	
						Sandstone Bedrock
						End of Trial Pit at 1.20 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Stable		General Remarks: Pit terminated on bedrock	

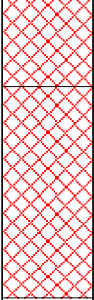
Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271326.00	
Project No: MTV			Excavation Method:			
Trial Pit Length (m): -		Trial Pit Width (m): -		Plant: Volvo 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.40		0.40	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)
1.30	ES		1.45			MADE GROUND: Locally stained grey (1,1) brown gravelly clayey SAND. Coarse gravel of brick and sandstone. Occasional plastic and textile sheeting.
			0.05		1.85 1.90	Sandstone Bedrock End of Trial Pit at 1.90 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 1.8m			Stability: Stable		General Remarks: Pit terminated on bedrock	

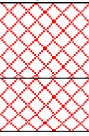
Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271318.00	
Project No: MTV			Northing: 195704.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.60		0.60	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of sandstone and brick (0,0)
1.20	ES		0.75			MADE GROUND: Locally stained grey (1,1) brown gravelly clayey SAND. Coarse gravel of brick and sandstone.
			0.05		1.35	Sandstone Bedrock
					1.40	End of Trial Pit at 1.40 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 1.3m			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -									
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271293.00									
Project No: MTV						Northing: 195723.00									
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:									
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Excavator									
						Shoring/Support: None									
Samples & Tests			Strata Details												
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description									
			0.05		0.05	Sandstone Bedrock									
						End of Trial Pit at 0.05 m									
								General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Stable			General Remarks: Pit terminated on bedrock									

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271253.00	
Project No: MTV					Northing: 195706.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.30		0.30	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
			0.20		0.50	
						Sandstone Bedrock
						End of Trial Pit at 0.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271251.00	
Project No: MTV						Northing: 195730.00	
Trial Pit Length (m): -				Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
			0.50		0.50	Sandstone Bedrock. Recovered as coarse angular sandstone gravel	
						End of Trial Pit at 0.50 m	
							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271174.00	
Project No: MTV			Northing: 195754.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.60		0.60	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
1.00	ES		1.40			MADE GROUND: Grey (2,1) gravelly clayey SAND. Coarse gravel of sandstone
					2.00	End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 1.2m			Stability: Collapsed at 1.5m		General Remarks: Pit terminated due to collapse	

Site: Coed Darcy Urban Village				Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 22/06/2011		Easting: 271170.00	
Project No: MTV						Northing: 195719.00	
				Excavation Method:			
Trial Pit Length (m): -			Trial Pit Width (m): -			Plant: Volvo 210 Excavator	
Logged By: Alex Mann			Checked By:			Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES		0.50		0.50	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)	
0.80	ES		0.35 0.05		0.85 0.90	MADE GROUND: Grey (2,1) gravelly clayey SAND. Coarse gravel of sandstone. Occasional wood.	
						Sandstone Bedrock End of Trial Pit at 0.90 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Ingress of water with light sheen at 0.8m			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271143.00	
Project No: MTV			Northing: 195736.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.40		0.40	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
0.80	ES		0.65			MADE GROUND: Grey (2,1) gravelly clayey SAND. Coarse gravel of sandstone.
			0.05		1.05	Sandstone Bedrock
					1.10	End of Trial Pit at 1.10 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations:			Stability:		General Remarks:	
Water ingress at 0.8m			Stable		Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271115.00	
Project No: MTV			Northing: 195752.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.40		0.40	Grey (5,1) gravelly clayey SAND. Coarse gravel of sandstone and concrete. Occasional Bitumen.
			0.30		0.70	Sandstone Bedrock
						End of Trial Pit at 0.70 m
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water with heavy sheen at 0.1 and 0.4m . Product forming on surface.			Stability: Stable		General Remarks: Pit terminated on bedrock	

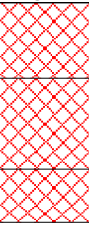
Site: Coed Darcy Urban Village			Start Date: 22/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 22/06/2011		Easting: 271109.00	
Project No: MTV			Northing: 195724.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.55			MADE GROUND: Grey (1,1) gravelly clayey SAND. Coarse gravel of sandstone and brick
			0.05		0.55 0.60	Sandstone Bedrock End of Trial Pit at 0.60 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water with heavy sheen at 0.6m . Product forming on surface.			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271077.00 Northing: 195746.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.20		0.20	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)	
0.70	ES		0.95			MADE GROUND: Grey (1,1) gravelly clayey SAND. Coarse gravel of sandstone and brick	
			0.05		1.15 1.20	Sandstone Bedrock End of Trial Pit at 1.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 22/06/2011 End Date: 22/06/2011		Site Level (mAOD): - Easting: 271046.00 Northing: 195764.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES		1.15			MADE GROUND: Brown locally stained grey (1,0) gravelly clayey SAND. Coarse gravel of concrete, brick and sandstone	
0.90	ES		0.05		1.15 1.20	Sandstone Bedrock End of Trial Pit at 1.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress at 1.1m				Stability: Stable		General Remarks: Pit terminated on bedrock	

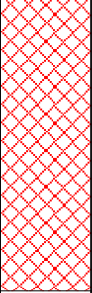
Site: Coed Darcy Urban Village			Start Date: 23/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/06/2011		Easting: 271045.00	
Project No: MTV					Northing: 195732.00	
			Excavation Method:			
Trial Pit Length (m): -		Trial Pit Width (m): -		Plant: Volvo 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.45		0.45	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
			0.05		0.50	Sandstone Bedrock
End of Trial Pit at 0.50 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 0.4m			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 23/06/2011 End Date: 23/06/2011		Site Level (mAOD): - Easting: 271019.00 Northing: 195753.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES		0.30		0.30	MADE GROUND: Light brown gravelly SAND. Medium to coarse gravel of brick and sandstone	
0.60	ES		0.35 0.05		0.65 0.70	MADE GROUND: Stained grey (2,1) clayey gravelly SAND. Coarse gravel of concrete and sandstone Sandstone Bedrock End of Trial Pit at 0.70 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress at 0.7m			Stability: Stable			General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: MTV				Start Date: 23/06/2011 End Date: 23/06/2011		Site Level (mAOD): - Easting: 270987.00 Northing: 195769.00	
Trial Pit Length (m): - Logged By: Alex Mann				Trial Pit Width (m): - Checked By:		Excavation Method: Plant: Volvo 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.40	ES		0.50		0.50	MADE GROUND: Light brown gravelly SAND. Medium to coarse gravel or brick and sandstone (0,0)	
0.90	ES		0.60		0.50	MADE GROUND: Stained dark grey (2,1) clayey gravelly SAND. Coarse gravel of concrete and sandstone	
			0.35		1.10	MADE GROUND: Stained light grey (2,1) clayey gravelly SAND. Coarse gravel of concrete and sandstone	
			0.05		1.45	Sandstone Bedrock	
					1.50	End of Trial Pit at 1.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 23/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/06/2011		Easting: 270982.00	
Project No: MTV			Northing: 195743.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.50		0.50	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
			0.50			Sandstone Bedrock. Recovered as coarse angular sandstone gravel
					1.00	End of Trial Pit at 1.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 0.5m			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 23/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/06/2011		Easting: 270962.25	
Project No: MTV			Northing: 195760.52			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.30	ES		0.40		0.40	MADE GROUND: Brown gravelly clayey SAND. Coarse gravel of concrete, sandstone and brick (0,0)
1.30	ES		1.60			MADE GROUND: Stained grey (2,1) clayey gravelly SAND. Coarse gravel of concrete and sandstone
					2.00	End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress with hydrocarbon odour at 1.5m			Stability: Collapsing at 1.5m		General Remarks: Pit terminated due to collapse	

Site: Coed Darcy Urban Village			Start Date: 23/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/06/2011		Easting: 270925.00	
Project No: MTV					Northing: 195773.00	
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES					MADE GROUND: Light brown gravelly SAND. Medium to coarse gravel of brick and sandstone. Occasional grey pockets.
1.40	ES		1.95			
			0.05			
					1.95 2.00	Sandstone Bedrock End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 23/06/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/06/2011		Easting: 270925.00	
Project No: MTV			Northing: 195754.00			
Trial Pit Length (m): -			Trial Pit Width (m): -		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.40		0.40	MADE GROUND: Light brown gravelly SAND. Medium to coarse gravel of brick and sandstone. Occasional re-bar (0,0)
0.80	ES		1.00			MADE GROUND: Stained grey (2,2) gravelly sandy CLAY. Potential asbestos fibres
1.60	ES		0.35		1.40	Orange Brown sandy gravelly CLAY. (0,0)
			0.05		1.75	Sandstone bedrock
					1.80	End of Trial Pit at 1.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Stable		General Remarks: Pit terminated on bedrock	

Appendix C

Gas and Groundwater Monitoring on Upper and Middle Terrace

Installation ref	Free product recorded?		Depth to groundwater (m)	Comments/Notes			Recorded Gas Concentrations (%)															FLOW (l/hr)			Atmospheric pressure (mb)	Pressure Trend
	Y/N	Product Thickness					CO2			O2			CH4			H2S	CO	VOCs								
							10	20	30	10	20	30	10	20	30			10	20	30						
28/01/2009																										
MSTP302	NR	NR	NR				0.3			19			ND							-6.5			1002			
WSTP121	NR	NR	NR				2.2			20			ND							-0.02			1002			
P1AF017	NR	NR	NR				0.7			16.2			ND							-4.2			1002			
09/02/2009																										
MSTP302	NR	NR	NR				0.1			21.1			ND							-0.6			990			
WSTP121	NR	NR	NR				3.3			17.8			ND							-0.5			990			
WSMW059	NR	NR	NR				ND			21.3			ND							-0.5			990			
P1AF017	NR	NR	NR				1.3			16			ND							-0.5			990			
16/02/2009																										
MSTP302	NR	NR	NR				0.7			19.9			ND							-0.07			977			
WSTP121	NR	NR	NR				2.8			18.9			ND							-0.07			977			
WSMW059	NR	NR	NR				ND			21			ND							-0.07			977			
P1AF017	NR	NR	NR				1.1			18.8			ND							-0.07			977			
MSMW059	NP	NP	2.26				0.8			19.7			1.3		ND	ND				-0.5			979			
Aug-09																										
TA1/1	NP	NP	3.47				0.2			16.4			0.1		ND	ND				-2.9			1011			
TA1/2	NP	NP	2.64				0.2			0.5			0.3		ND	ND				-1			1011			
TA1/3	NP	NP	6.1				6			0.5			1.3		ND	ND				-0.8			1011			
WSTP121	NP	NP	6.8				3.7			14.6			ND		ND	ND				-0.6			1011			
WSMW058	NP	NP	0.28				0.2			20.6			ND		ND	ND				-1			1011			
MSTP302	NP	NP	4.31				0.1			20.6			ND		ND	ND				-0.9			1011			
P1AF017	NP	NP	4.57				1.1			6.4			ND		ND	ND				-0.6			1011			
P1AF014	NP	NP	1.11																							
MSMW059	Y	Sheen	2.52				0.2			20.1			1.2		ND	ND				-0.9			1011			
Sep-09																										
TA1/1	NP	NP	4				ND			21			ND		ND	ND							1025			
TA1/2	NP	NP	3.37				0.2			21			0.1		ND	ND							1025			
TA1/3	NP	NP	6.73				5.3			10			2.9		ND	ND							1025			
WSTP121	NP	NP	7.24				2.8			15.9			ND		ND	ND							1025			
WSMW058	NP	NP	0.78				ND			20.9			ND		ND	ND							1025			
MSTP302	NP	NP	6.56				3.6			12.8			ND		ND	ND							1025			
P1AF017	NP	NP	4.99				2.5			10.4			ND		ND	ND							1025			
P1AF013	NP	NP		Lid Stuck																			1025			
Oct-09																										
TA1/1	NP	NP	4.24				ND			20.3			0.1		ND	ND				0.1			1021			
TA1/2	NP	NP	4.12				1.2			7.1			0.4		ND	1				0.1			1021			
TA1/3	NP	NP	7.36				6.4			1.3			5.1		ND	ND				0.2			1021			
WSTP121	NP	NP	7.4				3.4			14.6			0.1		ND	ND				0.2			1021			
WSMW058	NP	NP	0.32				0.1			20.7			0.1		ND	ND				ND			1021			
MSTP302	NP	NP	4.94				1.3			11.8			0.1		ND	1				ND			1021			
P1AF017	NP	NP	5.2				3.9			8.9			0.1		ND	ND				ND			1021			
P1AF014	NP	NP	1.17																							
P1AF013	NP	NP	2.16																							
MSMW059	Y	0.09	2.89				0.1			21.1			0.2		ND	1				ND			1021			
Dec-09																										
TA1/1	NP	NP	2.75				0.8			16.6			0.1		ND	ND				5.5			1011			
TA1/2	NP	NP	1.59				0.3			11.8			0.3		ND	ND				8.7			1011			
TA1/3	NP	NP	5.77	flooded																						
WSTP121	NP	NP	6.38				1.8			18.8			0.3		ND	ND				0.9			1011			
WSMW058	NP	NP	0.32	water in tap																						

MSTP302	NP	NP	0.65				0.4			20.4			ND			ND	ND							6.4			1011		
P1AF017	NP	NP	4.2	damaged																									
P1AF014	NP	NP	1.03																										
P1AF013	NP	NP	1.15																										
Feb-10																													
TA1/1	NP	NP	3.6	GA2000 being calibrated																									
TA1/2	NP	NP	2.73	Product on probe																									
TA1/3	NP	NP	6.56																										
Mar-10																													
TA1/1	NP	NP	4.07				0.1			21.2			ND			ND	ND							0.2			998		
TA1/2	NP	NP	3.74				ND			21.2			ND			ND	ND							0.3			998		
TA1/3	NP	NP	6.95				4.5			12.5			0.1			ND	ND							0.3			998		
WSTP121	NP	NP	7.36				1.4			18.6			ND			ND	ND							0.3			998		
WSMW058	NP	NP	0.61				ND			21.3			0.1			ND	ND							0.1			998		
MSTP302	NP	NP	6.25				0.3			20.6			0.1			ND	ND							0.1			998		
P1AF017	NP	NP	4.58	Pipe broken																									
P1AF014	NP	NP	1.23	No tap																									
P1AF013	NP	NP	2.08	No tap																									
MSMW059	Y	0.01	2.61				0.1			21.3			0.2			ND	ND							-0.1					
Mar-10																													
TA1/1	NP	NP	2.49				ND			21.1			0.1			ND	ND							1.6			982		
TA1/2	NP	NP	1.65				0.1			20.8			0.1			ND	ND							6.8			982		
TA1/3	NP	NP	6.01																										
WSTP121	NP	NP	6.38				1.8			17.5			0.1			ND	ND							ND			982		
WSMW058	NP	NP	GL				ND			21.5			0.1			ND	ND							0.1			982		
MSTP302	NP	NP	0.48				0.1			21.5			0.1			ND	ND							1.8			982		
P1AF017	NP	NP	3.9	Pipe broken																									
P1AF014	NP	NP	1				0.1			21.5			0.1			ND	ND							1.3			982		
P1AF013	NP	NP	0.68				0.1			21.5			0.1			ND	ND							0.2			982		
MSMW059	NP	NP	1.28				0.1			21.3			0.3			ND	ND							0.4					
Apr-10																													
TA1/1	NP	NP	3.45				ND			20.5			0.2			ND	ND							0			1019		
TA1/2	NP	NP	2.41				ND			20.5			0.1			ND	ND							0			1019		
TA1/3	NP	NP	6.25				3.5			15.6			0.2			ND	ND							0			1019		
WSTP121	NP	NP	6.93				1.3			18.3			0.1			ND	ND							0			1019		
WSMW058	NP	NP	0.31				ND			20.4			0.1			ND	ND							0			1019		
MSTP302	NP	NP	4.84				0.4			20.1			0.1			ND	ND							0			1019		
P1AF017	NP	NP	4.27																										
P1AF014	NP	NP	1.11				ND			20.6			0.1			ND	ND							0.1			1019		
P1AF013	NP	NP	1.71				0.9			18			0.1			ND	ND							0.1			1019		
MSMW059	Y	0.001	2.32				0.1			20.4			0.5				1							0.2					
Apr-10																													
TA1/1	NP	NP	3.85																										
TA1/2	NP	NP	3.06																										
TA1/3	NP	NP	6.65																										
May-10																													
TA1/1	NP	NP	4.29				0.2			20.1			0.2			ND	ND							1.1			1023		
TA1/2	NP	NP	4.08				0.4			17			0.2			ND	ND							0.9			1023		
TA1/3	NP	NP	7.17				1.5			17.2			0.2			ND	ND							0.7			1023		
WSTP121	NP	NP	7.38				1.5			17.7			0.2			ND	ND							0.7			1023		
WSMW058	NP	NP	0.45				ND			20.7			0.2			ND	ND							0.8			1023		
MSTP302	NP	NP	4.63				0.7			19.9			0.2			ND	ND							0.8			1023		
P1AF017	NP	NP	4.65																										
P1AF014	NP	NP	1.14				0.2			20.5			0.2			ND	ND							0.8			1023		
P1AF013	NP	NP	2.24				1.9			15.7			0.2			ND	ND							0.7			1023		
MSMW059	NP	NP	2.73	left off (bv SB)																									

[illegible]

Gas and Groundwater Monitoring on middle terrace

Installation ref	Free product recorded?		Depth to groundwater (m)	Comments/Notes		
	Y/N	Product Thickness				
Jul-98						
MSMW057d	N	NR	4			
MSMW057s	N	NR	1.34			
MSMW046	N	NR	3.96			
MSMW047	N	NR	4.41			
MSMW054	N	NR	0.89			
MSMW058d	N	NR	1.27			
MSMW058s	N	NR	1.78			
MSMW059	Y	0.02	2.53			
Jan-99						
MSMW057d	N	NR	2.89			
MSMW057s	N	NR	1.18			
MSMW046	N	NR	3.95			
MSMW047	N	NR	3.67			
MSMW054	N	NR	0.56			
MSMW058d	N	NR	1.08			
MSMW058s	N	NR	1.57			
MSMW059	N	NR	2.42			
May-99						
MSMW057d	N	NR	4.11			
MSMW057s	N	NR	1.23			
MSMW046	N	NR	4.08			
MSMW047	Y	0.01	4.73			
MSMW054	N	NR	0.84			
MSMW058d	Y	trace	1.5			
MSMW058s	Y	trace	1.8			
MSMW059	Y	0.01	2.65			
MSMW118	N	NR	7.01			
MSMW120	N	NR	4.7			
MSMW144	Y	0.01	2.01			
MSMW145	N	NR	3.32			
MSMW146	N	NR	3			
MSMW148	Y	0.001	1.12			
Mar-00						
MSMW057d	N	NR	3.94			
MSMW057s	N	NR	1.32			
MSMW046	N	NR	3.78			
MSMW047	N	NR	4.23			
MSMW054	N	NR	0.6			
MSMW058d	N	NR	1.17			
MSMW058s	N	NR	1.27			
MSMW059	Y	0.03	2.49			
MSMW118	N	NR	6.93			
MSMW120	N	NR	4.4			
MSMW144	N	NR	2.09			
MSMW145	N	NR	3.19			
MSMW146	Y	0.001	2.92			
MSMW148	N	NR	0.92			
Sep-00						
MSMW057d	N	NR	4.05			
MSMW057s	N	NR	1.34			
MSMW046	N	NR	5.39			
MSMW047	N	NR	5.16			
MSMW054	N	NR	0.8			
MSMW058d	N	NR	1.52			
MSMW058s	N	NR	1.27			
MSMW059	N	NR	3.16			
MSMW118	N	NR	8.82			
MSMW144	N	NR	1.87			
MSMW145	N	NR	3.24			
MSMW146	N	NR	3			
Mar-01						
MSMW057d	N	NR	4.15			
MSMW057s	N	NR	1.39			
MSMW046	N	NR	2.53			
MSMW047	N	NR	5.79			
MSMW058d	N	NR	1.49			
MSMW058s	N	NR	1.98			
MSMW059	Y	0.46	3.15			
MSMW118	N	NR	7.94			
MSMW144	N	NR	1.85			

MSMW145	N	NR	3.21			
MSMW148	N	NR	1.06			
Sep-01						
MSMW057d	N	NR	3.56			
MSMW057s	N	NR	1.68			
MSMW046	N	NR	5.02			
MSMW047	Y	0.01	5.97			
MSMW058d	N	NR	1.7			
MSMW058s	N	NR	2.09			
MSMW059	Y	0.48	2.75			
MSMW118	N	NR	9.12			
MSMW144	N	NR	1.87			
MSMW145	N	NR	3.12			
MSMW148	Y	0.08	2.12			
Apr-02						
MSMW057d	N	NR	4.92			
MSMW057s	N	NR	1.34			
MSMW046	N	NR	5.17			
MSMW047	N	NR	4.88			
MSMW058d	N	NR	1.23			
MSMW058s	N	NR	1.84			
MSMW059	Y	0.78	3.2			
MSMW118	N	NR	8.31			
MSMW120	N	NR	4.59			
MSMW144	N	NR	2.06			
MSMW145	N	NR	2.82			
MSMW148	Y	0.04	0.98			
Sep-02						
MSMW057d	N	NR	4.41			
MSMW057s	N	NR	1.56			
MSMW046	N	NR	3.68			
MSMW047	N	NR	5.58			
MSMW058d	N	NR	1.38			
MSMW058s	N	NR	1.41			
MSMW059	Y	0.47	2.99			
MSMW118	N	NR	7.41			
MSMW120	N	NR	4.86			
MSMW144	n	NR	1.99			
MSMW145	N	NR	2.85			
MSMW148	Y	0.06	1.93			
Mar-03						
MSMW057d	N	NR	4.04			
MSMW057s	N	NR	1.53			
MSMW046	N	NR	3.85			
MSMW047	N	NR	4.91			
MSMW058d	N	NR	1.32			
MSMW059	Y	0.54	3.41			
MSMW118	N	NR	7.42			
MSMW120	N	NR	4.73			
MSMW144	N	NR	2.03			
MSMW145	N	NR	3.12			
MSMW148	Y	0.03	1.38			
Sep-03						
WSMW008	N	NR	1.17			
MSMW057d	N	NR	4.2			
MSMW057s	N	NR	1.81			
MSMW046	N	NR	6.67			
MSMW047	N	NR	6.41			
MSMW058d	N	NR	1.78			
MSMW058s	N	NR	1.01			
MSMW059	Y	0.09	3.3			
MSMW118	N	NR	10.6			
MSMW120	N	NR	5.57			
MSMW144	N	NR	2.31			
MSMW145	N	NR	3.26			
Nov-03						
MSMW057d	N	NR	3.59			
MSMW057s	N	NR	1.3			
WSMW062	N	NR	1.94			
WSMW063	N	NR	2.18			
WSMW065	N	NR	2.32			
MSMW047	N	NR	4.1			
MSMW059	N	NR	2.25			
MSMW118	N	NR	8.30			
MSMW120	N	NR	4.30			
MSMW144	N	NR	2.10			

MSMW145	N	NR	3.25			
WSMW017	N	NR	2.75			
WSMW018	N	NR	0.21			
WSMW020	N	NR	0.79			
WSMW021	N	NR	0.68			
WSMW022D	N	NR	2			
WSMW022s	N	NR	1.26			
WSMW023D	N	NR	0.12			
WSMW023S	N	NR	0.18			
WSMW026	N	NR	0.3			
WSMW045	N	NR	1.23			
WSMW047	N	NR	2.24			
WSMW048	N	NR	1.91			
WSMW051	N	NR	0.86			
WSMW059	N	NR	0.57			
WSMW082D	N	NR	0.67			
WSMW082S	N	NR	0.32			
WSMW086	N	NR	0.1			
Mar-04						
MSMW057d	N	NR	3.63			
MSMW057s	N	NR	1.31			
MSMW059	N	NR	2.67			
MSMW118	N	NR	9.11			
Sep-04						
MSMW057d	N	NR	3.44			
MSMW057s	N	NR	1.34			
MSMW059	N	NR	2.07			
MSMW118	N	NR	7.36			
Mar-06						
MSMW118	N	NR	7.66			
MSMW057d	N	NR	3.47			
MSMW057s	N	NR	1.05			
MSMW144	Flooded					
MSMW059	Y	0.02	2.08			
Sep-06						
MSMW059	Y	0.03	2.87			
MSMW145	N	NR	2.98			
May-08						
MSMW118	N	NR	10.03			
MSMW144	N	NR	2.28			
WSMW023d	N	NR	0.983			
WSMW023s	N	NR	1.099			
WSMW051	N	NR	1.96			
MSMW059	Y	0.03	2.91			
MSMW145	N	NR	3.77			
Oct-08						
MSMW144	N	NR	2.08			
MSMW059	N	NR	2.69			
MSMW145	N	NR	3.16			
WSM023D	N	NR	0.83			
WSM023S	N	NR	0.81			
WSMW051	Y		1.59			
09/02/2009						
MSMW059	N	NR	2.26			
May-09						
MSMW059	Y	0.13	2.49			
Aug-09						
MSMW059	Y	sheen	2.52			
Sep-09						
MSMW059	Y	Sheen	2.75			
Oct-09						
MSMW059	N	0.09	2.89			

Dec-09						
MSMW059	Y	0.01	3.02			
Feb-10						
MSMW059	N	0.01	2.22			
Mar-10						
MSMW059	N	NR	1.28			
Mar-10						
MSMW059	N	NR	1.28			
Apr-10						
MSMW059	Y	0.01	2.32			
Apr-10						
MSMW059	Y	0.1	2.38			
May-10						
MSMW059	N	NR	2.72			
Oct-10						
MSMW059	N	NR	2.34			
Mar-11						
MSMW059	Y	0.04	3.61			
Apr-11						
MSMW059	Y	0.005	2.46			
May-11						
MSMW059	Y	0.04	3.69			
Jun-11						
MSMW059	Y	0.01	1.19			
Aug-11						
MSMW059	Y	0.01	3.13			
WSMW051	N	NR	1.5			

Groundwater Monitoring on the upper terrace

Installation ref	Free product recorded?		Depth to groundwater (m)	Comments/Notes		
	Y/N	Product Thickness				
Jun-98						
MSTP127	NP	NP	0.00			
MSTP119	NP	NP	1.00			
MSTP134	NP	NP	0.00			
MSTP140	NP	NP	NR			
MSTP141	NP	NP	NR			
MSMW060	NP	NP	4.72			
MSMW200	NP	NP	5.09			
Jul-98						
MSMW055	NP	NP	1.34			
Jan-99						
MSMW055	NP	NP	1.06			
MSMW060	NP	NP	3.51			
Mar-99						
MSMW150	NP	NP	5.80			
MSMW198	NP	NP	9.00			
MSMW187	NP	NP	7.50			
MSMW148	NP	NP	NR			
MSTP349	NP	NP	NR			
MSMW149	NP	NP	2.69			
MSMW186	NP	NP	16.49			
May-99						
MSMW055	NP	NP	1.23			
MSMW150	NP	NP	3.03			
MSMW187	NP	NP	7.33			
MSMW198	Y	0.34	5.44			
MSMW199	NP	NP	14.10			
MSMW060	Y	0.01	4.83			
Mar-00						
MSMW187	NP	NP	7.35			
MSMW198	Y	0.45	8.22			
MSMW199	Y	0.07	14.02			
MSMW060	NP	NP	4.40			
MSMW200	NP	NP	4.90			
MSMW149	NP	NP	2.42			
MSMW186	NP	NP	16.26			
Sep-00						
MSMW187	Y	0.01	7.67			
MSMW198	Y	0.56	8.57			
MSMW199	Y	0.01	14.19			
MSMW060	NP	NP	1.88			
MSMW200	NP	NP	4.99			
MSMW186	NP	NP	17.59			
Mar-01						
MSMW187	NP	NP	7.54			
MSMW198	Y	0.51	8.46			
MSMW199	Y	0.3	14.25			
MSMW060	NP	NP	4.81			
MSMW200	NP	NP	4.85			
MSMW149	NP	NP	2.43			
MSMW186	NP	NP	16.67			
Sep-01						
MSMW187	NP	NP	7.09			
MSMW198	Y	0.6	8.97			
MSMW199	Y	0.31	14.63			
MSMW060	Y	0.02	6.31			
MSMW200	Y	0.21	5.92			
MSMW149	NP	NP	3.48			
MSMW186	NP	NP	18.84			
Apr-02						
MSMW187	Y	0.01	7.84			
MSMW198	Y	0.44	8.40			
MSMW199	Y	0.3	14.46			
MSMW060	NP	NP	4.47			
MSMW200	NP	NP	4.97			
MSMW149	NP	NP	2.32			
MSMW186	NP	NP	17.05			

	Sep-02						
	MSMW187	Y	0.01	8.42			
	MSMW198	Y	0.6	8.97			
	MSMW199	Y	0.35	14.75			
	MSMW060	Y	0.01	5.98			
	MSMW200	Y	0.04	5.22			
	MSMW149	NP	NP	3.07			
	MSMW186	NP	NP	15.16			
	Mar-03						
	MSMW198	Y	0.33	8.45			
	MSMW199	Y	0.19	14.39			
	MSMW060	Y	0.01	5.14			
	MSMW200	Y	0.01	5.18			
	P1AF007	Y	0.01	2.94			
	P1AF013	NP	NP	1.39			
	P1AF014	NP	NP	0.87			
	P1AF015	NP	NP				
	P1AF016	NP	NP	2.81			
	P1AF017	NP	NP	4.77			
	MSMW149	NP	NP	2.83			
	MSMW186	NP	NP	17.23			
	Sep-03						
	MSMW198	Y	0.56	9.00			
	MSMW060	Y	0.02	6.40			
	MSMW200	Y	0.1	5.88			
	P1AF007	Y	0.01	3.56			
	P1AF013	NP	NP	2.10			
	P1AF014	NP	NP	0.92			
	P1AF015	NP	NP				
	P1AF016	NP	NP	4.19			
	P1AF017	NP	NP	5.55			
	MSMW149	NP	NP	3.69			
	MSMW186	NP	NP	19.94			
	Nov-03						
	WSMW056 PIT	NP	NP	NR			
	WSMW079	Y	NR	NR		Product at 0.2m	
	WSMW079 PIT	Y	0.2	0.40			
	WSTP058	NP	NP	NR			
	WSTP061	Y	0.01	1.10			
	WSTP062	NP	NP	0.60			
	WSTP119	Y	0.01	1.60			
	WSTP168	Y	0.01	0.40			
	WSTP174	Y	1	1.00			
	WSTP299	Y	NR	NR		Product at 0.3m	
	WSMW034 PIT	NP	NP	NR			
	WSTP063	NP	NR	NR		Product at 2.0m	
	WSTP118	NP	NR	NR		Product at 0.3m	
	WSTP064	NP	NP	NR			
	WSTP102	Y	NR	0.50		Product at 0.5m	
	WSTP121	Y	NR	NR		Product at 0.25m	
	WSTP123	NP	NP	NR			
	WSMW021 PIT	NP	NP	0.50			
	WSMW058	Y	NR	NR		Product at 4.0m	
	WSTP151	Y	NR	NR		Product at 0.4m	
	MSMW149	NP	NR	2.30			
	MSMW186	NP	NR	16.25			
	WSMW031	NP	NR	5.45			
	WSMW032	NP	NR	2.37			
	WSMW034	NP	NR	1.17			
	WSMW036	NP	NR	4.80			
	WSMW049D	NP	NR	4.51			
	WSMW050	NP	NR	3.02			
	WSMW052	NP	NR	0.85			
	WSMW053	NP	NR	3.28			
	WSMW056	NP	NR	5.04			
	WSMW068	NP	NR	17.18			
	Dec-03						
	WSMW069 PIT	NP	NP	NR			
	WSTP059	Y	0.01	0.80			
	WSTP060	NP	NP	NR			
	WSTP169	Y	NR	NR		Product at 0.5m	
	WSMW021	Y	NR	NR		Product at 2.2m	
	Jan-04						
	WSMW056	NP	NP	5.03			
	WSMW069	NP	NP	4.16			
	WSMW034	NP	NP	1.17			
	WSMW054	NP	NP	1.57			
	WSMW057	NP	NP	3.60			
	WSMW058	NP	NP	0.60			

	Mar-04						
	MSMW187	NP	NP	7.52			
	MSMW198	Y	0.36	8.50			
	WSTP121	NP	NP	5.50			
	MSMW060	NP	NP	4.56			
	MSMW200	NP	NP	4.53			
	P1AF007	NP	NP	2.76			
	MSMW149	NP	NP	2.16			
	WSMW055	NP	NP	3.02			
	Sep-04						
	MSMW187	NP	NP	6.96			
	MSMW198	Y	0.312	10.69			
	MSMW199	NP	NP	13.96			
	MSMW060	NP	NP	1.40			
	MSMW200	NP	NP	4.38			
	P1AF007	Y	0.01	0.97			
	P1AF016	NP	NP	1.42			
	MSMW149	NP	NP	2.24			
	WSMW055	NP	NP	2.28			
	Dec-04						
	WSTP121	NP	NP	7.05			
	MSMW200	NP	NP	4.89			
	P1AF013	NP	NP	1.33			
	P1AF014	NP	NP	0.83			
	P1AF015	NP	NP	6.52			
	P1AF016	NP	NP	2.66			
	P1AF017	NP	NP	5.34			
	Mar-05						
	MSMW055	NP	NP	0.66			
	MSMW198	Y	0.43	8.67			
	MSMW199	Y	0.41	14.65			
	MSMW060	NP	NP	4.39			
	MSMW200	NP	NP	4.54			
	P1AF007	NP	0.02	2.92			
	Sep-05						
	MSMW187	NP	NP	8.00			
	MSMW198	Y	0.28	8.62			
	MSMW199	Y	0.44	14.72			
	Mar-06						
	MSMW055	NP	NP	3.08			
	MSMW187	NP	NP	7.09			
	MSMW198	Y	0.46	8.33			
	MSMW199	Y	0.49	14.55			
	MSMW060	NP	NP	3.39			
	MSMW200	NP	NP	4.40			
	MSMW149	NP	NP	1.88			
	Jun-06						
	MSMW055	NP	NP	1.30			
	MSMW056	NP	NP	NR			
	MSMW060	NP	NP	2.23			
	Oct-06						
	WSMW069	NP	NP	4.23			
	MSMW187	NP	NP	8.08			
	MSMW198	Y	0.48	8.94			
	MSMW199	Y	0.12	14.48			
	MSMW060	NP	NP	5.85			
	MSMW200	NP	NP	5.42			
	P1AF007	NP	NP	3.06			
	P1AF016	NP	NP	3.99			
	Mar-07						
	WSMW069	NP	NP	1.82			
	MSMW187	NP	NP	7.77			
	MSMW199	Y	0.34	14.58			
	MSMW200	NP	NP	5.26			
	P1AF013	NP	NP	1.61			
	P1AF014	NP	NP	0.86			
	P1AF016	NP	NP	2.99			
	P1AF017	NP	NP	5.31			
	Oct-07						
	MSMW187	NP	NP	7.94			
	MSMW199	Y	0.15	14.28			
	MSMW200	NP	NP	5.00			

	May-08						
	P1AF013	NP	NP	1.94			
	P1AF014	NP	NP	1.26			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW053	NP	NP	5.03			
	WSMW055	NP	NP	5.69			
	Oct-08						
	P1AF013	NP	NP	1.38			
	P1AF014	NP	NP	1.03			
	P1AF017	NP	NP	4.76			
	WSMW049D	NP	NP	6.46			
	WSMW050	NP	NP	DRY			
	WSMW053	NP	NP	4.17			
	28/01/2009						
	MSTP302	NR	NR	NR			
	WSTP121	NR	NR	NR			
	P1AF017	NR	NR	NR			
	09/02/2009						
	MSTP302	NR	NR	NR			
	WSTP121	NR	NR	NR			
	WSMW059	NR	NR	NR			
	P1AF017	NR	NR	NR			
	16/02/2009						
	MSTP302	NR	NR	NR			
	WSTP121	NR	NR	NR			
	WSMW059	NR	NR	NR			
	P1AF017	NR	NR	NR			
	May-09						
	P1AF013	NP	NP	0.99			
	P1AF017	NP	NP	4.56			
	WSMW049D	NP	NP	6.35			
	WSMW050	NP	NP	DRY			
	Aug-09						
	TA1/1	NP	NP	3.47			
	TA1/2	NP	NP	2.64			
	TA1/3	NP	NP	6.10			
	WSTP121	NP	NP	6.80			
	WSMW058	NP	NP	0.28			
	MSTP302	NP	NP	4.31			
	P1AF017	NP	NP	4.57			
	P1AF014	NP	NP	1.11			
	Sep-09						
	TA1/1	NP	NP	4.00			
	TA1/2	NP	NP	3.37			
	TA1/3	NP	NP	6.73			
	WSTP121	NP	NP	7.24			
	WSMW058	NP	NP	0.78			
	MSTP302	NP	NP	6.56			
	P1AF017	NP	NP	4.99			
	P1AF013	NP	NP			Lid stuck	
	Oct-09						
	TA1/1	NP	NP	4.24			
	TA1/2	NP	NP	4.12			
	TA1/3	NP	NP	7.36			
	WSTP121	NP	NP	7.40			
	WSMW058	NP	NP	0.32			
	MSTP302	NP	NP	4.94			
	P1AF017	NP	NP	5.20			
	P1AF014	NP	NP	1.17			
	P1AF013	NP	NP	2.16			
	WSMW053	NP	NP	3.46			
	WSMW055	NP	NP	1.13			
	Dec-09						
	TA1/1	NP	NP	2.75			
	TA1/2	NP	NP	1.59			
	TA1/3	NP	NP	5.77		flooded	
	WSTP121	NP	NP	6.38			
	WSMW058	NP	NP	0.32		water in tap	
	MSTP302	NP	NP	0.65			
	P1AF017	NP	NP	4.20		damaged	
	P1AF014	NP	NP	1.03			
	P1AF013	NP	NP	1.15			

	Feb-10						
	TA1/1	NP	NP	3.60			
	TA1/2	NP	NP	2.73	Product on probe		
	TA1/3	NP	NP	6.56			
	WSTP121	NP	NP	6.88			
	WSMW058	NP	NP	Surface			
	MSTP302	NP	NP	0.68			
	P1AF017	NP	NP	4.40			
	P1AF014	NP	NP	1.02			
	P1AF013	NP	NP	0.90			
	Mar-10						
	TA1/1	NP	NP	4.07			
	TA1/2	NP	NP	3.74			
	TA1/3	NP	NP	6.95			
	WSTP121	NP	NP	7.36			
	WSMW058	NP	NP	0.61			
	MSTP302	NP	NP	6.25			
	P1AF017	NP	NP	4.58	Pipe broken		
	P1AF014	NP	NP	1.23	No tap		
	P1AF013	NP	NP	2.08	No tap		
	MSMW149	NP	NP	2.40			
	MSMW186	NP	NP	17.72			
	WSMW031	NP	NP	5.52			
	WSMW034	NP	NP	2.35			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW052	NP	NP	1.50			
	WSMW053	NP	NP	3.78			
	WSMW056	NP	NP	5.45			
	WSMW068	NP	NP	20.77			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			
	Mar-10						
	TA1/1	NP	NP	2.49			
	TA1/2	NP	NP	1.65			
	TA1/3	NP	NP	6.01			
	WSTP121	NP	NP	6.38			
	WSMW058	NP	NP	GL			
	MSTP302	NP	NP	0.48			
	P1AF017	NP	NP	3.90	Pipe broken		
	P1AF014	NP	NP	1.00			
	P1AF013	NP	NP	0.68			
	MSMW149	NP	NP	1.88			
	MSMW186	NP	NP	16.80			
	WSMW031	NP	NP	5.02			
	WSMW034	NP	NP	1.65			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	3.35			
	WSMW052	NP	NP	0.84			
	WSMW053	NP	NP	3.16			
	WSMW056	NP	NP	5.10			
	WSMW068	NP	NP	17.60			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			

	Apr-10						
	TA1/1	NP	NP	3.45			
	TA1/2	NP	NP	2.41			
	TA1/3	NP	NP	6.25			
	WSTP121	NP	NP	6.93			
	WSMW058	NP	NP	0.31			
	MSTP302	NP	NP	4.84			
	P1AF017	NP	NP	4.27			
	P1AF014	NP	NP	1.11			
	P1AF013	NP	NP	1.71			
	MSMW149	NP	NP	2.76			
	MSMW186	NP	NP	16.51			
	WSMW031	NP	NP	7.26			
	WSMW034	NP	NP	DRY			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW052	NP	NP	1.75			
	WSMW053	NP	NP	4.11			
	WSMW056	NP	NP	5.64			
	WSMW068	NP	NP	21.32			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			
	Apr-10						
	TA1/1	NP	NP	3.85			
	TA1/2	NP	NP	3.06			
	TA1/3	NP	NP	6.65			
	MSMW149	NP	NP	3.47			
	MSMW186	NP	NP	17.26			
	WSMW031	NP	NP	9.50			
	WSMW034	NP	NP	DRY			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW052	NP	NP	3.32			
	WSMW053	NP	NP	DRY			
	WSMW056	NP	NP	6.18			
	WSMW068	NP	NP	21.97			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			
	May-10						
	TA1/1	NP	NP	4.29			
	TA1/2	NP	NP	4.08			
	TA1/3	NP	NP	7.17			
	WSTP121	NP	NP	7.38			
	WSMW058	NP	NP	0.45			
	MSTP302	NP	NP	4.63			
	P1AF017	NP	NP	4.65			
	P1AF014	NP	NP	1.14			
	P1AF013	NP	NP	2.24			
	MSMW149	NP	NP	3.83			
	MSMW186	NP	NP	17.86			
	WSMW031	NP	NP	9.48			
	WSMW034	NP	NP	DRY			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW052	NP	NP	DRY			
	WSMW053	NP	NP	DRY			
	WSMW056	NP	NP	6.21			
	WSMW068	NP	NP	22.26			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			

	Oct-10						
	TA1/1	NP	NP	3.25			
	TA1/2	NP	NP	2.09			
	TA1/3	Y	0.2	6.00			
	WSTP121	NP	NP	6.70			
	WSMW058	NP	NP	0.73			
	MSTP302						
	P1AF017	NP	NP	4.42			
	P1AF014	NP	NP	1.09			
	P1AF013	NP	NP	1.70			
	MSMW149	NP	NP	2.65			
	MSMW186	NP	NP	16.41			
	WSMW031	NP	NP	6.97			
	WSMW034	NP	NP	2.56			
	WSMW049D	NP	NP	DRY			
	WSMW050	NP	NP	DRY			
	WSMW052	NP	NP	1.34			
	WSMW053	NP	NP	3.77			
	WSMW056	NP	NP	5.40			
	WSMW068	NP	NP	20.89			
	WSMW66D	NP	NP	DRY			
	WSMW66S	NP	NP	DRY			
	Mar-11						
	P1AF013	NP	NP	1.94			
	P1AF014	NP	NP	1.04			
	P1AF017	NP	NP	4.62			
	WSMW058	NP	NP	GL			
	TA1/1	NP	NP	2.94			
	WSTP121	NP	NP	7.08			
	TA1/2	NP	NP	2.40			
	WSMW034	NP	NP	2.33			
	WSMW056	NP	NP	5.29			
	MSMW149	NP	NP	2.40			
	MSMW186	NP	NP	19.06			
	WSMW54	NP	NP	1.34			
	WSMW66	NP	NP				
	WSMW068	NP	NP	20.46			
	WSMW031	NP	NP	5.24			
	WSMW49	NP	NP				
	WSMW50	NP	NP	DRY			
	WSMW52	NP	NP	1.80			
	WSMW53	NP	NP	DRY			
	Apr-11						
	P1AF013	NP	NP				
	P1AF014	NP	NP	0.87			
	P1AF017	NP	NP	4.38			
	WSMW058	NP	NP	0.24			
	TA1/1	NP	NP	3.45			
	WSTP121	NP	NP	6.52			
	TA1/2	NP	NP	2.81			
	WSMW034	NP	NP	2.85			
	WSMW056	NP	NP	5.33			
	MSMW149	NP	NP	2.41			
	MSMW186	NP	NP	17.49			
	WSMW54	NP	NP				
	WSMW66	NP	NP				
	WSMW068	NP	NP	21.31			
	WSMW031	NP	NP	6.26			
	WSMW49	NP	NP				
	WSMW50	NP	NP				
	WSMW52	NP	NP	1.70			
	WSMW53	NP	NP	4.30			
	May-11						
	P1AF013	NP	NP	2.65			
	P1AF014	NP	NP	3.35			
	P1AF017	NP	NP	4.95			
	WSMW058	NP	NP	0.82			
	TA1/1	NP	NP	4.07			
	WSTP121	NP	NP	7.42			
	TA1/2	NP	NP	4.20			
	WSMW034	NP	NP	4.55			
	WSMW056	NP	NP	6.36			
	MSMW149	NP	NP	3.58			
	MSMW186	NP	NP	18.22			
	WSMW54	NP	NP	1.93			
	WSMW66	NP	NP	DRY			
	WSMW068	NP	NP	22.59			
	WSMW031	NP	NP	9.35			
	WSMW49	NP	NP				
	WSMW50	NP	NP	DRY			
	WSMW52	NP	NP	3.65			
	WSMW53	NP	NP	2.80			

	Jun-11						
	P1AF013	NP	NP	1.94			
	P1AF014	NP	NP	1.04			
	P1AF017	NP	NP	4.62			
	WSMW058	NP	NP	GL			
	TA1/1	NP	NP	2.94			
	WSTP121	NP	NP	7.08			
	TA1/2	NP	NP	2.40			
	WSMW034	NP	NP	2.33			
	WSMW056	NP	NP	5.29			
	MSMW149	NP	NP	2.40			
	MSMW186	NP	NP	19.06			
	WSMW54	NP	NP	1.34			
	WSMW66	NP	NP				
	WSMW068	NP	NP	20.46			
	WSMW031	NP	NP	5.24			
	WSMW49	NP	NP				
	WSMW50	NP	NP	DRY			
	WSMW52	NP	NP	1.80			
	WSMW53	NP	NP	DRY			
	Jul-11						
	P1AF013	NP	NP	1.85			
	P1AF014	NP	NP	1.14			
	P1AF017	NP	NP	4.48			
	WSMW058	NP	NP	GL			
	TA1/1	NP	NP	3.33			
	WSTP121	NP	NP	6.79			
	TA1/2	NP	NP	2.17			
	WSMW034	NP	NP	2.60			
	WSMW056	NP	NP	5.40			
	MSMW149	NP	NP	2.22			
	MSMW186	NP	NP	17.38			
	WSMW54	NP	NP	1.40			
	WSMW66	NP	NP				
	WSMW068	NP	NP	21.30			
	WSMW031	NP	NP	5.30			
	WSMW49	NP	NP	DRY			
	WSMW50	NP	NP	DRY			
	WSMW52	NP	NP	1.80			
	WSMW53	NP	NP	DRY			

Appendix D

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Parks land use, Deep Soil (>1m)

Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Benzo(a)pyrene	>sat	>sat
Benzene	48	48
Toluene	>sat	>sat
Ethylbenzene	>sat	>sat
Xylene	478	1330
TPH aromatic C7-C8	>sat	>sat
TPH aromatic C8-C10	>sat	>sat
TPH aromatic C10-C12	>sat	>sat
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	>sat	>sat
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aromatic C16-C21	>sat	>sat
TPH aromatic C21-C35	>sat	>sat
TPH aliphatic C16-C21	>sat	>sat
TPH aliphatic C21-C35	>sat	>sat
Total TPH (Phase 1)	>sat	>sat
Total TPH (Process Area)	>sat	>sat
Total TPH (North Tank Farm)	>sat	>sat
Total TPH (South Tank Farm)	>sat	>sat
1,2-Dichloroethane	6	6
1,1,1-Trichloroethane	>sat	>sat
Tetrachloroethene	1780	1780
Trichloroethene	269	269
Vinyl chloride	8.21	11.4
Dichloromethane	6220	6220
Cis-1,2-Dichloroethene	881	881
Trans-1,2 Dichloroethene	881	881
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(ah)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	>sat	>sat
Mercury (methyl)	>sat	>sat
Mercury (elemental)	>sat	>sat
Naphthalene	>sat	>sat
TPH aromatic C5-C7	432	928
TPH aliphatic C5-C6	>sat	>sat
1,1,1,2-Tetrachloroethane	>sat	>sat
1,1,2,2-Tetrachloroethane	>sat	>sat
Carbon tetrachloride	301	778
Chlorobenzene	>sat	>sat

Notes

- Where the lower of the vapour or aqueous saturation limits has been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - Users must consider total exposure from all xylene isomers and not consider them in isolation. It should be noted that the value presented is the lowest of the aqueous or vapour saturation limits. The lowest saturation limit of the three isomers has been presented.
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no value has been presented here
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
- TPH aromatic C5-C7 is considered to comprise benzene only

Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Arsenic	64 a	64 a
Chromium	78 a	78 a
Cadmium	2.6	2.6
Mercury (inorganic)	1 b	1 b
Nickel	75 b	75 b
Selenium	3 b	3 b
Lead	337 a	337 a
Vanadium	351	351
Copper	143 a	143 a
Zinc	478 a	478 a
Benzo(a)pyrene	0.9	0.9
Benzene	13	13
Toluene	8110	8110
Ethylbenzene	4740	4740
Xylene	7940	7940
TPH aromatic C7-C8	21300	21300
TPH aromatic C8-C10	2230	2310
TPH aromatic C10-C12	2300	2340
TPH aromatic C12-C16	2330	2350
TPH aliphatic C6-C8	294000 *	294000 *
TPH aliphatic C8-C10	5740 *	5740 *
TPH aliphatic C10-C12	5700	5830
TPH aliphatic C12-C16	5800	5860
TPH aromatic C16-C21	1450	1450
TPH aromatic C21-C35	1450	1450
TPH aliphatic C16-C35	159000	159000
TPH aliphatic C21-C35	159000	159000
Total TPH (Phase 1)	9060	9060
Total TPH (Process Area)	10800	10800
Total TPH (North Tank Farm)	9420	9420
Total TPH (South Tank Farm)	6350	6350
1,2-Dichloroethane	4.5	4.5
1,1,1-Trichloroethane	27900	27900
Tetrachloroethene	641	641
Trichloroethene	193	193
Vinyl chloride	0.7	0.7
Dichloromethane	241	241
Cis-1,2-Dichloroethene	392	468
Trans-1,2 Dichloroethene	632	632
Acenaphthene	5340	5350
Anthracene	26800	26800
Benzo(a)anthracene	20.8	21.1
Benzo(b)fluoranthene	21.3	21.3
Benzo(g,h,i)perylene	218	218
Benzo(k)fluoranthene	215	215
Chrysene	2090	2090
Dibenz(ah)anthracene	2.16	2.16
Fluoranthene	3570	3570
Fluorene	3570	3570
Indeno(1,2,3-cd)pyrene	21.2	21.2
Pyrene	2680	2680
Phenol	859	859
Mercury (methyl)	19.4	19.4
Mercury (elemental)	4.3	12.9
Naphthalene	955	1340
TPH aromatic C5-C7	26.2	27.5
TPH aliphatic C5-C6	294000	294000
1,1,1,2-Tetrachloroethane	498	533
1,1,2,2-Tetrachloroethane	516	539
Carbon tetrachloride	111	128
Chlorobenzene	170	170

Notes
1. It is assumed that no visible free product is present within the top 1.0m of soil
2. Metal RTC derived considering Soil Codes and background data
a – based on background soil concentration
b – based on Soil Code
3. Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
4. TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
* 5. The RTC for TPH aliphatic C5-C6, TPH aliphatic C6-C8 and TPH aliphatic C8-C10 are based on a value produced from following the approach outlined in SR4 for substances at saturation
6. TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered
7. 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
8. Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
9. Asbestos has not been considered here as it is being considered in a separate report
10. Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
11. Elemental mercury is based on the inhalation pathway only and the saturation limit has been presented
12. TPH aromatic C5-C7 is considered to comprise benzene only

Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Benzo(a)pyrene	>sat	>sat
Benzene	0.4	0.4
Toluene	52	52
Ethylbenzene	140	140
Xylene	58	58
TPH aromatic C7-C8	146	146
TPH aromatic C8-C10	71	209
TPH aromatic C10-C12	1390	1390
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	42.5	125
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aliphatic C16-C21	>sat	>sat
TPH aliphatic C21-C35	>sat	>sat
TPH aromatic C16-C21	>sat	>sat
TPH aromatic C21-C35	>sat	>sat
Total TPH (Phase 1)	9180	9180
Total TPH (Process Area)	4100	4100
Total TPH (North Tank Farm)	3800	3800
Total TPH (South Tank Farm)	2790	2790
1,2-Dichloroethane	0.0111	0.0176
1,1,1-Trichloroethane	10.8	25.9
Tetrachloroethene	2.3	6.12
Trichloroethene	0.188	0.463
Vinyl chloride	0.00093	0.00129
Dichloromethane	4.19	6.04
Cis-1,2-Dichloroethene	0.206	0.392
Trans-1,2 Dichloroethene	0.332	0.689
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(ah)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	1030	2340
Mercury (methyl)	27.7	62.5
Mercury (elemental)	0.291	0.87
Naphthalene	2.8	8.02
TPH aromatic C5-C7	0.46	0.987
TPH aliphatic C5-C6	112	246
1,1,1,2-Tetrachloroethane	1.84	5.09
1,1,2,2-Tetrachloroethane	4.71	11.3
Carbon tetrachloride	0.0309	0.0801
Chlorobenzene	17.9	47.9

Notes

- Where the lower of the vapour or aqueous saturation limits have been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no RTC value has been presented here
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
- TPH aromatic C5-C7 is considered to comprise benzene only

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Residential with the Consumption of Produce land use, Shallow Soil.

Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Arsenic	64 a	64 a
Chromium	78 a	78 a
Cadmium	2.6	2.6
Mercury (inorganic)	1 b	1 b
Nickel	50	50
Selenium	3 b	3 b
Lead	337 a	337 a
Vanadium	113	115
Copper	143 a	143 a
Zinc	478 a	478 a
Benzo(a)pyrene	0.9	0.9
Benzene	0.0493	0.12
Toluene	36	36
Ethylbenzene	38.2	41
Xylene	17.2	32
TPH aromatic C7-C8	86.9	125
TPH aromatic C8-C10	14.8	94
TPH aromatic C10-C12	57.3	118
TPH aromatic C12-C16	131	131
TPH aliphatic C6-C8	69.8	8340
TPH aliphatic C8-C10	9.76	87.1
TPH aliphatic C10-C12	1780 *	3200
TPH aliphatic C12-C16	4510	4510
TPH aromatic C16-C21	82	82
TPH aromatic C21-C35	888	1130
TPH aliphatic C16-C21	94200	94200
TPH aliphatic C21-C35	94800	94800
Total TPH (Phase 1)	1720	1720
Total TPH (Process Area)	2600	2600
Total TPH (North Tank Farm)	1100	1100
Total TPH (South Tank Farm)	1020	1020
1,2-Dichloroethane	0.0019	0.0102
1,1,1-Trichloroethane	2.23	17.3
Tetrachloroethene	0.455	3.62
Trichloroethene	0.0382	0.304
Vinyl chloride	0.000202	0.00082
Dichloromethane	0.458	1.56
Cis-1,2-Dichloroethene	0.0393	0.255
Trans-1,2-Dichloroethene	0.0671	0.464
Acenaphthene	588 *	1380
Anthracene	8270	14800
Benzo(a)anthracene	7.56	16.5
Benzo(b)fluoranthene	20	23.9
Benzo(g,h,i)perylene	235	248
Benzo(k)fluoranthene	216	243
Chrysene	1500	2220
Dibenz(ah)anthracene	1.97	2.39
Fluoranthene	822	1630
Fluorene	615	1390
Indeno(1,2,3-cd)pyrene	19.2	23.6
Pyrene	563	1150
Phenol	162	349
Mercury (methyl)	6.28	11.3
Mercury (elemental)	0.0607	0.583
Naphthalene	0.585	5.05
TPH aromatic C5-C7	0.0493	0.192
TPH aliphatic C5-C6	30.1	172
1,1,1,2-Tetrachloroethane	0.353	2.78
1,1,2,2-Tetrachloroethane	0.695	3.63
Carbon tetrachloride	0.00656	0.0541
Chlorobenzene	1.06	3.38

Notes

1. It is assumed that no visible free product is present within the top 1.0m of soil
2. Metal RTC derived considering Soil Codes and background data
- a – based on background soil concentration
- b – based on Soil Code
3. Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
4. TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- * 5. The RTC for TPH aliphatic C10-C12 and acenaphthene is based on a value produced from following the approach outlined in SR4 for substances at saturation
6. 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
7. Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
8. Asbestos has not been considered here as it is being considered in a separate report
9. Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
10. Phenol is derived by comparing the oral exposure to the oral HCV and the dermal and inhalation exposure to the inhalation HCV
11. Elemental mercury is based on inhalation pathways only
12. TPH aromatic C5-C7 is considered to comprise benzene only

Contaminant	Minimum of RTC/RBSL mg/L
Benzo(a)pyrene	>sat
Benzene	0.0888
Toluene	47
Ethylbenzene	13.4
Xylene	4.1
TPH aromatic C7-C8	20
TPH aromatic C8-C10	0.985
TPH aromatic C10-C12	3.87
TPH aromatic C12-C16	>sat
TPH aromatic C16-C21	>sat
TPH aromatic C21-C35	>sat
TPH aliphatic C6-C8	1.4
TPH aliphatic C8-C10	0.0296
TPH aliphatic C10-C12	0.0228
TPH aliphatic C12-C16	>sat
TPH aliphatic C16-C21	>sat
TPH aliphatic C21-C35	>sat
1,2-Dichloroethane	0.0373
1,1,1-Trichloroethane	13.1
Tetrachloroethene	1.66
Trichloroethene	0.222
Vinyl chloride	0.00248
Dichloromethane	13
Cis-1,2 Dichloroethene	0.547
Trans-1,2 Dichloroethene	0.675
Acenaphthene	>sat
Anthracene	>sat
Benzo(a)anthracene	>sat
Benzo(b)fluoranthene	>sat
Benzo(k)fluoranthene	>sat
Chrysene	>sat
Dibenz(ah)anthracene	>sat
Fluoranthene	>sat
Fluorene	>sat
Indeno(1,2,3-cd)pyrene	>sat
Pyrene	>sat
Phenol	1700
Mercury (methyl)	45.5
Mercury (elemental)	0.00463
Naphthalene	0.952
TPH aromatic C5-C7	0.0888
TPH aliphatic C5-C6	1.93
1,1,1,2-Tetrachloroethane	1.05
1,1,2,2-Tetrachloroethane	6.89
Carbon Tetrachloride	0.0229
Chlorobenzene (mono)	13.7

Notes
1. Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
2. TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
3. Where indoor and outdoor values were presented by RBCA, these have been integrated in line with SNIFFER (2003). Where both indoor and outdoor values derived by RBCA were greater than the saturation limit, >sat has been presented. Where indoor values were presented by RBCA, and the outdoor values were >sat, only the indoor values have been presented. Therefore >sat indicates that the theoretical RTC is greater than solubility limit.
4. TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered
7. Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
8. TPH aromatic C5-C7 is considered to comprise benzene only by Atkins

Appendix E

Coed Darcy Urban Village

Historical Investigation_Upper and MiddleTerraces (Metals and TPH)

Sample	Depth (m bgl)	Strata	Arsenic as As, dry weight mg/kg	Cadmium as Cd, dry weight mg/kg	Chromium as Cr, dry weight mg/kg	Copper as Cu, dry weight mg/kg	Lead as Pb, dry weight mg/kg	Mercury as Hg, dry weight mg/kg	Nickel as Ni, dry weight mg/kg	Selenium as Se, dry weight mg/kg	Vanadium as V, dry weight mg/kg	Zinc as Zn, dry weight mg/kg	VPH >C5 C6, aliphatic mg/kg	VPH >C6 C8, aliphatic mg/kg	VPH >C8 C10, aliphatic mg/kg	EPH >C10 - C12, aliphatic mg/kg	EPH >C12 - C16, aliphatic mg/kg	EPH >C16 - C21, aliphatic mg/kg	EPH >C21 - C35, aliphatic mg/kg	EPH >C16 - C35, aliphatic mg/kg	VPH >C6 - C7, aromatic mg/kg	VPH >C7 C8, aromatic mg/kg	VPH >C8 C10, aromatic mg/kg	EPH >C10 - C12, aromatic mg/kg	EPH >C12 - C16, aromatic mg/kg	EPH >C16 C21, aromatic mg/kg	EPH >C21 C35, aromatic mg/kg		
WSMW034	0.15	natural												ND	ND	ND	ND	ND	190			ND	ND	ND	ND	ND	ND	ND	63
WSMW054	0.2	natural												ND	ND	ND	ND	330	2200			ND	ND	ND	ND	ND	330	670	
WSTP058	1	MG												ND	ND	14	110	91	100			ND	ND	ND	49	ND	ND	75	
WSTP058	1.5	MG												ND	ND	360	3300	1900	470			ND	ND	ND	47	1000	860	ND	
WSTP059	0.5	MG												ND	ND	ND	ND	110	220			ND	ND	ND	ND	49	65		
WSTP059	2	Natural												ND	120	190	190	59	78			ND	50	56	59	28	ND		
WSTP060	1	MG												ND	ND	ND	97	260	340			ND	ND	33	120	480	1100		
WSTP060	1.9	MG												ND	ND	ND	170	630	770			ND	ND	ND	76	620	1300		
WSTP061	1	MG												ND	190	610	4200	1900	180			ND	ND	37	770	850	85		
WSTP061	1.75	MG												ND	ND	21	180	120	ND			ND	ND	18	150	140	180		
WSTP062	1	Natural												31	300	47	26	ND	150			ND	ND	13	30	ND	100		
WSTP062	0.55	Natural	1600	37	51	2100	17000	1.4	84	1.6	39	44000																	
WSTP063	0.5	MG	19	0.6	17	61	230	0.32	31	0.11	17	450																	
WSTP101	0.4	Natural	10	ND	16	21	100	ND	26	0.36	20	95		ND	ND	ND	77	170	640			ND	ND	ND	66	50	260		
WSTP118	0.5	MG												ND	ND	ND	260	1100	1000			ND	ND	ND	ND	110	480	710	
WSTP119	0.6	MG												ND	ND	21	67	32	70			ND	ND	ND	ND	ND	ND	ND	
WSTP168	1	MG												ND	ND	200	1000	2100	1300			ND	ND	ND	26	410	1600	810	
WSTP169	0.5	MG	17	1	24	37	300	0.31	21	0.37	35	290		ND	ND	ND	360	1900	3100			ND	ND	ND	83	1300	1300		
WSTP174	0.45	MG	390	16	16	3600	4300	0.6	39	1.4	32	11000		ND	85	170	700	370	240			ND	64	41	280	88	ND		
WSTP174	3.9	Natural												ND	ND	150	1900	2500	5900			ND	ND	55	990	2200	2800		
WSTP299	0.4	MG																											
MSTP140	0.5	MG	21	ND	15	107	114	ND		ND	23	256																	
WSTP064	0.4	MG																											
WSTP064	1.75	nat																											
WSTP102	0.5	mg												ND	13	16	1100	1700	1000			ND	ND	16	170	270	160		
WSTP121	0.4	nat												ND	18	75	490	420	87			ND	ND	99	320	270	68		
WSTP121	1.6	nat																											
MSTP141	0.2	MG																											
MSTP141	0.2	MG																											
MSTP302	0.05	nat																											
MSTP345	0.1	nat																											
P1AF013	0.2	MG	59.93	0.6	13	279	101	0.1	26	0.18	16	446		ND	ND	28	265	163	171			ND	ND	ND	170	214	559		
P1AF016	0.1	nat	17.41	ND	14	35	23	ND	51	0.42	15	159		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
P1AF016	0.5	nat												ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
P1AF016	1.3	nat												ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
P1AF017	0.2	nat												ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
P1AF017	0.5	nat	29.12	0.2	18	207	38	ND	27	0.6	41	145		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
P1AF017	1	nat												ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		
MSTP 117	0.5	Made Ground	45	4	16	1261	59	0	88	0.7	22	439																	
MSTP 118	1	Natural	12	4	16	62	36	0	25	1.2	26	94																	
WSTP054	0.6	Natural	17	0.34	0.55	55	31	0.17	36	0.41	23	110																	
WSTP055	0.5	Natural														28	47	72	49					72	60	220	87		
WSTP055	2	Natural														69	51	150	51					110	50	160	69		
WSTP065	0.2	Made Ground	100	4.4	12	120	93	0.12	56	1.7	37	310		ND	ND	ND	ND	ND	67			ND	ND	ND	ND	ND	160		
WSTP065	3	Made Ground												ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND			
WSTP115	0.2	Made Ground	87	1.2	15	100	64	0.2	15	1.3	25	65		ND	ND	ND	ND	ND	110			ND	ND	ND	ND	ND	264		
WSTP116	0.9	Made Ground												ND	ND	ND	62	76	81	220			ND	ND	36	66	110	207	
WSTP116	3	Made Ground												ND	ND	ND	ND	ND	250			ND	ND	ND	ND	ND	467		
WSTP146	1.7	Made Ground												ND	ND	ND	ND	ND	46	250			ND	ND	ND	ND			
WSTP149	0.7	Made Ground	12	ND	13	25	22	ND	26	0.59	20	86																	
MSTP126	1.3	Natural	15	3	17	60	39	ND	37	0	19	104																	
MSTP138	2	Made Ground	32	3	13	63	55	ND	25	0.5	19	100																	
WSMW032	0.3	Made Ground	28	0.98	26	65	64	ND	38	0.75	26	200																	
WSMW049(PIT)	0.6	Made Ground	11	ND	13	26	36	ND	31	0.11	17	94		ND	ND	ND	ND	ND	100			ND	ND	ND	ND	ND	200		
WSMW050	0.6	Made Ground												ND	ND	ND	ND	ND	100			ND	ND	ND	ND	ND			
WSMW053	3	Natural																				ND	ND	ND	ND	410	380		
WSMW055	0.7	Made Ground	41	1.3	16	180	460	1.6	32	0.31	22	470		ND	ND	ND	ND	30	280			ND	ND	ND	ND	ND	478		
WSTP148	0.7	Natural	89	1.4	17	220	220	0.28	44	0.6	25	1200																	
WSTP169	0.5	Made Ground	17	1	24	37	300	0.31	21	0.37	35	290		ND	ND	ND	ND	83	1300	1300			ND	ND	ND	360	5000		
WSTP169	1.8	Made Ground												ND	ND	ND	ND	ND	1100	100			ND	ND	ND	210	3100		
WSTP179	0.5	Made Ground	22	0.21	17	52	37	0.14	24	0.74	19	120																	
MSTP 146	0.5	mg	4	ND	10	18	63	ND	14	1.3	14	99																	
MSTP 152	1.1	mg	14	5	14	87	39	ND	31	ND	23	118																	
MSTP 156	0.7	mg	6	7	15	27	27	ND	29	ND	23	140																	
WMSW082	0.3	mg	32	1.9	27	87	380	0.82	42	1.1	52	510																	
WSTP040	1.1	nat	12	ND	14	26	18	0.1	26	0.77	16	100																	
WSTP104	0.4	mg	17	ND	60	35	40	0.16	22	0.46	19	100																	
WSTP123	0.6	nat	7.1	ND	13	17	35	ND	50	0.11	14	85																	

Coed Darcy Urban Village

Historical Investigation, Upper and Middle Terraces (VOCs and BTEX)

Sample	Depth (m bgl)	Strata	1,1-Dichloroethane mg/kg	1,1-Dichloroethylene mg/kg	1,1-Dichloropropene mg/kg	1,2,3-Trichloropropane mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-dibromomethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	Carbon tetrachloride mg/kg	Cis-0.01,2-Dichloroethylene mg/kg	Cis-0.01,3-Dichloropropene mg/kg	Dibromomethane mg/kg	Dichlorodifluoromethane mg/kg	Dichloromethane mg/kg	n-Propylbenzene mg/kg	O-Xylene mg/kg	Styrene mg/kg	T-Butylbenzene mg/kg	Tetrachloroethylene mg/kg	Toluene mg/kg	Trans-0.01,2-Dichloroethene mg/kg	Trans-0.01,3-Dichloropropene mg/kg	Trichloroethylene mg/kg	Trichlorofluoromethane mg/kg	Vinyl chloride mg/kg	benzene mg/kg	toluene mg/kg	ethylbenzene mg/kg	m&p-xylene mg/kg	o-xylene mg/kg
WSMMW034	0.15	natural								ND																			ND	ND	ND	ND	ND
WSMMW054	0.2	natural								ND																		ND	ND	ND	ND	ND	
WSMMW056																												ND	ND	ND	ND	ND	
WSMMW150	0.1	MG																															
WSMMW187										ND																			ND	ND	ND	ND	ND
WSMMW188																																	
WSMMW199																																	
WSTP058	1	MG								ND																							
WSTP058	1.5	MG								ND																			0.0839	ND	ND	ND	ND
WSTP059	0.5	MG								ND																							
WSTP059	2	Natural								ND																			ND	ND	ND	ND	ND
WSTP060	1	MG								ND																			ND	ND	ND	ND	ND
WSTP060	1.9	MG								ND																			ND	ND	ND	ND	ND
WSTP061	1	MG								ND																			ND	ND	ND	ND	ND
WSTP061	1.75	MG								ND																			0.426	0.301	0.731	2.18	0.231
WSTP062	0.55	Natural								ND																			ND	ND	ND	ND	ND
WSTP062	1	Natural								ND																			ND	ND	ND	ND	ND
WSTP063	0.5	MG								ND																			0.004	ND	ND	ND	ND
WSTP063	3.2	Natural								ND																			ND	ND	ND	ND	ND
WSTP100	0.9	Natural								ND																			ND	ND	ND	ND	ND
WSTP101	0.4	Natural								ND																			ND	ND	ND	ND	ND
WSTP101	1.25	MG								ND																			ND	ND	ND	ND	ND
WSTP118	0.5	Natural								ND																			ND	ND	ND	ND	ND
WSTP118	3	MG								ND																			ND	ND	ND	ND	ND
WSTP119	0.6	Natural								ND																			ND	ND	ND	ND	ND
WSTP119	3.5	MG								ND																			ND	ND	ND	ND	ND
WSTP168	1	MG								ND																			0.0688	0.286	0.121	0.372	0.104
WSTP169	0.5	MG								ND																			ND	0.0877	ND	ND	ND
WSTP169	1.8	MG								ND																			ND	ND	ND	ND	ND
WSTP174	0.45	MG								ND																			ND	ND	ND	ND	ND
WSTP174	3.9	Natural								ND																			ND	ND	ND	ND	ND
WSTP175	0.3	Natural								ND																			ND	ND	ND	ND	ND
WSTP175	1.5	Natural								ND																			0.0532	ND	0.147	0.297	ND
WSTP299	0.4	MG								ND																			ND	ND	ND	ND	ND
WSTP299	0.5	MG								ND																			ND	ND	ND	ND	ND
MSTP140	0.5	MG								ND																			ND	ND	ND	ND	ND
WSTP061	1	MG								ND							ND												0.426	0.301	0.731	2.18	2.18
WSTP061	1.75	MG								ND							ND												ND	ND	ND	ND	ND
WSTP061	0.45	MG								ND							ND												ND	ND	ND	ND	ND
WSTP062	1	nat								ND							ND												ND	ND	ND	ND	ND
WSTP064	0.4	MG								ND							ND												ND	ND	ND	ND	ND
WSTP064	1.75	nat								ND							ND												ND	ND	ND	ND	ND
WSTP102	0.5	mg								ND							ND												ND	ND	ND	ND	ND
WSTP121	0.4	nat								ND							ND												ND	ND	ND	ND	ND
WSTP121	1.5	nat								ND							ND												ND	ND	ND	ND	ND
MSTP141	0.2	MG								ND							-												ND	ND	ND	ND	ND
MSTP141	0.2	MG								-							-												-	-	-	-	-
MSTP302	0.06	nat								-							-												-	-	-	-	-
MSTP345	0.1	nat								-							-												-	-	-	-	-
PIAF013	0.2	MG								ND							ND												ND	ND	ND	ND	ND
PIAF016	0.1	nat								ND							ND												ND	ND	ND	ND	ND
PIAF016	0.5	nat								ND							0.0062												ND	ND	ND	ND	ND
PIAF016	1.3	nat								ND							ND												ND	ND	ND	ND	ND
PIAF017	0.2	nat								ND							ND												ND	ND	ND	ND	ND
PIAF017	0.5	nat								-							-												-	-	-	-	-
PIAF017	1	nat								ND							ND												ND	ND	ND	ND	ND
MSTP117	0.5	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND
MSTP118	1	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW033	0.9	ND			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW033	2.4	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW033	4	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW036	0.9	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW036	2	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW066 (PIT)	0.8	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW066 (PIT)	1.6	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW068	1	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSMMW068	1.8	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSTP054	1	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSTP054	2	Natural			ND					ND										ND									ND	ND	ND	ND	ND
WSTP065	0.9	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND
WSTP065	3	Made Ground			ND					ND										ND									ND	ND	ND	ND	ND

Coed Darcy Urban Village

Historical Investigation_Upper and MiddleTerraces (PAHs)

Sample	Depth (m bgl)	Strata	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(b)Anthracene	Chrysene	Benzo(k)Fluoranthene	Benzo(a)Pyrene	Indeno(1,23-cd)Pyrene	Dibenzo(gh)Anthracene	Benzo(ghi)Perylene	Phenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WSMW034	0.15	nat	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	
WSMW054	0.2	nat	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	
WSMW056																		
WSMW150	0.1	mq	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	
WSMW187																		
WSMW198																		
WSMW199																		
WSTP058	1	MG	ND	ND	ND	ND	0.6	ND	1		0.6	1	1.1	0.5	0.5	ND	0.3	
WSTP059	0.5	MG	ND	ND	ND	ND	6.5	2.4	6.5		2.4	2.2	2.9	1.5	0.6	ND	0.5	
WSTP060	1	MG	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	
WSTP061	1	MG	1	ND	ND	1.6	1.8	0.3	0.8	0.7	0.6	0.7	0.8	0.3	0.3	ND	0.2	
WSTP061	1.75	MG	ND	ND	ND	ND	0.5	ND	0.3	0.3	0.4	0.3	ND	ND	ND	ND	ND	
WSTP062	0.55	Nat	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP062	1	Nat	ND	ND	ND	ND	0.3	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	
WSTP063	0.5	MG	ND	ND	ND	ND	0.7	ND	0.3	0.3	0.3	0.8	0.6	0.2	ND	ND	0.2	
WSTP063	3.2	Nat	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP100	0.9	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP101	0.4	Natural	0.6	ND	ND	ND	0.5	ND	0.5	0.4	1	1.3	ND	0.7	ND	ND	0.6	
WSTP101	1.25	MG	ND	ND	ND	ND	0.2	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	
WSTP118	0.5	Natural	0.6	0.3	2.7	3.6	13.5	4.7	21.9	16.6	14.2	15.5	31.3	14.8	10.7	3.6	7.3	
WSTP118	3	MG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP119	0.6	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP119	3.5	MG	ND	ND	ND	ND	1.9	0.2	2.8	2.4	1.3	1.9	2.4	1.2	0.7	0.2	0.7	
WSTP168	1	MG	0.9	ND	ND	1.1	2	0.3	1	1.2	0.7	1.3	1.1	0.5	0.5	ND	0.4	
WSTP169	0.5	MG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP169	1.8	MG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP174	0.45	MG	ND	ND	ND	ND	0.2	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	
WSTP174	3.9	Natural	0.3	ND	ND	0.7	0.8	ND	0.4	0.4	0.5	0.3	0.3	ND	ND	ND	ND	
WSTP175	0.3	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSTP175	1.5	Natural	ND	ND	ND	0.8	2.7	ND	0.3	0.3	ND	ND	ND	ND	ND	ND	ND	
WSTP299	0.4	MG	ND	ND	ND	9.1	ND	ND	ND	8.9	ND	ND	3.3	ND	2.3	0.8	1.3	
WSTP299	0.5	MG	0.3	ND	ND	0.9	0.3	1	0.3	1.1	0.8	1	0.6	1	0.6	ND	0.6	
MSTP119	1	MG	ND	ND	ND	0.4	0.9	0.8	0.9		0.4	1	1.5	0.8	0.1	ND	0.2	
MSTP127	1	MG	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	
MSTP140	0.5	MG	0.6	ND	ND	1.6	4.2	2.3	9.6		5.9	7.4	11.7	4.6	3.6	1.5	3.9	
WSTP061	1	MG																
WSTP061	1.75	MG																
WSTP062	0.55	MG																
WSTP062	1	nat																
WSTP064	0.4	MG																
WSTP064	1.75	nat																
WSTP102	0.5	mq																
WSTP121	0.4	nat																
WSTP121	1.6	nat																
MSTP141	0.2	MG																
MSTP141	0.2	MG																
MSTP302	0.05	nat																
MSTP345	0.1	nat																
MSTP349	0.4	MG																
P1AF013	0.2	MG																
P1AF016	0.1	nat																
P1AF016	0.5	nat																
P1AF016	1.3	nat																
P1AF017	0.2	nat																
P1AF017	0.5	nat																
P1AF017	1	nat																
P1TP014	0.1	MG																
P1TP014	0.2	nat																
P1TP014	0.4	nat																
P1TP015	0.1	MG																
P1TP015	0.4	MG																
MSTP 117	0.5	Made Ground	ND	ND	ND	ND	0.2	ND	0.2	0.1	0.1	0.1	0.1		ND	ND	ND	<0.01
MSTP 118	1	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP054	1	Natural	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP054	2	Natural	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP115	0.9	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP115	2.5	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP149	0.7	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP149	2.3	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
MSTP126	1.3	Natural	ND	ND	ND	ND	0.3	ND	0.1	0.1	0.1	0.1	0.1	ND	ND	ND	ND	<0.01
MSTP138	2	Made Ground	ND	ND	ND	ND	0.2	ND	0.1	0.1	0.1	0.1	ND		ND	ND	ND	<0.01
WSMW032	0.6	Made Ground	ND	ND	ND	ND	0.4	ND	0.6	0.5	0.6	0.6	0.5		ND	ND	ND	<0.01
WSMW049(PIT)	0.5	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSMW049(PIT)	0.6	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSMW049(PIT)	1.6	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSMW050	0.6	Made Ground	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	1.1		ND	ND	ND	<0.01
WSMW055	0.7	Natural	ND	ND	ND	ND	1.3	ND	0.8	1	3	1.9	0.7		0.5	0.3	0.5	
WSMW055	1.1	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP148	0.5	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP148	2	Natural	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP169	0.5	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP169	1.8	Made Ground	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	<0.01
WSTP179	0.5	Made Ground	ND	ND	ND	ND	ND	ND	0.3	0.2	ND	ND	ND		ND	ND	ND	<0.01
WSTP179	1.9	Made Ground	ND	ND	ND	ND	0.3	ND	0.2	0.2	ND	ND	ND		ND	ND	ND	<0.01
MSMW054	1.5		ND	ND	ND	ND	0.2	ND	0.7	0.7	0.6	0.5	0.4	0.2	ND	ND	ND	
MSTP145	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MSTP146	0.5		ND	ND	ND	ND	0.1	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	
MSTP151	0.75		ND	ND	ND	ND	8.7	ND	ND	0.7	0.5	0.4	0	ND	ND	ND	ND	
WSTP152	1.1		1.39	0.9	0.8	7.3	2	10.7	9	6.3	6.4	9.3	6.2	2.9	1.4	3.2	ND	
MSTP156	0.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW019	0.5		ND	ND	ND	ND	0.3	ND	ND	0.2	ND	0.5	0.3	ND	ND	ND	ND	
WSMW021	0.5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW021	1.1		0.5	ND	ND	ND	5.4	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW023	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW023	0.5		ND	ND	ND	ND	ND	ND	0.4	0.6	0.4	0.3	ND	ND	ND	ND	ND	
WSMW023	0.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW051	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WSMW082	0.5		ND	ND	ND	1.9	4.4	0.3	ND	ND	0.5	0.4	0.5	ND	ND	ND	ND	
WSMW082	3.2		ND	ND	ND	0.3	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	ND	ND	
WSTP036	0.3		ND	ND	ND	ND	ND	ND	0.4	0.3	0.5	0.4	0.2	ND	ND			

Historic Upper and Middle terrace groundwater

Sample Location	C5 - C6, aliphatic µg/l	C6 - C8, aliphatic µg/l	C8 - C10, aliphatic µg/l	C10 - C12, aliphatic µg/l	C12 - C16, aliphatic µg/l	C16 - C21, aliphatic µg/l	C21 - C35, aliphatic µg/l	C16 - C35, aliphatic µg/l	Total aliphatics >C5-C35 µg/l	C6 - C7, aromatic µg/l	C7 - C8, aromatic µg/l	C8 - C10, aromatic µg/l	C10 - C12, aromatic µg/l	C12 - C16, aromatic µg/l	C16 - C21, aromatic µg/l	C21 - C35, aromatic µg/l
MSMW055																
MSMW150																
MSMW187	ND	ND	545	713						ND	ND	ND	ND			
MSMW199		ND	ND	ND						ND	ND	ND	13			
WSMW034		ND	ND	ND						ND	ND	ND	ND			
WSMW054		ND	ND	ND						ND	ND	ND	ND			
WSMW056		ND	ND	ND						ND	ND	ND	ND			
WSMW150		ND	ND	ND						ND	ND	ND	ND			
MSMW060	37	252	451	798						ND	ND	ND	36	ND	ND	ND
MSMW147	215	644	1170	660	ND		ND			73	84	299	677	1160	ND	ND
MSMW199	ND	545	713	693						ND	ND	ND	13	ND	ND	ND
MSMW200	24	150	479	1170						ND	ND	58	38	ND	ND	ND
WSMW059	278	109	ND	ND	ND		ND			ND	ND	89	391	296	ND	ND
WSMW079	962	598	ND	361	177					ND	ND	254	213	382	ND	ND
WSTP121	ND	ND	ND	ND	ND		ND			ND	ND	ND	ND	ND	ND	ND
P1AF007	249	5540	17100	27600	2510		979			ND	91	906	6200	15800	2330	412
P1AF008	ND	395	1660	4370	680		ND			ND	ND	ND	778	2560	ND	ND
P1AF013	78	764		2880	ND		ND			ND	ND	388	1360	1830	171	ND
P1AF014	ND	ND	ND	ND	ND		1730			ND	ND	ND	ND	ND	ND	ND
P1AF016	ND	ND	ND	ND	ND		ND			ND	ND	ND	373	1050	ND	ND
P1AF017	ND	ND	ND	ND	ND		939			ND	ND	ND	ND	ND	ND	ND
P1BH027	ND	ND	ND	ND	ND		ND			ND	ND	ND	ND	ND	ND	ND
WSMW060																
MSMW146		56	224	1250	3370			1550								
MSMW148		22000	16900	17800	97300			27000				63	434	919		
WSMW017			242		2480			14430					115	1850	3690	13900
WSMW020				56	247			3350								560
WSMW021					106								87	237		
WSMW022s													92	438		
WSMW023d			90	383	944			4126					123	393		1060
WSMW051					214			329								449
WSMW053					297			149					258	964		348
WSMW082s				63												

Historic Upper and Middle terrace groundwater

[illegible]

y Urban Village

estigation Upper and MiddleTerraces (Metals and TPH)

Depth (m bgl)	Strata	Arsenic as As, dry weight mg/kg	Cadmium as Cd, dry weight mg/kg	Chromium as Cr, dry weight mg/kg	Copper as Cu, dry weight mg/kg	Lead as Pb, dry weight mg/kg	Mercury as Hg, dry weight mg/kg	Nickel as Ni, dry weight mg/kg	Selenium as Se, dry weight mg/kg	Vanadium as V, dry weight mg/kg	Zinc as Zn, dry weight mg/kg	VPH >C5 C6, aliphatic mg/kg	VPH >C6 C8, aliphatic mg/kg	VPH >C8 C10, aliphatic mg/kg	EPH >C10 - C12, aliphatic mg/kg	EPH >C12 - C16, aliphatic mg/kg	EPH >C16 - C21, aliphatic mg/kg	EPH >C21 - C35, aliphatic mg/kg	EPH >C16 - C35, aliphatic mg/kg	VPH >C6 C7, aromatic mg/kg	VPH >C7 C8, aromatic mg/kg	VPH >C8 C10, aromatic mg/kg	EPH >C10 - C12, aromatic mg/kg	EPH >C12 - C16, aromatic mg/kg	EPH >C16 C21, aromatic mg/kg
0.7	Made Ground	590	10	20	2000	5300	<1	67	<3	38	9800	<0.200	0.351	9.31	<10	230	200	76		<0.200	<0.200	<0.200	<10	<10	<10
0.4	Made Ground	620	14	23	2400	5200	<1	67	<3	36	12000														
0.1	Made Ground	350	8	18	1000	5000	<1	59	<3	77	7800														
0.2	Made Ground	160	7	21	830	2000	<1	53	<3	23	4100														
0.4	Made Ground	70	2	7	190	670	<1	43	<3	28	1600	<0.100	0.137	3.7	13	180	170	180		<0.100	<0.100	<0.100	1	12	16
1.2	Natural	190	5	13	350	2000	<1	57	<3	35	4600														
0.3	Made Ground	920	16	26	3800	8000	<1	80	<3	43	12000														
0.5	Made Ground	230	6	19	1300	2600	<1	46	<3	48	3600	<0.100	<0.100	0.178	(9) <10	38	38	65		<0.100	<0.100	<0.100	<10	<10	<10
0.9	Natural	22	<1	10	65	190	<1	21	<3	12	300	<0.100	0.732	10.1	230	770	320	41		<0.100	<0.100	0.794	2	21	21
1.5	Natural	39	2	18	110	270	<1	45	<3	22	600	<0.100	1.25	4.53	9	100	48	28		<0.100	<0.100	0.168	<1	2	3
0.2	Made Ground	880	14	22	2400	6900	<1	65	<3	39	13000	<0.200	0.772	13.8	150	1000	1100	1400		<0.200	<0.200	<0.200	<10	34	170
1.2	Natural	130	3	17	310	1400	<1	46	<3	20	2600	<0.100	0.153	1.65	59	330	340	450		<0.100	<0.100	<0.100	<1	9	41
0.6	Made Ground	920	15	29	4100	4600	<1	83	<3	45	7600	<0.100	<0.100	0.177	2	30	52	79		<0.100	<0.100	<0.100	<1	1	2
1.6	Natural	41	2	17	220	190	3	35	<3	19	310	<0.100	<0.100	0.241	41	250	170	220		<0.100	<0.100	<0.100	<1	12	42
0.7	Made Ground	77	2	23	320	800	<1	32	<3	31	3200	<0.100	0.288	1.09	4	90	190	190		<0.100	<0.100	1.36	<1	4	16
0.7	Natural	23	1	12	110	190	<1	30	<3	16	500	2.52	44.8	31.1	20	260	580	570		<0.400	<0.400	23.3	<1	20	100
0.3	Made Ground	130	3	20	410	920	<1	31	<3	29	6300	<0.100	<0.100	0.558	14	490	1100	1100		<0.100	<0.100	0.12	<10	27	120
0.2	Made Ground	18	1	15	100	190	<1	25	<3	16	370	<0.100	0.259	3.98	100	660	990	720		<0.100	<0.100	0.482	2	54	230
0.5	Made Ground	39	2	17	140	260	<1	25	<3	20	690														
0.4	Made Ground	130	3	15	480	1500	<1	23	<3	18	6500														
0.7	Made Ground	78	2	15	230	1000	<1	25	<3	18	1900	<0.400	0.717	5.79	18	560	240	12		<0.400	<0.400	<0.400	<1	25	19
0.6	Made Ground	140	4	16	380	1500	<1	27	<3	22	2900	<0.100	0.178	2.02	10	240	150	15		<0.100	<0.100	<0.100	<1	7	8
0.3	Made Ground	450	8	16	1700	9100	<1	58	<3	23	12000														
0.1	Made Ground	160	4	30	760	3000	<1	52	<3	60	4000														
0.6	Made Ground	270	4	23	1300	3500	<1	49	<3	32	3600	<0.100	<0.100	0.369	2	20	29	18		<0.100	<0.100	<0.100	<1	<1	<1
0.9	Natural	22	2	16	140	390	<1	28	<3	17	750	<0.100	0.153	1.25	930	4900	4500	4300		<0.100	<0.100	<0.100	<10	160	640
0.3	Made Ground	380	6	22	1600	3100	<1	48	<3	27	7400														
0.6	Made Ground	100	2	18	370	910	<1	27	<3	17	1900	<0.100	<0.100	<0.100	2	16	36	64		<0.100	<0.100	<0.100	<1	<1	1
0.5	Made Ground	320	5	26	1500	2200	<1	55	<3	32	4700														
1.3	Natural	22	1	11	100	120	<1	25	<3	12	340														
0.2	Natural	310	6	44	470	7200	<1	59	<3	47	10000														
0.7	Natural	14	1	15	45	180	<1	48	<3	17	320	<0.100	<0.100	<0.100	<1	4	8	9		<0.100	<0.100	<0.100	<1	<1	<1
0.3	Made Ground	75	2	45	210	1800	<1	61	<3	87	2500	<0.100	<0.100	<0.100	<10	<20	<10	<40		<0.100	<0.100	<0.100	<10	<10	<10
0.5	Natural	20	<1	15	44	200	<1	23	<3	15	440	<0.100	<0.100	<0.100	1	12	20	13		<0.100	<0.100	<0.100	<1	<1	<1
0.4	Natural	8	<1	11	16	21	<1	20	<3	12	63	<0.100	<0.100	<0.100	<1	2	14	220		<0.100	<0.100	<0.100	<1	1	<1
0.4	Made Ground	8	<1	12	20	36	<1	19	<3	14	67	<0.100	<0.100	<0.100	16	30	5	110		<0.100	<0.100	<0.100	<1	<1	<1
0.3	Made Ground	14	1	16	35	47	<1	40	<3	15	110	<0.100	<0.100	<0.100	<1	5	10	14		<0.100	<0.100	<0.100	<1	<1	1
1.1	Natural	10	<1	11	20	17	<1	22	<3	12	64	<0.100	<0.100	<0.100	<1	<2	<1	<4		<0.100	<0.100	<0.100	<1	<1	<1
0.1	Made Ground	11	1	21	44	280	<1	33	<3	15	290	<0.100	<0.100	<0.100	<10	<20	88	3000		<0.100	<0.100	<0.100	<10	<10	<10
0.6	Natural	77	3	21	430	1000	<1	48	<3		1700														
1.5	Natural	22	1	18	58	50	<1	39	<3		140														
1.1	Natural	25	1	18	68	230	<1	35	<3		370	<0.100	<0.100	0.169	<1	6	12	24		<0.100	<0.100	<0.100	<1	3	7
0.6	Natural	73	2	18	350	810	<1	42	<3		1100	<0.400	0.965	25.7	2	22	46	70		<0.400	<0.400	<0.400	31	140	140
1.8	Natural	21	1	18	74	140	<1	44	<3		270														
0.7	Natural	87	4	23	680	820	<1	48	<3		1600														
0.4	Natural	13	<1	18	30	50	<1	43	<3		130														
0.7	Natural	120	6	32	480	27000	<1	57	<3		9200														
0.5	Made Ground	17	<1	18	41	180	<1	40	<3		250														
1.8	Natural	16	<1	18	34	120	<1	43	<3		200	<0.100	0.126	6.45	<1	5	11	12		<0.100	<0.100	<0.100	2	25	33
0.6	Made Ground	21	<1	16	40	160	<1	32	<3		360	<0.100	<0.100	<0.100	<1	<2	<1	<4		<0.100	<0.100	<0.100	<1	<1	<1
0.5	Made Ground	55	2	18	110	890	<1	31	<3		1500														
0.5	Made Ground	14	1	22	55	90	<1	46	<3		260														
0.20-	Made Ground																								
0.70-	Made Ground	<0.6	0.681	75.8	84	<0.7	<0.14	217	<1	51	52.1	<0.01	0.0986	5.31	4.92	71.5	120	280		<0.01	0.0134	3.54	3.28	53.2	24.7
0.20-	Made Ground																								
0.20-	Made Ground	16.6	0.847	17.6	40.6	67.7	<0.14	24.2	<1	16.8	177	<0.01	0.0132	0.0264	0.199	19.6	58	183		<0.01	<0.01	0.022	0.133	35.5	9.83
0.50-	Made Ground																								
1.50-	Made Ground	<0.6	0.651	50.9	74.7	<0.7	<0.14	199	<1	38.1	48.9	0.0242	0.547	0.869	1.55	41.4	79.7	641		0.0253	0.15	0.58	1.03	37.6	16.5
0.20-	Made Ground																								
0.50-	Made Ground	17.4	0.789	13.3	37.2	43.9	5.05	19.9	<1	16.1	133	0.0101	0.171	0.643	1.54	63.8	120	536		0.0694	0.225	0.442	1.02	79	51.3
0.20-	Made Ground																								
0.80-	Made Ground	13.3	1.2	23	51.2	57.8	<0.14	31.1																	

Historical Investigation Upper and Middle Terraces (PAHs)

Sample	Depth (m bgl)	Strata	1,1,1,2-Tetrachloroethane µg/kg	1,1,1-Trichloroethane µg/kg	1,1,1,2-Tetrachloroethane µg/kg	1,1,1,2-Trichloroethane µg/kg	1,1-Dichloroethane µg/kg	1,1-Dichloroethylene µg/kg	1,2-Dichloroethane µg/kg	Bromomethane µg/kg	Carbon tetrachloride µg/kg	Chlorobenzene µg/kg	Chloroethane µg/kg	Chloroform µg/kg	Chloromethane µg/kg	Cis-1,2-Dichloroethylene µg/kg	Cis-1,3-Dichloropropene µg/kg	Dibromomethane µg/kg	Dichlorodifluoromethane µg/kg	Dichloromethane µg/kg	Tetrachloroethylene µg/kg	Trans-1,2-Dichloroethene µg/kg	Trichloroethylene µg/kg	Vinyl chloride µg/kg	benzene µg/kg	toluene µg/kg	ethylbenzene µg/kg	m&p-xylene µg/kg	o-xylene µg/kg	
TA1 02	0.7	Made Ground																							<20	<20	<20	<20	<20	
TA1 08	0.4	Made Ground																							<10	<10	<10	<10	<10	
TA1 11	0.5	Made Ground	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 12	0.9	Natural																							<10	<10	<10	<10	<10	
TA1 13	1.5	Natural																							<10	<10	<10	14	<10	
TA1 14	0.2	Made Ground																							<20	<20	<20	<20	<20	
TA1 14	1.2	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 15	0.6	Made Ground																							<10	<10	<10	<10	<10	
TA1 15	1.6	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 16	0.7	Made Ground																							<10	14	63	210	150	
TA1 17	0.7	Natural																							<40	160	1100	8900	4100	
TA1 19	0.3	Made Ground																							<10	<10	<10	<10	<10	
TA1 21	0.2	Made Ground																							<10	<10	<10	20	22	
TA1 24	0.7	Made Ground																							<40	<40	<40	<40	<40	
TA1 25	0.6	Made Ground																							<10	<10	<10	<10	<10	
TA1 28	0.6	Made Ground																							<10	<10	<10	<10	<10	
TA1 29	0.9	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 31	0.6	Made Ground	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 34	0.7	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 36	0.3	Made Ground	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 38	0.5	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 39	0.7	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 40	0.4	Made Ground																							<10	<10	<10	<10	<10	
TA1 41	0.3	Made Ground	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 41	1.1	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA1 42	0.1	Made Ground	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA2 03	1.8	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
TA2 06	0.7	Natural	<50	<50	<50			<50	<50		<50	<50				<50			<50	<50	<50	<50	<50	<50	<10	<10	<10	<10	<10	
MTV001	0.2	Made Ground																												
MTV001	0.7	Made Ground																							<10	13.4	<3	<6	<3	
MTV002	0.2	Made Ground																												
MTV003	0.2	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	5.5	<3	<6	<3		
MTV004	0.5	Made Ground																							25.3	150	<3	<6	<3	
MTV004	1.6	Made Ground																												
MTV005	0.2	Made Ground																												
MTV005	0.5	Made Ground	<10	<7	<10				<5		<14	<5				33.1			<10	<5	<11	<9	<10	69.4	225	<3	13.4	<3		
MTV006	0.2	Made Ground																												
MTV006	0.8	Made Ground																							26.6	596	<3	<6	<3	
MTV007	0.1	Made Ground																												
MTV007	0.4	Made Ground	<10	17.6	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	54.1	<3	<6	<3		
MTV008	0.2	Made Ground																							<10	4.39	<3	<6	<3	
MTV009	0.4	Made Ground																							<10	4.39	<3	<6	<3	
MTV009	0.9	Made Ground																							<10	4.39	<3	<6	<3	
MTV010	0.3	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	118	<3	<6	<3		
MTV010	1.3	Made Ground																							<10	3.3	<3	<6	<3	
MTV011	0.5	Made Ground																							<10	3.3	<3	<6	<3	
MTV011	1.2	Made Ground																							<10	3.3	<3	<6	<3	
MTV013	0.2	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	5.65	<3	<6	<3		
MTV015	0.4	Made Ground																							<10	<2	<3	<6	<3	
MTV015	1	Made Ground																							<10	<2	<3	<6	<3	
MTV016	0.3	Made Ground																							<10	<2	<3	<6	<3	
MTV016	0.8	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	<2	<3	<6	<3		
MTV017	0.3	Made Ground																							<10	<2	<3	<6	<3	
MTV017	0.8	Made Ground																							<10	<2	<3	<6	<3	
MTV018	0.2	Made Ground																							<10	<2	<3	<6	<3	
MTV019	0.3	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	10.1	21.3	<6	<3		
MTV020	0.1	Made Ground																							<10	<2	<3	<6	<3	
MTV020	0.7	Made Ground																							<10	<2	<3	<6	<3	
MTV021	0.3	Made Ground																							<10	<2	<3	<6	<3	
MTV021	0.9	Made Ground	<10	26.5	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	3.28	<3	<6	<3		
MTV022	0.2	Made Ground																							<10	<2	<3	<6	<3	
MTV023	0.2	Made Ground																							<10	<2	<3	<6	<3	
MTV023	0.6	Made Ground																							<10	<2	<3	<6	<3	
MTV024	0.4	Made Ground	<10	<7	<10				<5		<14	<5				<5			<10	<5	<11	<9	<10	<10	<2	<3	<6	<3		
MTV024	0.9	Made Ground																							<10	<2	<3	<6	<3	
MTV025	0.3	Made Ground																												

Historical Investigation Upper and Middle Terraces (PAHs)

Sample	Depth (m bgl)	Strata	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)Anthracene	Chrysene	Benzo(b)Fluoranthene	Benzo(k)Fluoranthene	Benzo(a)Pyrene	Indeno(1,2,3-cd)Pyrene	Dibenzo(ah)Anthracene	Benzo(ghi)Perylene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TA1 02	0.7	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 04	0.4	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 05	0.1	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 07	0.2	Made Ground	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.5	0.4	0.3	0.4	0.4	0.2	0.2	<0.1	<0.1	<0.1
TA1 08	0.4	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	<0.1	<0.1	0.1
TA1 08	1.2	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1
TA1 10	0.3	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.4	0.4	0.2	0.4	0.4	0.2	0.2	0.1	<0.1	0.1
TA1 11	0.5	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.3	0.3	0.2	0.3	0.3	0.2	0.2	<0.1	<0.1	<0.1
TA1 12	0.9	Natural	0.1	<0.1	0.3	0.3	0.3	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 13	1.5	Natural	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 14	0.2	Made Ground	0.1	<0.1	0.1	0.2	0.3	0.1	0.5	0.9	0.3	0.7	0.4	0.3	0.3	0.1	0.1	0.2
TA1 14	1.2	Natural	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.1	0.2	0.1	0.4	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 15	0.6	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.2	0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 15	1.6	Natural	0.2	<0.1	0.2	0.3	2.1	0.2	1	1.2	0.7	1.4	0.9	0.2	0.5	0.2	0.2	0.3
TA1 16	0.7	Made Ground	<0.1	<0.1	<0.1	0.1	0.4	<0.1	0.6	0.5	0.4	0.5	0.5	0.3	0.3	0.1	<0.1	0.1
TA1 17	0.7	Natural	<0.1	<0.1	0.1	0.4	1.2	<0.1	0.1	0.2	0.3	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 19	0.3	Made Ground	<0.1	<0.1	<0.1	0.2	0.8	0.2	0.6	0.7	0.5	0.9	0.7	0.4	0.1	<0.1	<0.1	0.1
TA1 21	0.2	Made Ground	0.6	<0.1	0.3	0.7	1.6	0.2	0.3	0.5	0.3	0.6	0.5	0.2	0.2	<0.1	<0.1	0.1
TA1 22	0.5	Made Ground	0.1	<0.1	0.1	0.2	0.5	0.1	0.6	0.6	0.4	0.5	0.5	0.3	0.1	<0.1	<0.1	0.1
TA1 23	0.4	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 24	0.7	Made Ground	<0.1	<0.1	0.1	<0.1	0.2	<0.1	0.3	0.3	0.2	0.2	0.3	0.2	<0.1	<0.1	<0.1	<0.1
TA1 25	0.6	Made Ground	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.3	0.3	0.2	0.3	0.3	0.2	<0.1	<0.1	<0.1	0.1
TA1 26	0.3	Made Ground	0.5	0.2	0.3	0.8	0.8	0.1	0.4	0.4	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2
TA1 27	0.1	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 28	0.6	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 29	0.9	Natural	0.1	<0.1	<0.1	0.2	0.5	<0.1	0.1	0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 30	0.3	Made Ground	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.5	0.6	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1
TA1 31	0.6	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 32	0.5	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2
TA1 32	1.3	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 33	0.2	Natural	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 34	0.7	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 36	0.3	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.1	0.2
TA1 38	0.5	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 39	0.4	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 40	0.4	Made Ground	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 41	0.3	Made Ground	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.4	0.3	0.3	0.4	0.5	0.3	0.1	<0.1	<0.1	0.1
TA1 41	1.1	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA1 42	0.1	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.3	0.2	0.3	0.6	0.3	0.2	0.2	0.2	0.2
TA2 01	0.6	Natural	0.2	<0.1	<0.1	<0.1	0.4	0.1	0.3	0.5	0.3	0.5	0.6	0.3	0.3	0.9	0.3	1.2
TA2 01	1.5	Natural	0.1	<0.1	<0.1	<0.1	1.9	0.2	0.4	0.8	0.5	1.1	0.4	0.2	0.3	<0.1	0.5	0.5
TA2 02	1.1	Natural	<0.1	<0.1	<0.1	<0.1	0.5	0.1	0.3	0.4	0.2	0.3	0.3	0.1	0.2	0.1	0.1	0.3
TA2 03	0.6	Natural	0.1	<0.1	0.1	0.3	0.7	0.4	0.4	0.8	0.3	0.6	0.4	0.2	0.1	<0.1	<0.1	0.2
TA2 03	1.8	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA2 04	0.7	Natural	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.1	0.2	<0.1	0.2	0.2	<0.1	0.1	<0.1	<0.1	0.1
TA2 05	0.4	Natural	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
TA2 06	0.7	Natural	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
TA2 07	0.5	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA2 07	1.8	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TA2 08	0.6	Made Ground	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.8	0.6	0.5	0.5	0.7	0.3	0.1	<0.1	<0.1	0.2
TA2 09	0.5	Made Ground	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	6.2	7.1	2.9	2.6	4.6	2.1	0.9	0.4	1.1	1.1
TA2 10	0.5	Made Ground	0.1	<0.1	<0.1	<0.1	0.6	<0.1	0.2	0.3	0.2	0.9	0.2	0.1	<0.1	<0.1	<0.1	0.1
MTV001	0.20-	Made Ground																
MTV001	0.70-	Made Ground	0.178	0.0527	0.113	0.162	0.534	0.19	1.34	1.28	0.941	0.818	1.46	0.485	1.05	0.56	0.219	0.688
MTV002	0.20-	Made Ground																
MTV003	0.20-	Made Ground	<.1	<.1	<.1	<.1	0.617	0.125	0.746	0.685	0.43	0.527	0.475	0.348	0.542	0.35	<.1	0.37
MTV004	0.50-	Made Ground																
MTV004	1.50-	Made Ground	0.131	<12	0.0546	0.0811	0.364	0.0959	0.525	0.465	0.278	0.258	0.411	0.139	0.288	0.156	0.0553	0.226
MTV005	0.20-	Made Ground																
MTV005	0.50-	Made Ground	0.173	<.1	<.1	0.121	0.629	0.155	1.13	0.99	0.693	0.783	0.734	0.577	0.95	0.63	0.187	0.651
MTV006	0.20-	Made Ground																
MTV006	0.80-	Made Ground	0.128	<12	0.0676	0.108	0.399	0.122	0.651	0.613	0.43	0.387	0.702	0.232	0.495	0.281	0.103	0.372
MTV007	0.10-	Made Ground																
MTV007	0.40-	Made Ground	0.338	<200	0.862	1.28	2.51	0.786	5.01	4.03	1.97	2.02	1.27	1.42	1.83	0.966	0.236	1.05
MTV008	0.20-	Made Ground																
MTV009	0.40-	Made Ground	0.0308	<12	0.00882	0.0186	0.112	0.0273	0.102	0.129	0.0993	0.106	0.178	0.0521	0.114	0.0794	0.0312	0.103
MTV009	0.90-	Made Ground																
MTV010	0.30-	Made Ground	<.1	<.1	<.1	<.1	0.179	<.1	0.16	0.277	<.1	0.181	0.111	<.1	<.1	<.1	<.1	<.1
MTV010	1.30-	Made Ground																
MTV011	0.50-	Made Ground	0.126	0.0635	0.0975	0.146	0.337	0.15	0.582	1.2	0.785	0.795	1.9	0.614	1.31	0.759	0.293	0.933
MTV011	1.20-	Made Ground																
MTV013	0.20-	Made Ground	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
MTV015	0.40-	Made Ground																
MTV015	1.00-	Made Ground	0.165	0.035	0.449	0.27	0.479	0.512	1.25									

Upper and Middle terrace groundwater

Sample Location	Sample Date	C5 - C6, aliphatic	C6 - C8, aliphatic	C8 - C10, aliphatic	C10 - C12, aliphatic	C12 - C16, aliphatic	C16 - C21, aliphatic	C21 - C35, aliphatic	C16 - C35, aliphatic	Total aliphatics >C5-C35	C6 - C7, aromatic	C7 - C8, aromatic	C8 - C10, aromatic	C10 - C12, aromatic	C12 - C16, aromatic	C16 - C21, aromatic	C21 - C35, aromatic	Total aromatic >C6-C35
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TAI/1	09/09	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
TAI/2	09/09	<10	<10	38	110	<10	<10	<10			<10	<10	58	170	<10	<10	<10	
TAI/3	09/09	<10	49	73	340	390	450	1200			<10	<10	110	510	140	250	840	
MSMW145	03/10	<10	<10	<10	<10	475	<10	349			<10	<10	<10	<10	152	101	389	
MSTP302	03/10	<10	<10	72.2	432	36100	1640	972			<10	<10	108	648	2870	732	489	
TA1/1	03/10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	101	48	65	
TA1/2	03/10	<10	<10	<10	122	47	<10	43			<10	<10	<10	182	58	39	88	
TA1/3	03/10	<10	<10	15.6	178	763	678	1580			<10	<10	23.3	267	204	430	1700	
WSTP121	03/10	60	<10	<10	<10	28	64	181			<10	<10	<10	<10	<10	43	179	
MSMW059	04/11	<10	161	1200	3780	215000	32200	17200			<10	<10	796	2520	40900	10000	6920	
MSMW145	04/11	<10	<10	21	52	<10	<10	<10			<10	<10	14	35	28	<10	<10	
P1AF013	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
MSMW149	04/11	63	186	116	197	1500	1310	1000			31	<10	95	131	349	534	1060	
P1AF014	04/11	<10	<10	<10	18	<10	<10	497			<10	<10	<10	12	20	<10	<10	
P1AF017	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
TA1/1	04/11	<10	<10	<10	11	<10	<10	<10			<10	<10	<10	<10	16	<10	<10	
TA1/2	04/11	<10	14	22	71	<10	<10	<10			<10	<10	18	47	13	<10	<10	
WSMW031	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW034	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW052	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW053	04/11	<10	<10	<10	10	<10	<10	<10			<10	<10	<10	<10	21	<10	<10	
WSMW056	04/11	<10	10	25	93	489	753	309			<10	<10	18	62	117	342	243	
WSMW058	04/11	<10	20	30	36	<10	<10	<10			<10	<10	21	24	<10	<10	<10	
WSTP121	04/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
TA1/1	08/11	<10	<10	11	21	<10	<10	<10			<10	<10	<10	14	66	36	<10	
TA1/2	08/11	<10	31	35	79	<10	<10	<10			<10	<10	23	53	69	23	<10	
WSMW034	08/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW051	08/11	<10	12	11	14	<10	<10	<10			<10	<10	<10	<10	4560	3290	2370	
WSMW052	08/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW058	08/11	<10	17	30	37	<10	<10	<10			<10	<10	20	25	<10	<10	<10	
WSMW149	08/11	144	440	140	212	22400	36000	47700			43	13	129	141	16500	19600	35600	
P1AF014	08/11	<10	<10	30	106	35100	5210	119000			<10	<10	20	71	11000	4510	24100	
P1AF017	08/11	<10	<10	<10	<10	<10	<10	87			<10	<10	<10	<10	<10	<10	<10	
WSMW031	08/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
WSMW056	08/11	<10	15	79	424	689	1780	814			<10	<10	57	282	78	573	782	
WSTP121	08/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	
P1AF013	08/11	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	

Upper and Middle terrace groundwater

[illegible]

Appendix F

☒☒

» Shown on prev. report

Client Contact: Selina Bamforth

Date 14.09.2009

☒☒

ISO 17025 accredited

M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Matrix: LIQUID

Location: COED DARCY

Client Contact: Selina Bamforth

Date 14.09.2009

Date 14.09.2009

☒☒

» Shown on prev. report

Client Contact: Selina Bamforth

Date 14.09.2009

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 09/09173/02/01
Client: Atkins
Client Ref. No.:

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	*	Subcontracted test
ACM	Asbestos Containing Materia	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
		EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓		NA	
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓		NA	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	✓		NA	
TM174		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID			NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry	✓		NA	
TM61/89		see TM061 and TM089 for details			NA	

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

ALcontrol Laboratories Analytical Services
Table Of Results - Appendix

Job Number: 09/09173/02/01

Client: Atkins

Client Ref. No.:

Summary of Coolbox temperatures

[illegible]

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 09/09446/02/01
Client: Atkins
Client Ref. No.: -

Report Key :

NDP No Determination Possible
 ACM Asbestos Containing Materia
 # ISO 17025 accredited

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷
 * Subcontracted test
 » Result previously reported (Incremental reports only)
 M MCERTS Accredited
 EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓		NA	
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓		NA	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	✓		NA	
TM172		EPH in Waters	✓		NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry	✓		NA	

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

ALcontrol Laboratories Analytical Services Table Of Results - Appendix

Job Number: 09/09446/02/01

Client: Atkins

Client Ref. No.: -

Summary of Coolbox temperatures

[illegible]



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date: 19 April 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110413-11
Your Reference: First 300 Water Samples 2011
Location: Coed Darcy Urban Village
Report No: 126020

We received 9 samples on Sunday April 03, 2011 and 9 of these samples were scheduled for analysis which was completed on Tuesday April 19, 2011. 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.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager





SDG:	110413-11	Location:	Coed Darcy Urban Village	Order Number:	CD0111
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126020
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3281085	MSMW077			12/04/2011
3281084	MSMW143			12/04/2011
3281082	MSMW145			11/04/2011
3281081	MSMW147			11/04/2011
3281079	P1AF008			11/04/2011
3281083	P1AF011			12/04/2011
3281080	P1AF013			11/04/2011
3281078	P1BH027			11/04/2011

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



CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

LEACH Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3281078		P1BH027						Vial	
	3281080		P1AF013						1l plastic 1l green glass bottle Vial	
	3281083		P1AF011						1l plastic 1l green glass bottle Vial	
	3281079		P1AF008						1l plastic 1l green glass bottle Vial	
Dissolved Metals by ICP-MS	3281081		MSMW147						1l plastic 1l green glass bottle Vial	
	3281082		MSMW145						1l plastic 1l green glass bottle Vial	
EPH CWG (Aliphatic) Aqueous GC (W)	3281084		MSMW143						1l plastic 1l green glass bottle Vial	
	3281085		MSMW077						1l plastic 1l green glass bottle Vial	
EPH CWG (Aromatic) Aqueous GC (W)	3281086		MSMW059						1l plastic 1l green glass bottle Vial	
GRO by GC-FID (W)										
Mercury Dissolved										
pH Value										
SVOC MS (W) - Aqueous										
TPH CWG (W)										
VOC MS (W)										

Order Number: CD0111
Report Number: 126020
Superseded Report:

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Order Number: CD0111
Report Number: 126020
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R	MSMW059	MSMW077	MSMW143	MSMW145	MSMW147	P1AF008
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Customer Sample R			Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281086	
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281085	
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281084	
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281082	
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281081	
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Chloronaphthalene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Chlorophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Methylnaphthalene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Methylphenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Nitroaniline (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
2-Nitrophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
3-Nitroaniline (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Chloroaniline (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Methylphenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Nitrophenol (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
4-Nitroaniline (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
Azobenzene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
Acenaphthylene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
Acenaphthene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
Anthracene (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
bis(2-Chloroethoxy)methan e (aq)	<1 µg/l	TM176		Saline A	12/04/2011	03/04/2011	110413-11	3281079	
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		118	<2	<2	<2	<2	<5
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<1	<1	<1	<1	<1	<1

Order Number: CD0111
Report Number: 126020
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R	P1AF011	P1AF013	P1BH027									
#	ISO17025 accredited.														
M	mCERTS accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Saline A 12/04/2011 03/04/2011 110413-11 3281083	Saline A 11/04/2011 03/04/2011 110413-11 3281080	Saline A 11/04/2011 03/04/2011 110413-11 3281078									
S	Non-conforming work.														
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 the individual compounds within the samples are not corrected for this recovery.														
Component		LOD/Units	Method												
1,2,4-Trichlorobenzene (aq)		<1 µg/l	TM176	<1	<1	<1									
1,2-Dichlorobenzene (aq)		<1 µg/l	TM176	<1	<1	<1									
1,3-Dichlorobenzene (aq)		<1 µg/l	TM176	<1	<1	<1									
1,4-Dichlorobenzene (aq)		<1 µg/l	TM176	<1	<1	<1									
2,4,5-Trichlorophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2,4,6-Trichlorophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2,4-Dichlorophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2,4-Dimethylphenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2,4-Dinitrotoluene (aq)		<1 µg/l	TM176	<1	<1	<1									
2,6-Dinitrotoluene (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Chloronaphthalene (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Chlorophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Methylnaphthalene (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Methylphenol (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Nitroaniline (aq)		<1 µg/l	TM176	<1	<1	<1									
2-Nitrophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
3-Nitroaniline (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Bromophenylphenylether (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Chloro-3-methylphenol (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Chloroaniline (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Chlorophenylphenylether (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Methylphenol (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Nitrophenol (aq)		<1 µg/l	TM176	<1	<1	<1									
4-Nitroaniline (aq)		<1 µg/l	TM176	<1	<1	<1									
Azobenzene (aq)		<1 µg/l	TM176	<1	<1	<1									
Acenaphthylene (aq)		<1 µg/l	TM176	<1	<1	<1									
Acenaphthene (aq)		<1 µg/l	TM176	<1	<1	<1									
Anthracene (aq)		<1 µg/l	TM176	<1	<1	<1									
bis(2-Chloroethyl)ether (aq)		<1 µg/l	TM176	<1	<1	<1									
bis(2-Chloroethoxy)methan e (aq)		<1 µg/l	TM176	<1	<1	<1									
bis(2-Ethylhexyl) phthalate (aq)		<2 µg/l	TM176	<2	<2	<2									
Benzo(a)anthracene (aq)		<1 µg/l	TM176	<1	<1	<1									
Butylbenzyl phthalate (aq)		<1 µg/l	TM176	<1	<1	<1									
Benzo(b)fluoranthene (aq)		<1 µg/l	TM176	<1	<1	<1									
Benzo(k)fluoranthene (aq)		<1 µg/l	TM176	<1	<1	<1									

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Report Number: 126020
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R	MSMW059	MSMW077	MSMW143	MSMW145	MSMW147	P1AF008
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Component	LOD/Units	Method	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Saline A 12/04/2011 03/04/2011 110413-11 3281086	Saline A 12/04/2011 03/04/2011 110413-11 3281085	Saline A 12/04/2011 03/04/2011 110413-11 3281084	Saline A 11/04/2011 03/04/2011 110413-11 3281082	Saline A 11/04/2011 03/04/2011 110413-11 3281081	Saline A 11/04/2011 03/04/2011 110413-11 3281079
Dibromofluoromethane**	%	TM208		106	108	107	109	109	110
Toluene-d8**	%	TM208		97.8	99	97.1	99.5	98	98.1
4-Bromofluorobenzene**	%	TM208		104	101	99.7	104	103	99.1
Dichlorodifluoromethane	<7 µg/l	TM208		<7	<7	<7	<7	<7	<7
Chloromethane	<9 µg/l	TM208		<9	<9	<9	<9	<9	<9
Vinyl chloride	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Bromomethane	<2 µg/l	TM208		<2	<2	<2	<2	<2	<2
Chloroethane	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloroethene	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon disulphide	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Dichloromethane	<3.7 µg/l	TM208		<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208		<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
trans-1,2-Dichloroethene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,1-Dichloroethane	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
cis-1,2-Dichloroethene	<2.3 µg/l	TM208		<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
2,2-Dichloropropane	<3.8 µg/l	TM208		<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
Bromochloromethane	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroform	<1.8 µg/l	TM208		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,1,1-Trichloroethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloropropene	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Carbontetrachloride	<1.4 µg/l	TM208		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-Dichloroethane	<3.3 µg/l	TM208		<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Benzene	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Trichloroethene	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	<3 µg/l	TM208		<3	<3	<3	<3	<3	<3
Dibromomethane	<2.7 µg/l	TM208		<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Bromodichloromethane	<0.9 µg/l	TM208		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
cis-1,3-Dichloropropene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Toluene	<1.4 µg/l	TM208		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
trans-1,3-Dichloropropene	<3.5 µg/l	TM208		<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,2-Trichloroethane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,3-Dichloropropane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Tetrachloroethene	<1.5 µg/l	TM208		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dibromochloromethane	<1.7 µg/l	TM208		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7



CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R		MSMW059	MSMW077	MSMW143	MSMW145	MSMW147	P1AF008
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		Saline A	Saline A	Saline A	Saline A	Saline A	Saline A
M	mCERTS accredited.				12/04/2011	12/04/2011	12/04/2011	11/04/2011	11/04/2011	11/04/2011
S	Non-conforming work.				03/04/2011	03/04/2011	03/04/2011	03/04/2011	03/04/2011	03/04/2011
aq	Aqueous / settled sample.				110413-11	110413-11	110413-11	110413-11	110413-11	110413-11
diss.filt	Dissolved / filtered sample.				3281086	3281085	3281084	3281082	3281081	3281079
tot.unfilt	Total / unfiltered sample.									
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
1,2-Dibromoethane	<2.3 µg/l	TM208			<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
					#	#	#	#	#	#
Chlorobenzene	<3.5 µg/l	TM208			<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
					#	#	#	#	#	#
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208			<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
					#	#	#	#	#	#
Ethylbenzene	<2.5 µg/l	TM208			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
					#	#	#	#	#	#
m,p-Xylene	<2.5 µg/l	TM208			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
					#	#	#	#	#	#
o-Xylene	<1.7 µg/l	TM208			<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
					#	#	#	#	#	#
Styrene	<1.2 µg/l	TM208			<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
					#	#	#	#	#	#
Bromoform	<3 µg/l	TM208			<3	<3	<3	<3	<3	<3
					#	#	#	#	#	#
Isopropylbenzene	<1.4 µg/l	TM208			<1.4	<1.4	<1.4	1.63	<1.4	<1.4
					#	#	#	#	#	#
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208			<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
1,2,3-Trichloropropane	<7.8 µg/l	TM208			<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
					#	#	#	#	#	#
Bromobenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
Propylbenzene	<2.6 µg/l	TM208			<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
					#	#	#	#	#	#
2-Chlorotoluene	<1.9 µg/l	TM208			<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
					#	#	#	#	#	#
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
					#	#	#	#	#	#
4-Chlorotoluene	<1.9 µg/l	TM208			<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
					#	#	#	#	#	#
tert-Butylbenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208			<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
					#	#	#	#	#	#
sec-Butylbenzene	<1.7 µg/l	TM208			<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
					#	#	#	#	#	#
4-iso-Propyltoluene	<2.6 µg/l	TM208			<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
					#	#	#	#	#	#
1,3-Dichlorobenzene	<2.2 µg/l	TM208			<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
					#	#	#	#	#	#
1,4-Dichlorobenzene	<2.7 µg/l	TM208			<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
					#	#	#	#	#	#
n-Butylbenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
					#	#	#	#	#	#
1,2-Dichlorobenzene	<3.7 µg/l	TM208			<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
1,2-Dibromo-3-chloropropene	<9.8 µg/l	TM208			<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208			<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
					#	#	#	#	#	#
Hexachlorobutadiene	<2.5 µg/l	TM208			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
					#	#	#	#	#	#
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
					#	#	#	#	#	#
Naphthalene	<3.5 µg/l	TM208			<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
					#	#	#	#	#	#
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208			<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
					#	#	#	#	#	#
1,3,5-Trichlorobenzene	<10 µg/l	TM208			<10	<10	<10	<10	<10	<10



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Order Number: CD0111
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Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	P1AF011	P1AF013	P1BH027			
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Saline A 12/04/2011 03/04/2011 110413-11 3281083	Saline A 11/04/2011 03/04/2011 110413-11 3281080	Saline A 11/04/2011 03/04/2011 110413-11 3281078			
S	Non-conforming work.							
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 the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method	107	107	105			
Dibromofluoromethane**	%	TM208						
Toluene-d8**	%	TM208	99.8	97.2	99.5			
4-Bromofluorobenzene**	%	TM208	102	102	102			
Dichlorodifluoromethane	<7 µg/l	TM208	<7	<7	<7			
Chloromethane	<9 µg/l	TM208	<9	<9	<9			
Vinyl chloride	<1.2 µg/l	TM208	<1.2	<1.2	<1.2			
Bromomethane	<2 µg/l	TM208	<2	<2	<2			
Chloroethane	<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
1,1-Dichloroethene	<1.2 µg/l	TM208	<1.2	<1.2	<1.2			
Carbon disulphide	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
Dichloromethane	<3.7 µg/l	TM208	<3.7	<3.7	<3.7			
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	<1.6	<1.6			
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	<1.2	<1.2			
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	<2.3	<2.3			
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	<3.8	<3.8			
Bromochloromethane	<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
Chloroform	<1.8 µg/l	TM208	<1.8	<1.8	<1.8			
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	<1.4	<1.4			
1,2-Dichloroethane	<3.3 µg/l	TM208	<3.3	<3.3	<3.3			
Benzene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
Trichloroethene	<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
1,2-Dichloropropane	<3 µg/l	TM208	<3	<3	<3			
Dibromomethane	<2.7 µg/l	TM208	<2.7	<2.7	<2.7			
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	<0.9	<0.9			
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
Toluene	<1.4 µg/l	TM208	<1.4	<1.4	<1.4			
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5			
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2			
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2			
Tetrachloroethene	<1.5 µg/l	TM208	<1.5	<1.5	<1.5			
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	<1.7	<1.7			



CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R	P1AF011	P1AF013	P1BH027			
#	ISO17025 accredited.								
M	mCERTS accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Saline A 12/04/2011 03/04/2011 110413-11 3281083	Saline A 11/04/2011 03/04/2011 110413-11 3281080	Saline A 11/04/2011 03/04/2011 110413-11 3281078			
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Component		LOD/Units	Method						
1,2-Dibromoethane		<2.3 µg/l	TM208						
				#	#	#			
Chlorobenzene		<3.5 µg/l	TM208	<3.5	<3.5	<3.5			
				#	#	#			
1,1,1,2-Tetrachloroethane		<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
				#	#	#			
Ethylbenzene		<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
				#	#	#			
m,p-Xylene		<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
				#	#	#			
o-Xylene		<1.7 µg/l	TM208	<1.7	<1.7	<1.7			
				#	#	#			
Styrene		<1.2 µg/l	TM208	<1.2	<1.2	<1.2			
				#	#	#			
Bromoform		<3 µg/l	TM208	<3	<3	<3			
				#	#	#			
Isopropylbenzene		<1.4 µg/l	TM208	<1.4	<1.4	<1.4			
				#	#	#			
1,1,2,2-Tetrachloroethane		<5.2 µg/l	TM208	<5.2	<5.2	<5.2			
1,2,3-Trichloropropane		<7.8 µg/l	TM208	<7.8	<7.8	<7.8			
				#	#	#			
Bromobenzene		<2 µg/l	TM208	<2	<2	<2			
				#	#	#			
Propylbenzene		<2.6 µg/l	TM208	<2.6	<2.6	<2.6			
				#	#	#			
2-Chlorotoluene		<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
				#	#	#			
1,3,5-Trimethylbenzene		<1.8 µg/l	TM208	<1.8	<1.8	<1.8			
				#	#	#			
4-Chlorotoluene		<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
				#	#	#			
tert-Butylbenzene		<2 µg/l	TM208	<2	<2	<2			
				#	#	#			
1,2,4-Trimethylbenzene		<1.7 µg/l	TM208	<1.7	<1.7	<1.7			
				#	#	#			
sec-Butylbenzene		<1.7 µg/l	TM208	<1.7	<1.7	<1.7			
				#	#	#			
4-iso-Propyltoluene		<2.6 µg/l	TM208	<2.6	<2.6	<2.6			
				#	#	#			
1,3-Dichlorobenzene		<2.2 µg/l	TM208	<2.2	<2.2	<2.2			
				#	#	#			
1,4-Dichlorobenzene		<2.7 µg/l	TM208	<2.7	<2.7	<2.7			
				#	#	#			
n-Butylbenzene		<2 µg/l	TM208	<2	<2	<2			
				#	#	#			
1,2-Dichlorobenzene		<3.7 µg/l	TM208	<3.7	<3.7	<3.7			
1,2-Dibromo-3-chloropropene		<9.8 µg/l	TM208	<9.8	<9.8	<9.8			
1,2,4-Trichlorobenzene		<2.3 µg/l	TM208	<2.3	<2.3	<2.3			
				#	#	#			
Hexachlorobutadiene		<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
				#	#	#			
tert-Amyl methyl ether (TAME)		<1 µg/l	TM208	<1	<1	<1			
				#	#	#			
Naphthalene		<3.5 µg/l	TM208	<3.5	<3.5	<3.5			
				#	#	#			
1,2,3-Trichlorobenzene		<3.1 µg/l	TM208	<3.1	<3.1	<3.1			
				#	#	#			
1,3,5-Trichlorobenzene		<10 µg/l	TM208	<10	<10	<10			



SDG:	110413-11	Location:	Coed Darcy Urban Village	Order Number:	CD0111
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126020
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10 ⁻⁷							
NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		

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



CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Test Completion Dates

Lab Sample No(s)	3281086	3281085	3281084	3281082	3281081	3281079	3281083	3281080	3281078
Customer Sample Ref.	MSMW059	MSMW077	MSMW143	MSMW145	MSMW147	P1AF008	P1AF011	P1AF013	P1BH027
AGS Ref.									
Depth									
Type	SALINE_A	SALINE_A	SALINE_A	SALINE_A	SALINE_A	SALINE_A	SALINE_A	SALINE_A	SALINE_A
Dissolved Metals by ICP-MS	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011
EPH CWG (Aliphatic) Aqueous GC (W)	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011
EPH CWG (Aromatic) Aqueous GC (W)	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011
GRO by GC-FID (W)	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011
Mercury Dissolved	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011	14-Apr-2011
pH Value	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	15-Apr-2011	14-Apr-2011
SVOC MS (W) - Aqueous	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011
TPH CWG (W)	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011	17-Apr-2011
VOC MS (W)	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011



SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

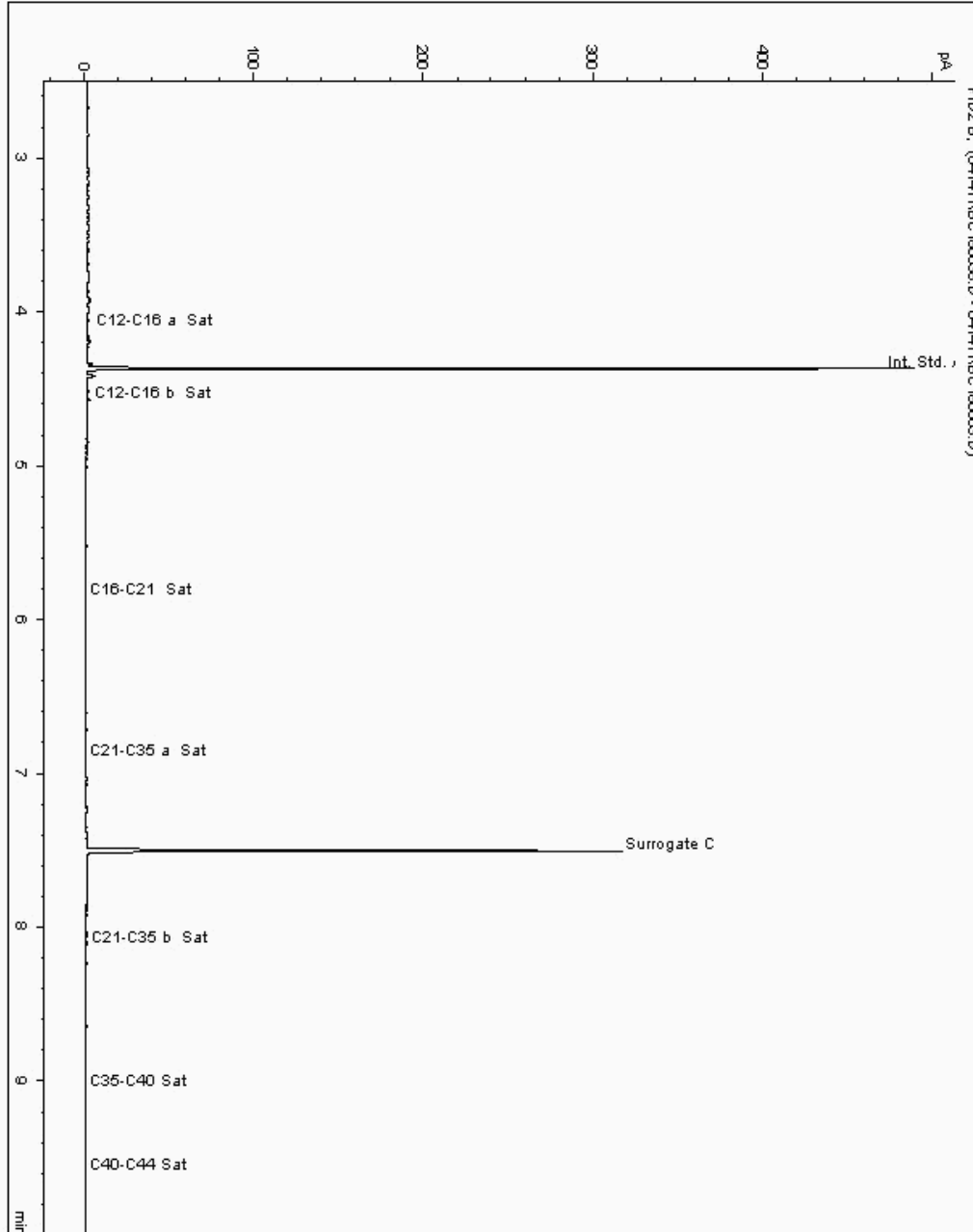
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292430
Sample ID : P1BH027

Depth :

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

Sample Identity: 3329930-3292430
Date Acquired : 15/04/11 08:07:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

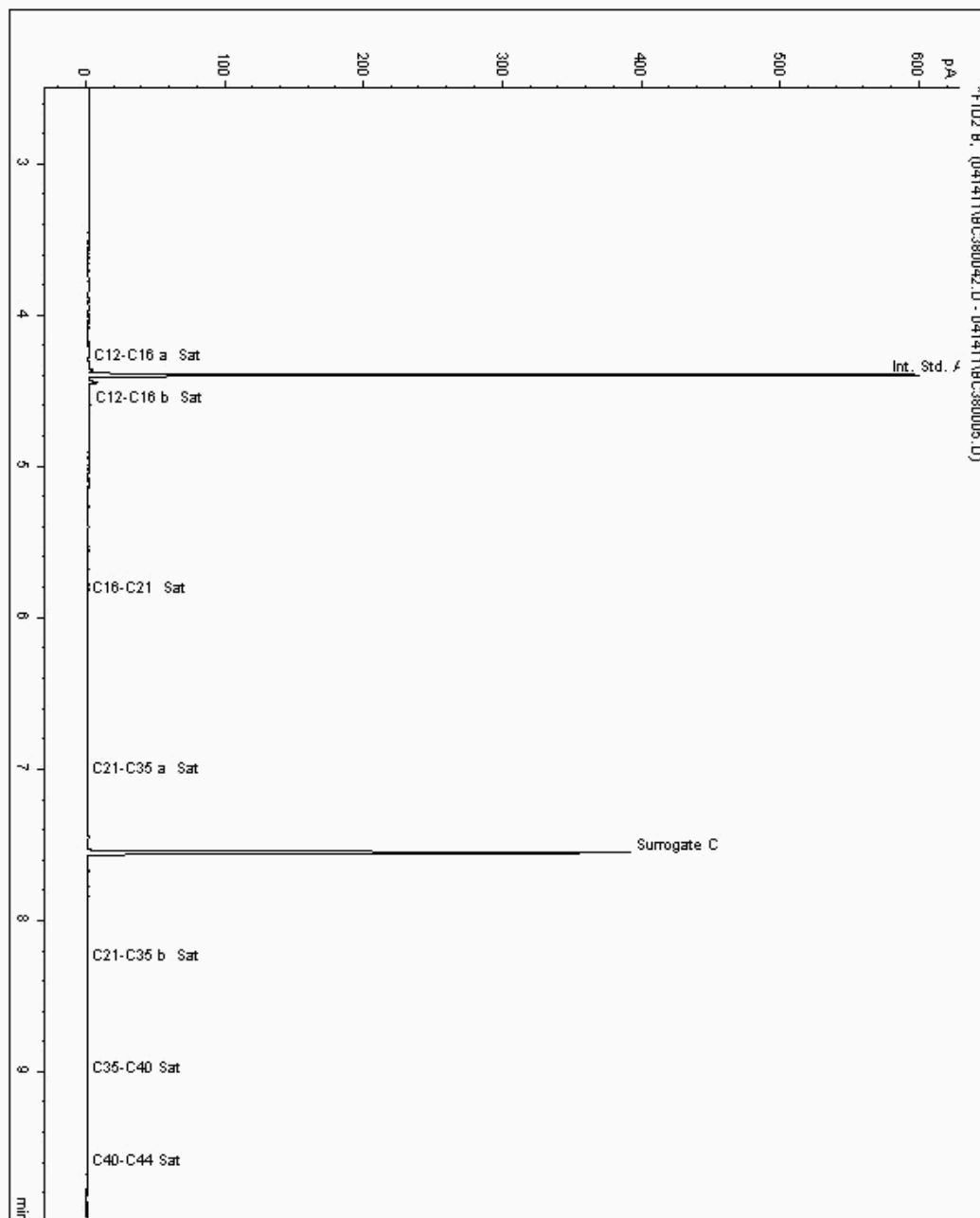
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292495
Sample ID : MSMW147

Depth :

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

Sample Identity: 3329960-3292495
Date Acquired : 15/04/11 07:27:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

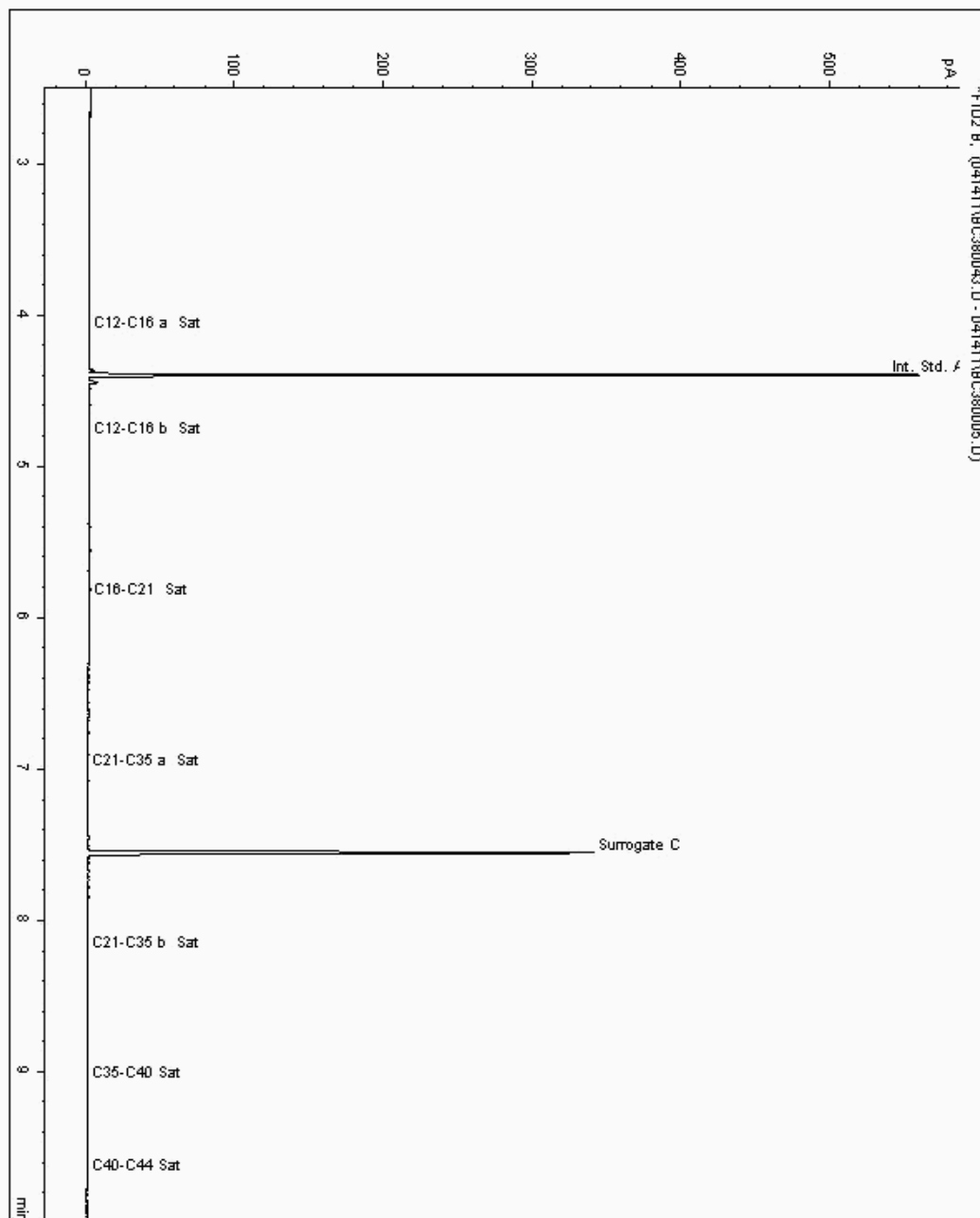
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292560
Sample ID : P1AF013

Depth :

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

Sample Identity: 3329950-3292560
Date Acquired : 15/04/11 07:45:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

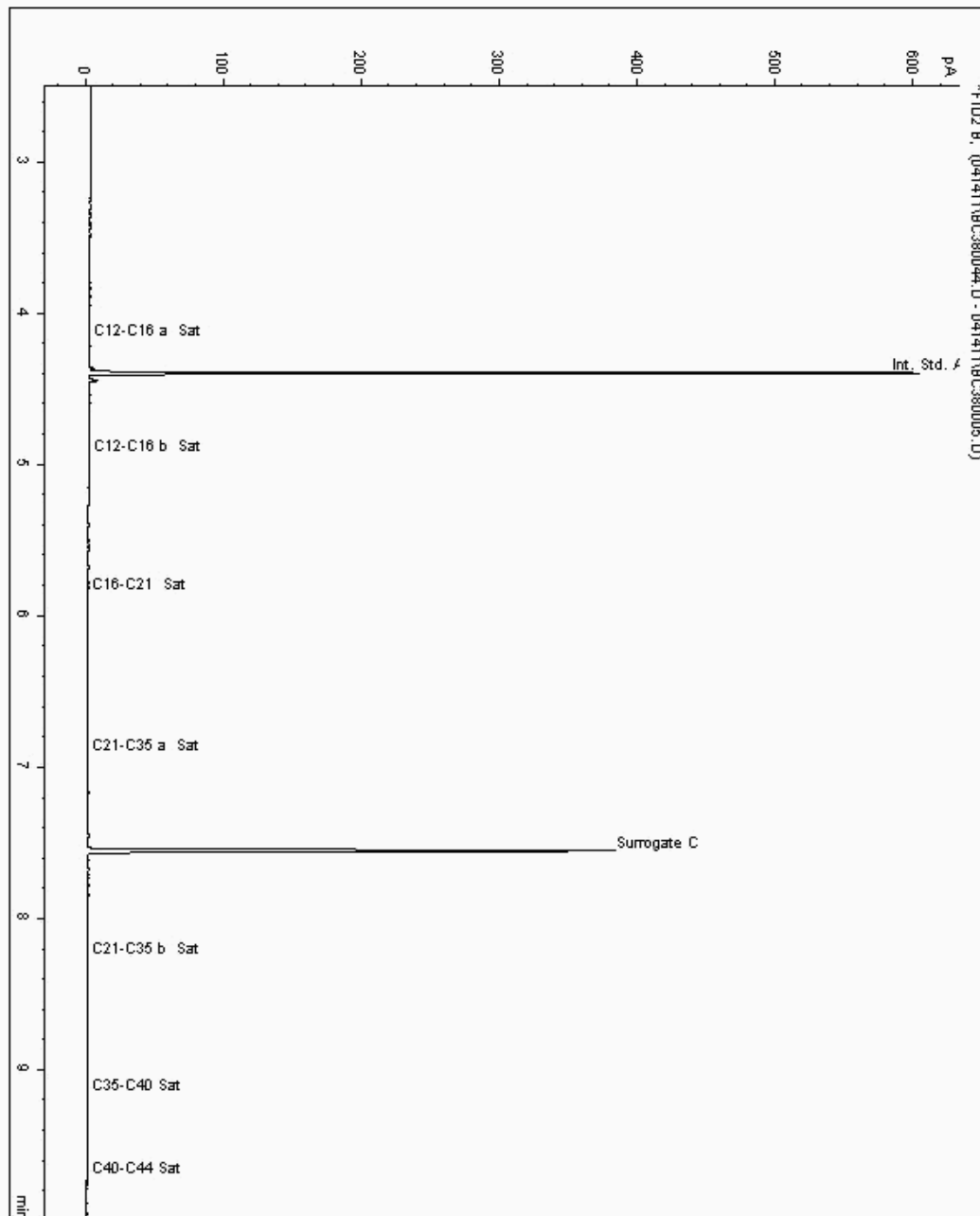
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292586
Sample ID : MSMW145

Depth :

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

Sample Identity: 3329970-3292586
Date Acquired : 15/04/11 08:03:41 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

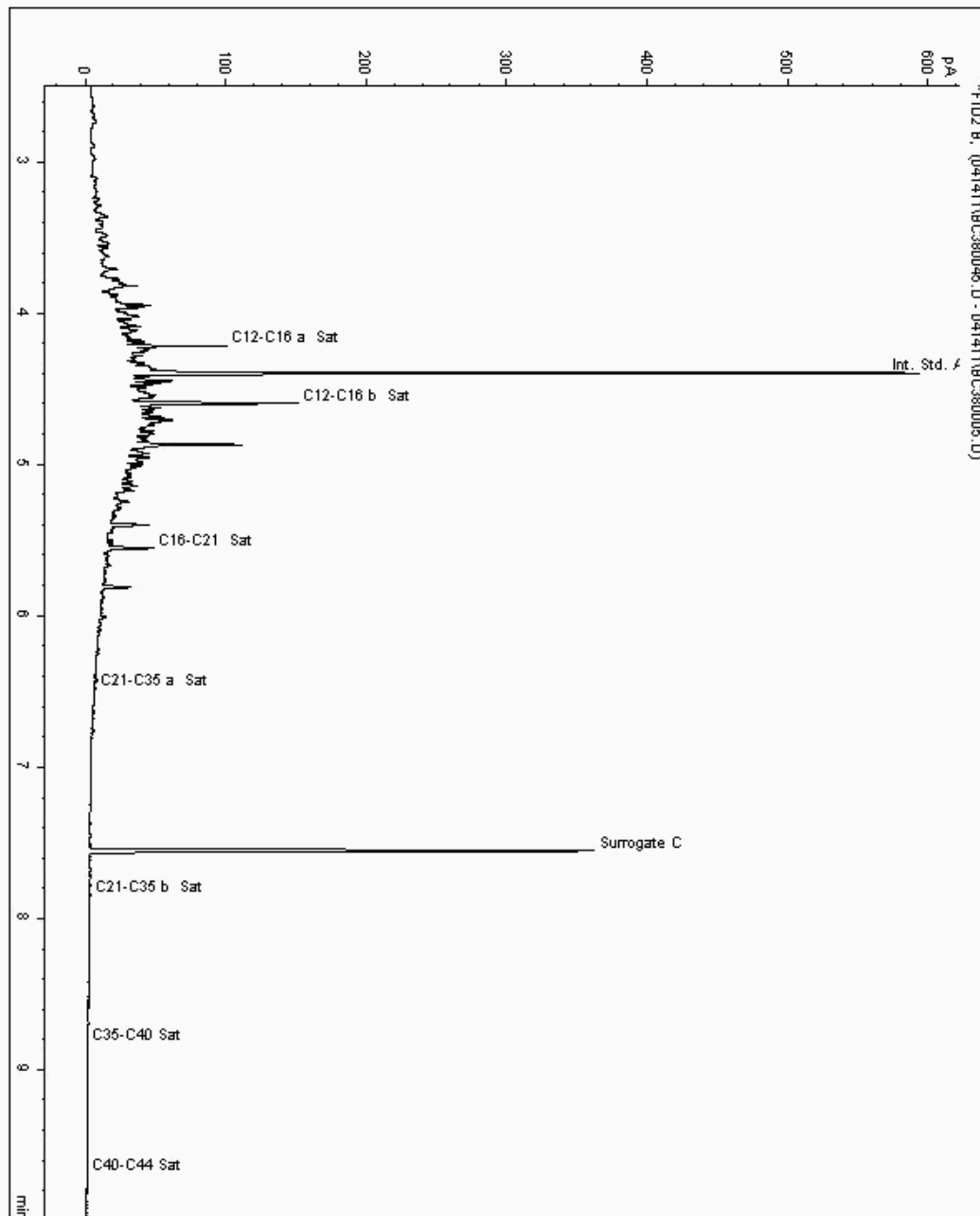
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292611
Sample ID : P1AF008

Depth :

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

Sample Identity: 3329940-3292611
Date Acquired : 15/04/11 08:21:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

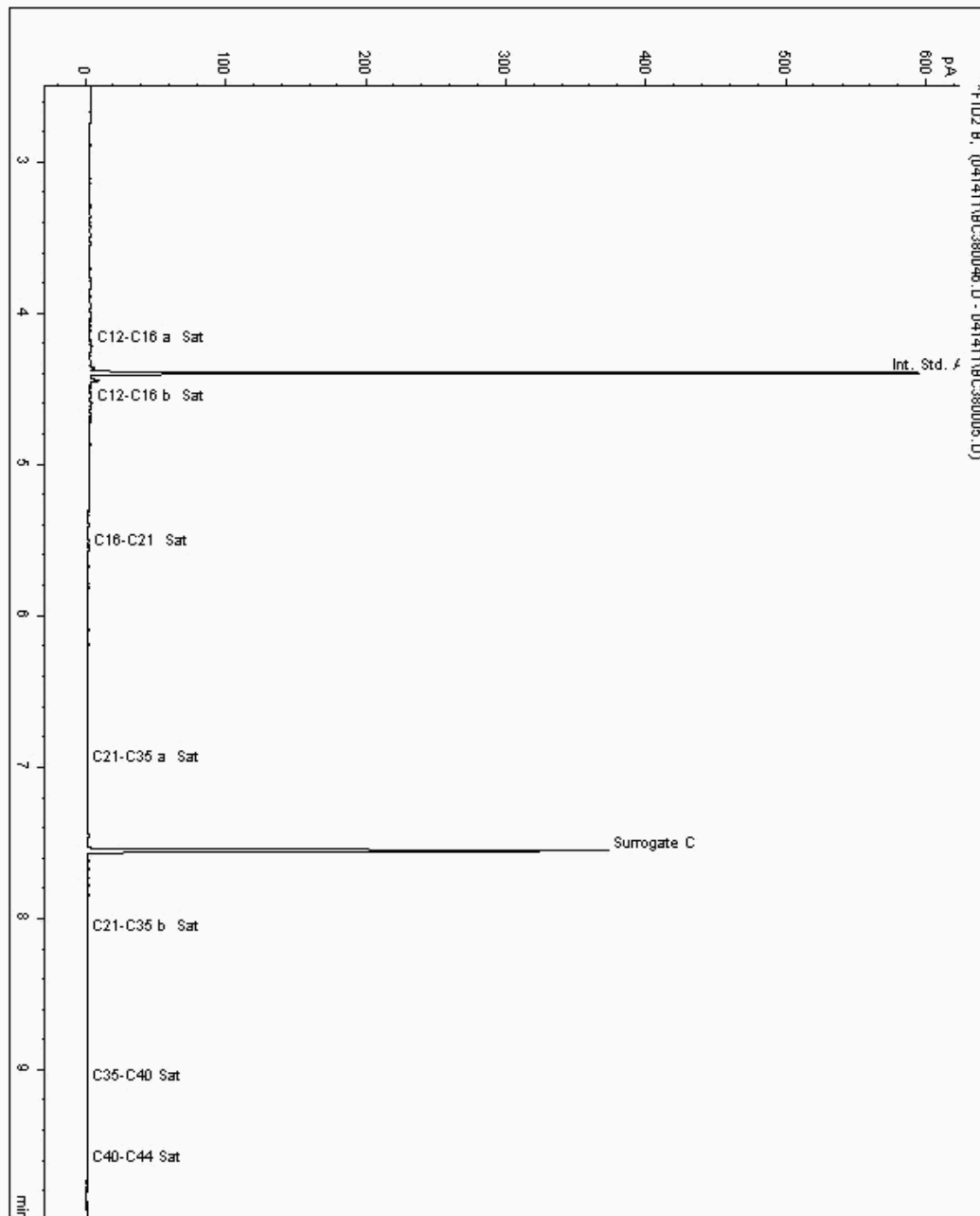
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292655
Sample ID : MSMW143

Depth :

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

Sample Identity: 3329993-3292655
Date Acquired : 15/04/11 08:39:39 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

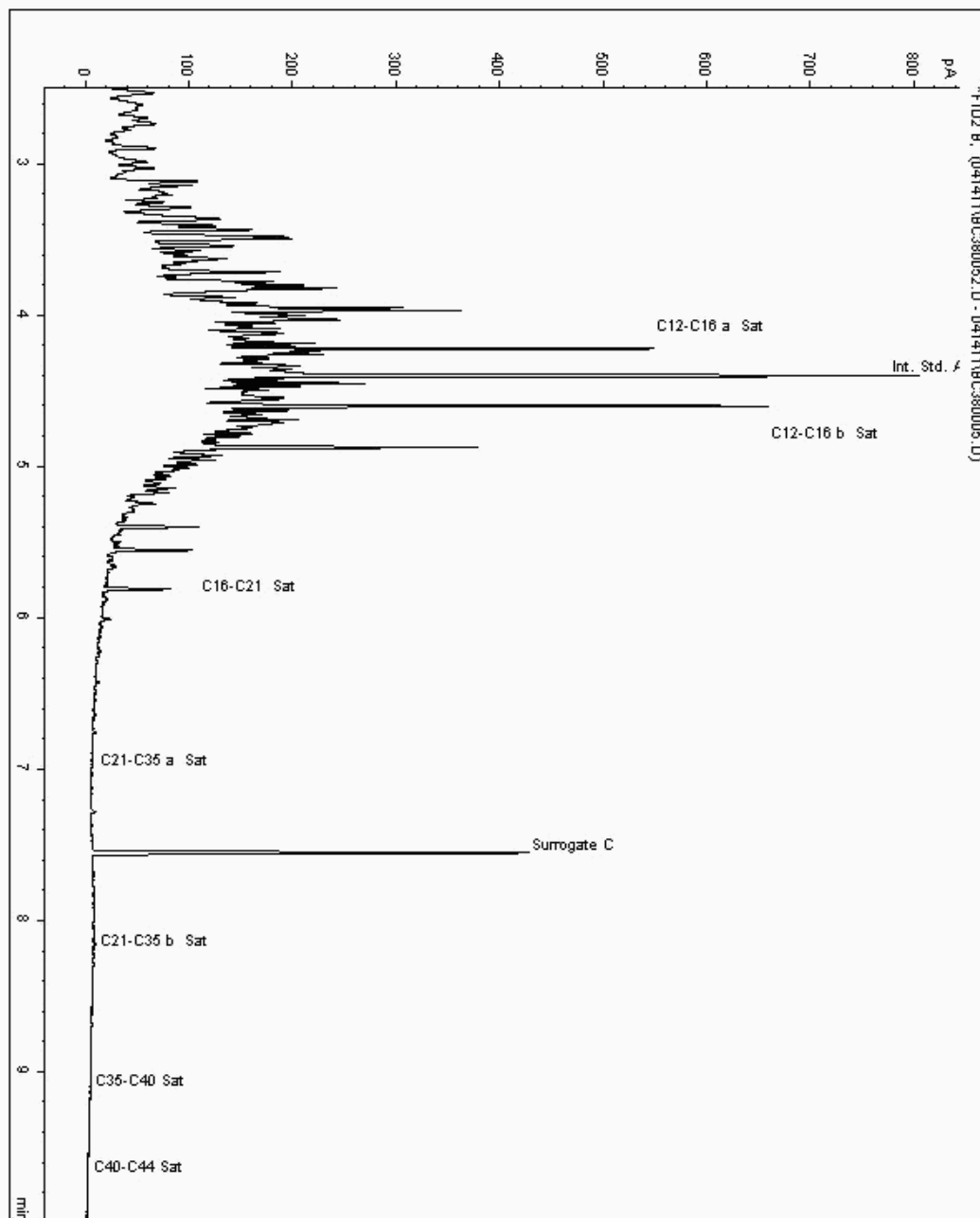
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292698
Sample ID : MSMW059

Depth :

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

Sample Identity: 3330022-3292698
Date Acquired : 15/04/11 11:14:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.167





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

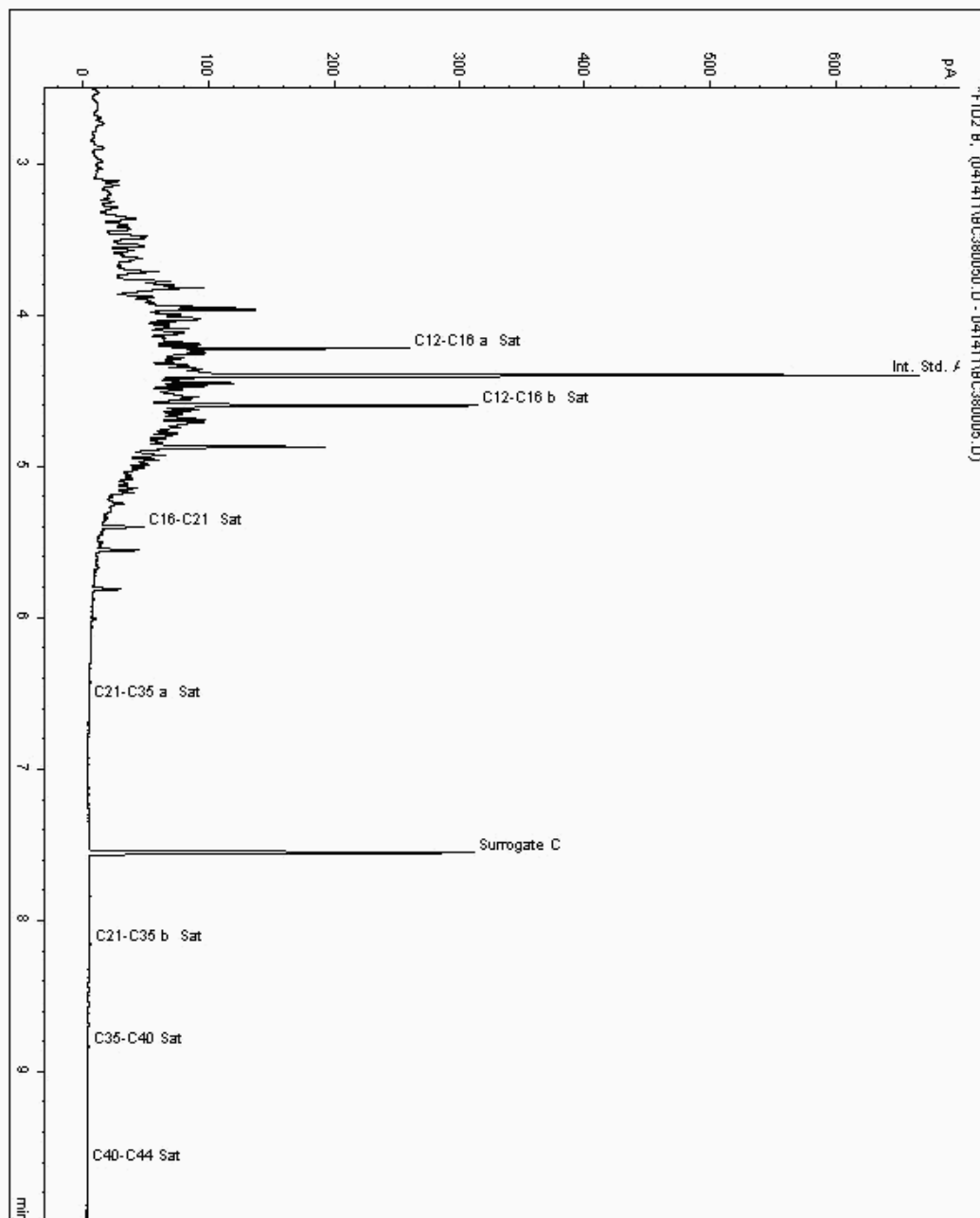
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292737
Sample ID : MSMW077

Depth :

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

Sample Identity: 3330008-3292737
Date Acquired : 15/04/11 09:41:31 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

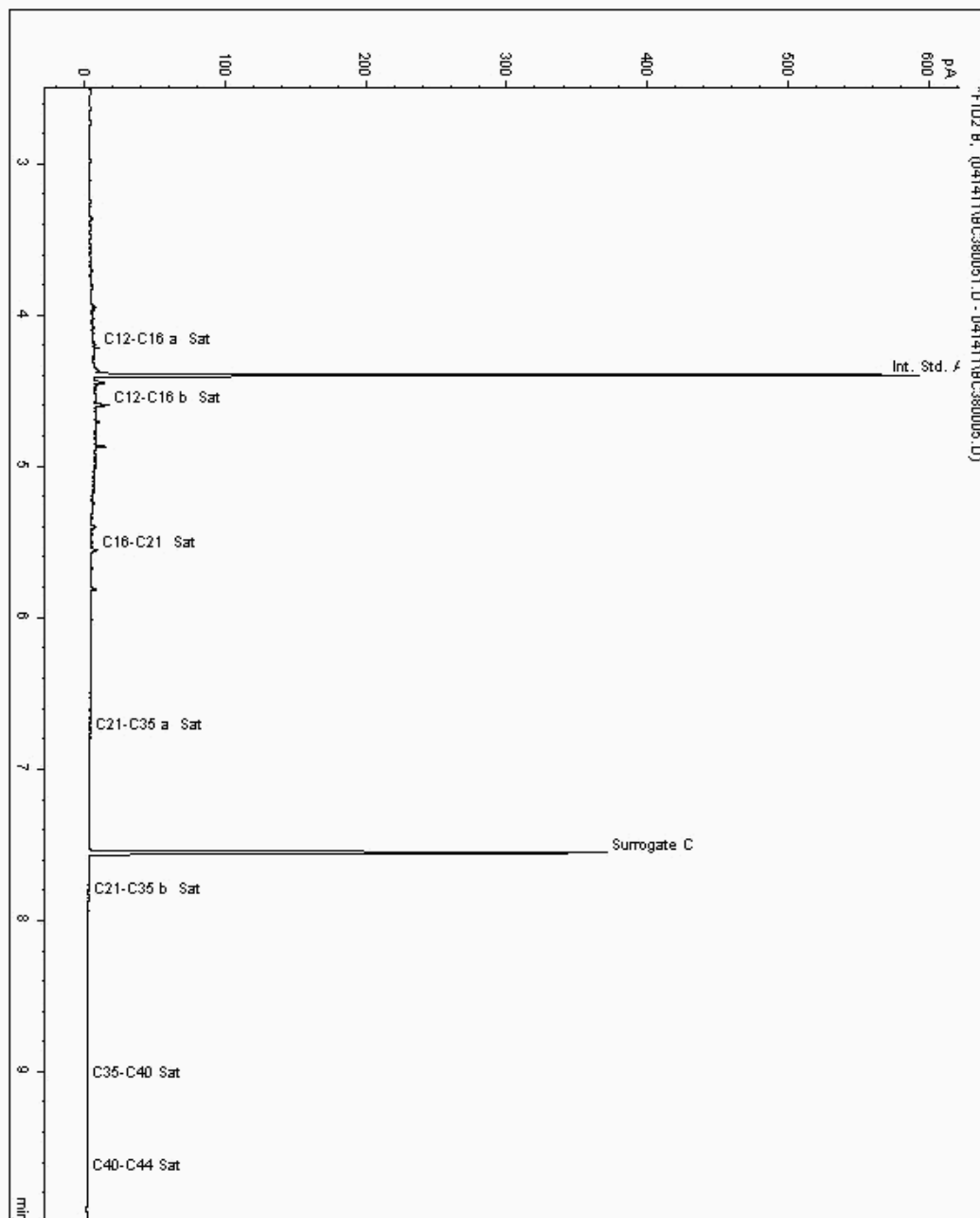
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3292801
Sample ID : P1AF011

Depth :

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

Sample Identity: 3329980-3292801
Date Acquired : 15/04/11 09:59:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

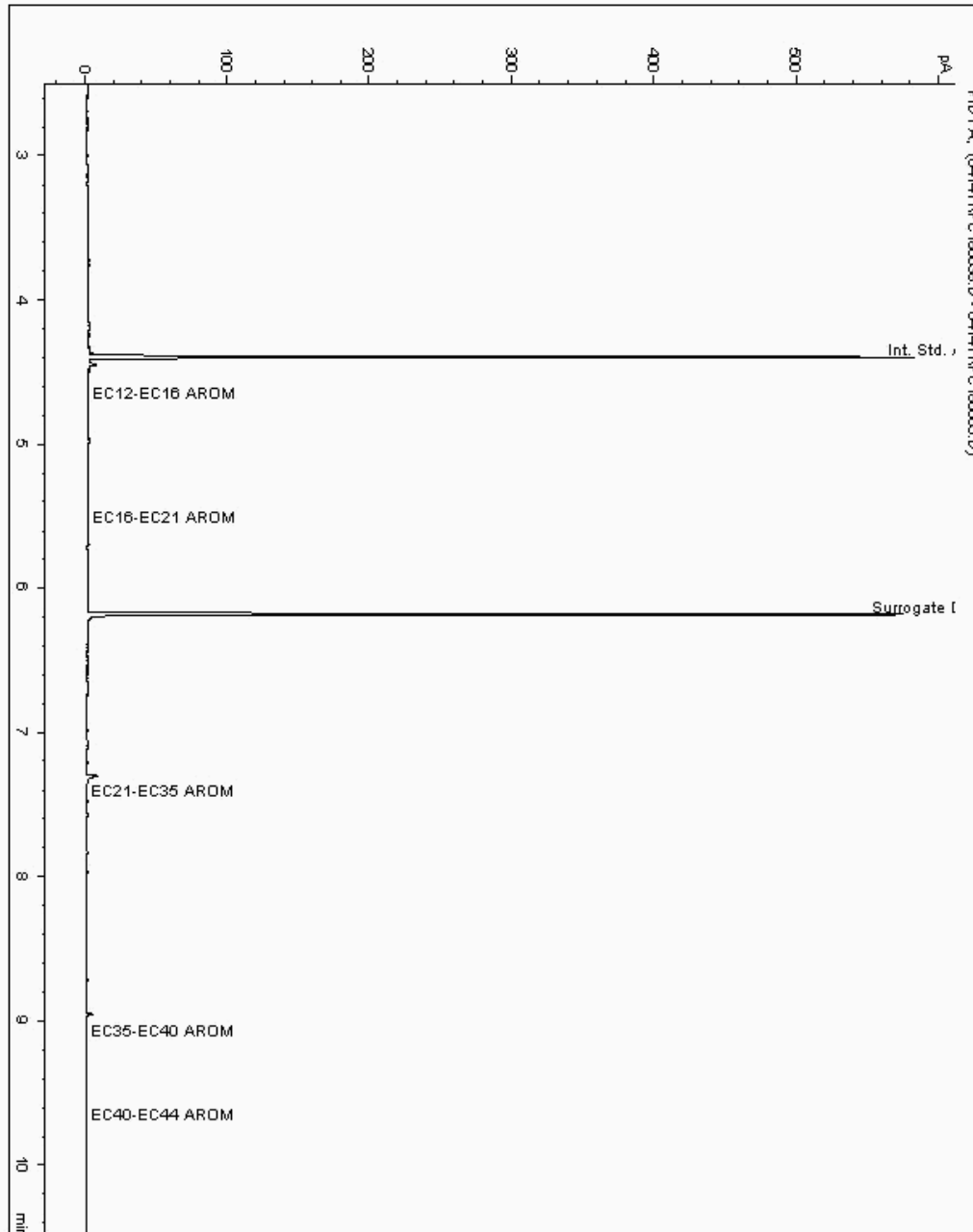
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292430
Sample ID : P1BH027

Depth :

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

Sample Identity: 3329931-3292430
Date Acquired : 15/04/11 08:07:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

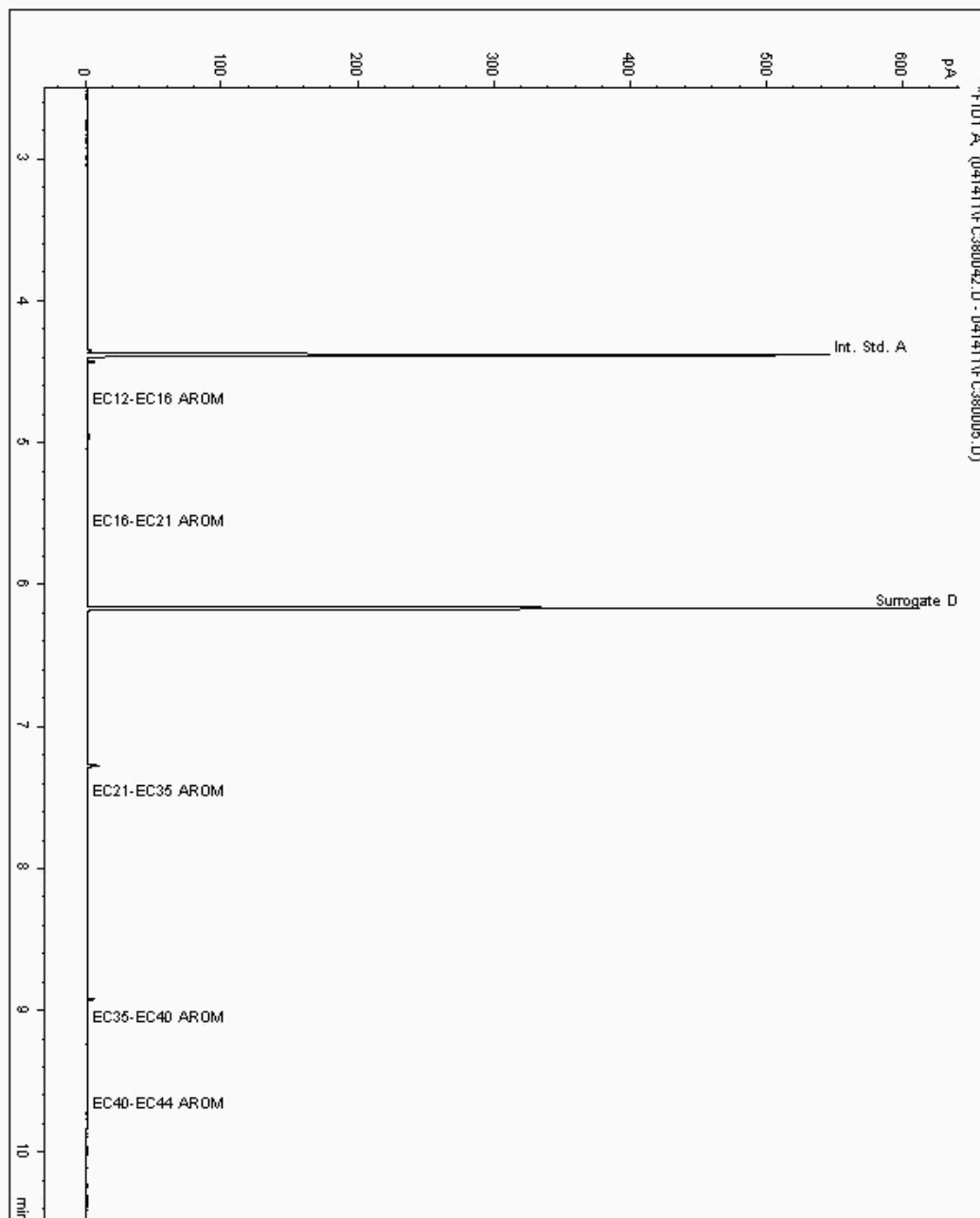
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292495
Sample ID : MSMW147

Depth :

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

Sample Identity: 3329961-3292495
Date Acquired : 15/04/11 07:27:30 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

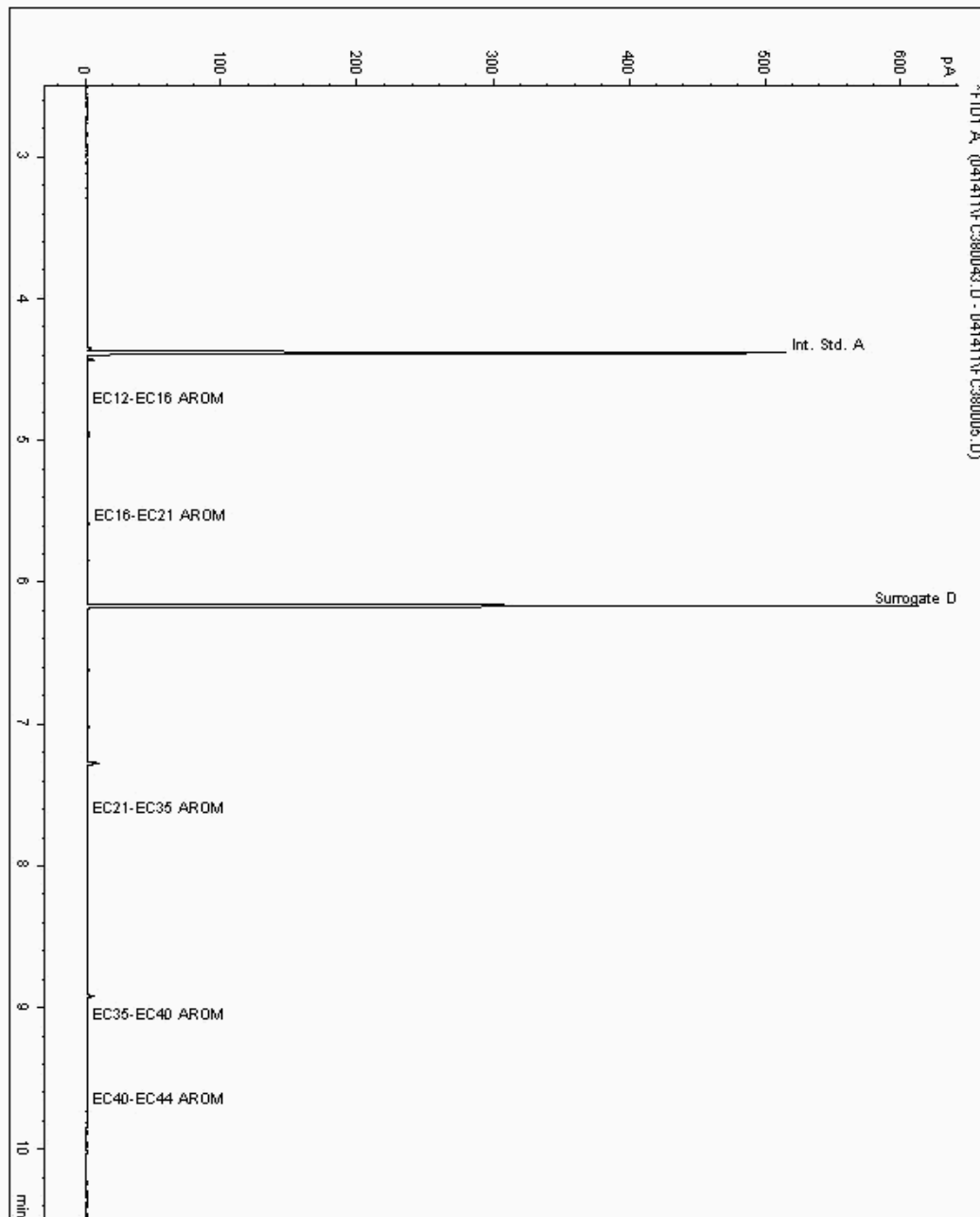
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292560
Sample ID : P1AF013

Depth :

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

Sample Identity: 3329951-3292560
Date Acquired : 15/04/11 07:45:43 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

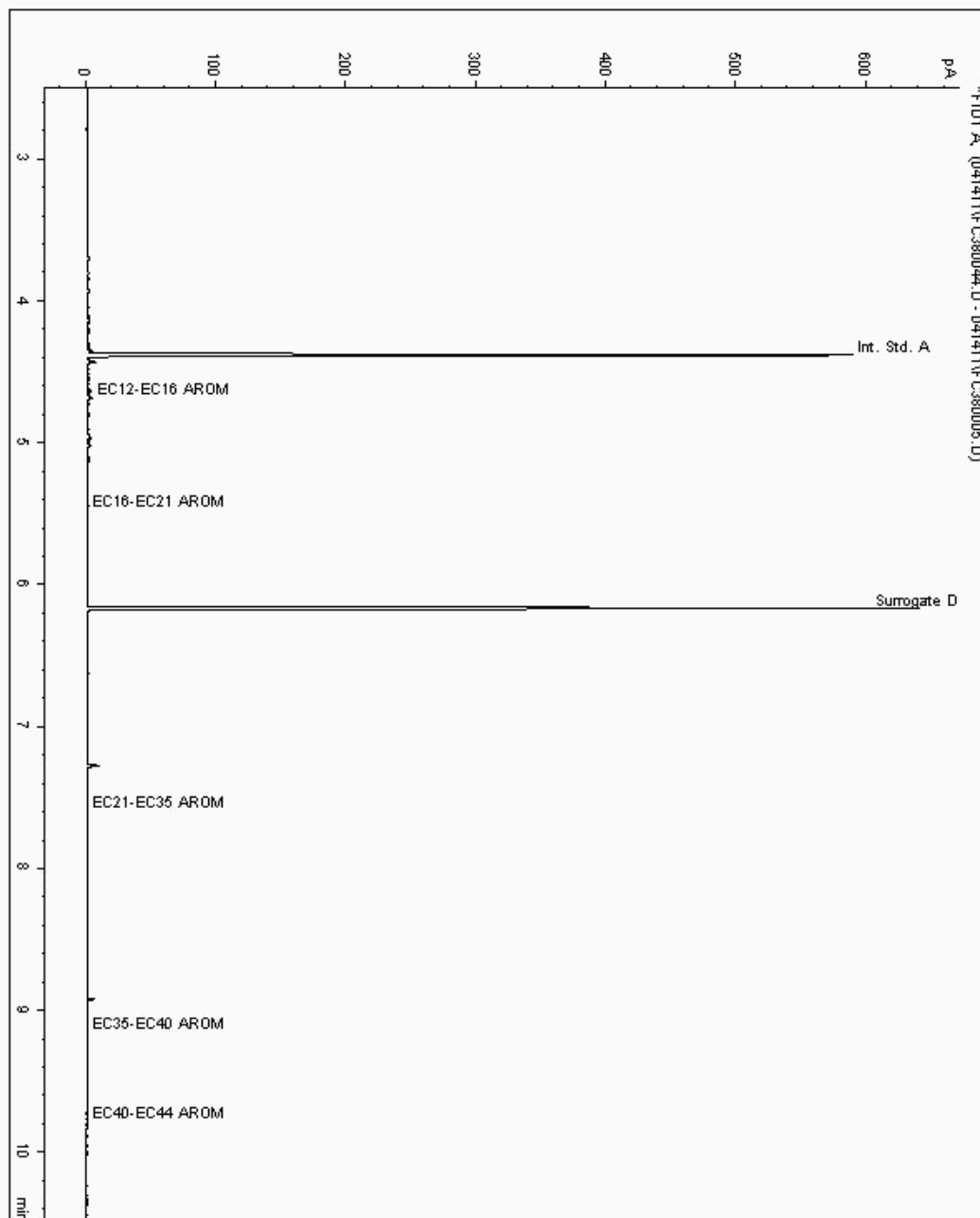
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292586
Sample ID : MSMW145

Depth :

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

Sample Identity: 3329971-3292586
Date Acquired : 15/04/11 08:03:42 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

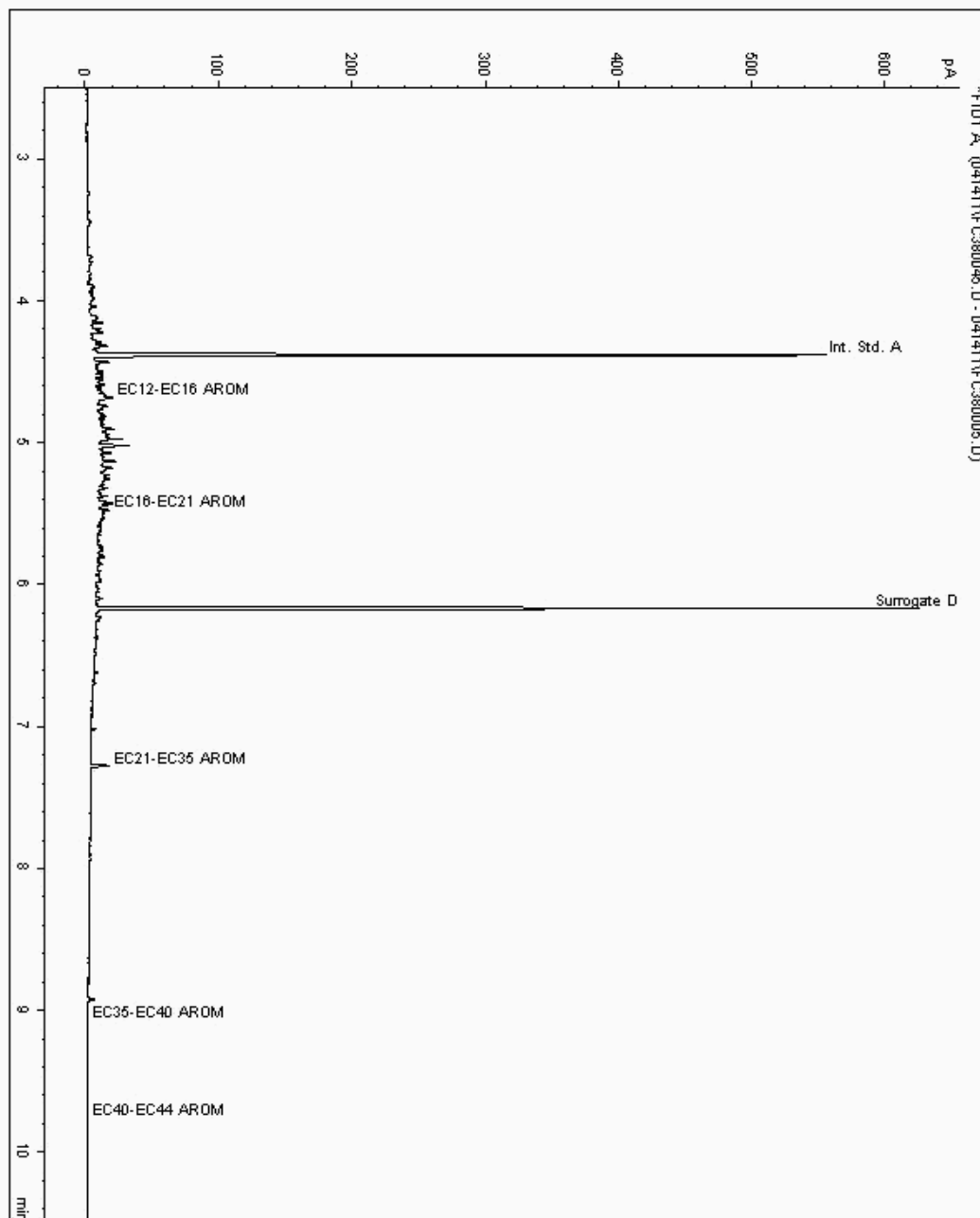
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292611
Sample ID : P1AF008

Depth :

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

Sample Identity: 3329941-3292611
Date Acquired : 15/04/11 08:21:38 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

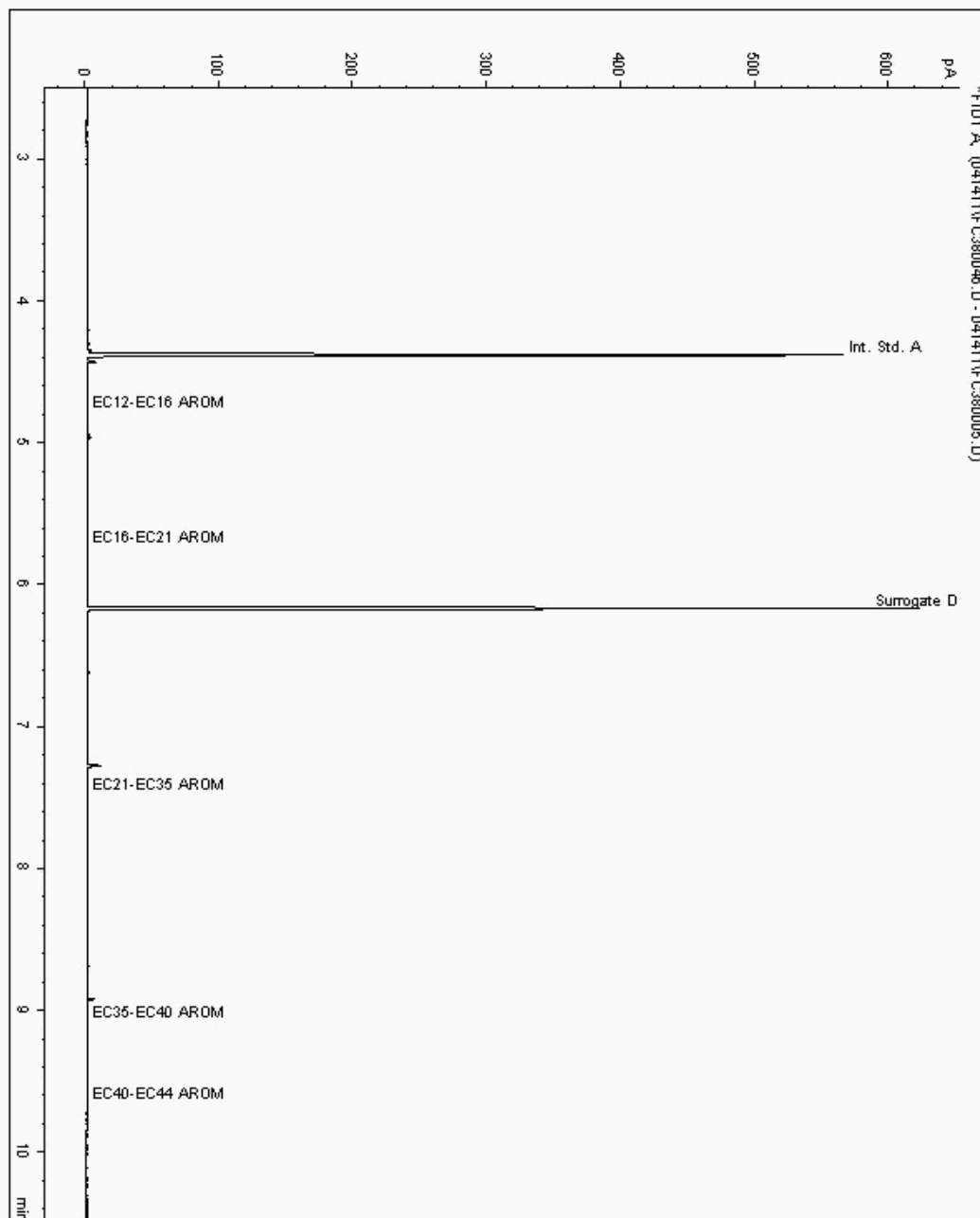
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292655
Sample ID : MSMW143

Depth :

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

Sample Identity: 3329994-3292655
Date Acquired : 15/04/11 08:39:39 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

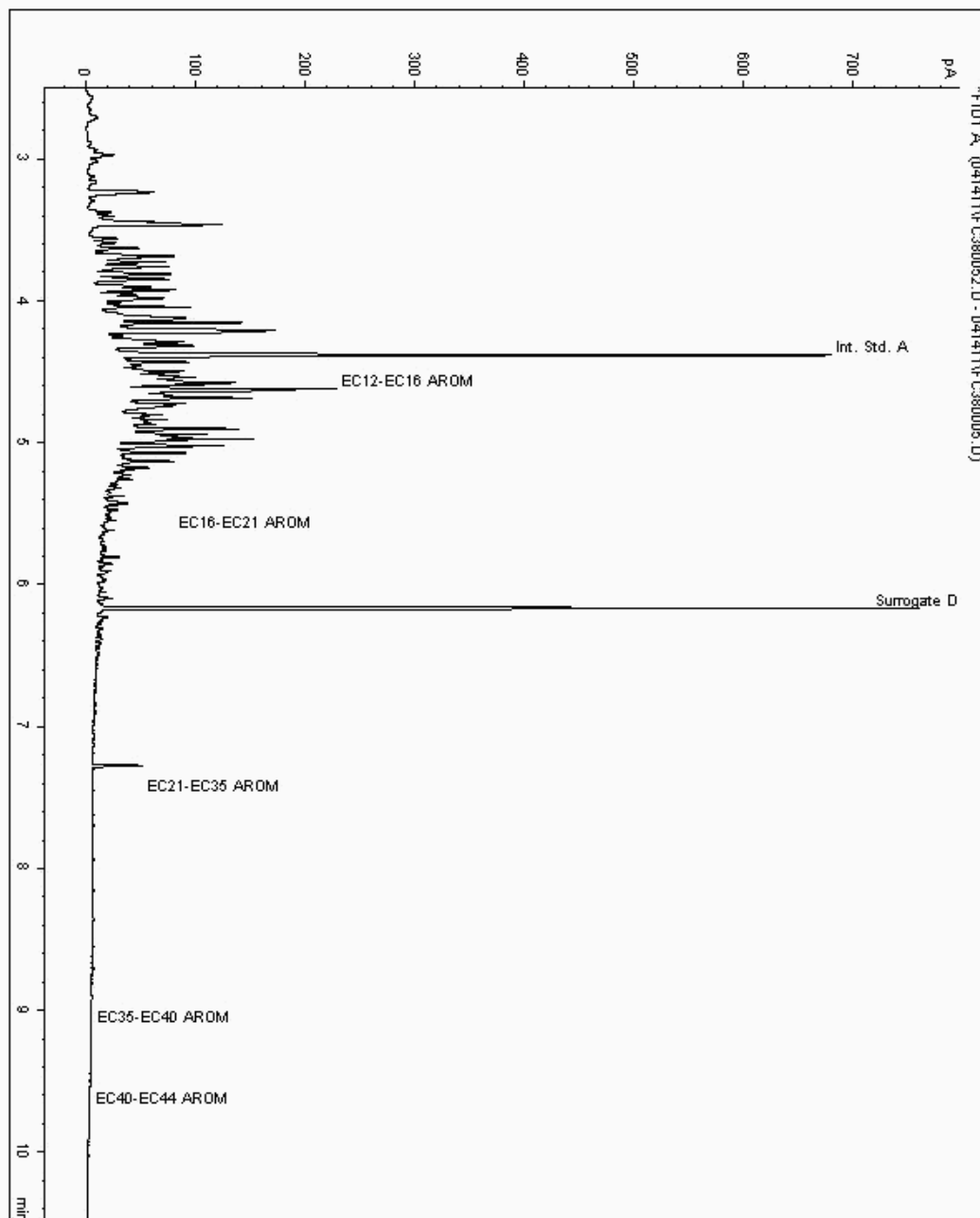
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292698
Sample ID : MSMW059

Depth :

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

Sample Identity: 3330023-3292698
Date Acquired : 15/04/11 11:14:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.083





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

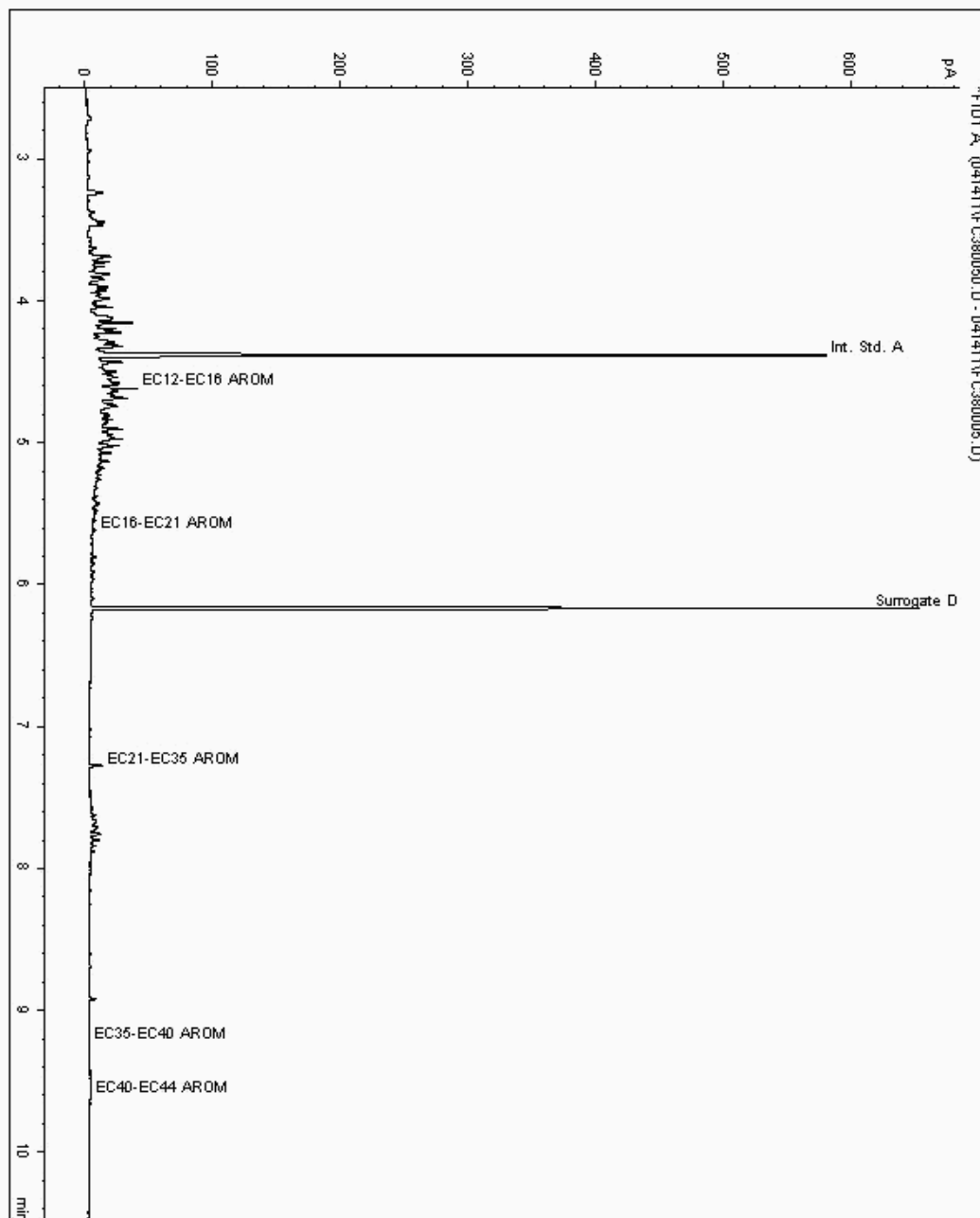
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292737
Sample ID : MSMW077

Depth :

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

Sample Identity: 3330009-3292737
Date Acquired : 15/04/11 09:41:31 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

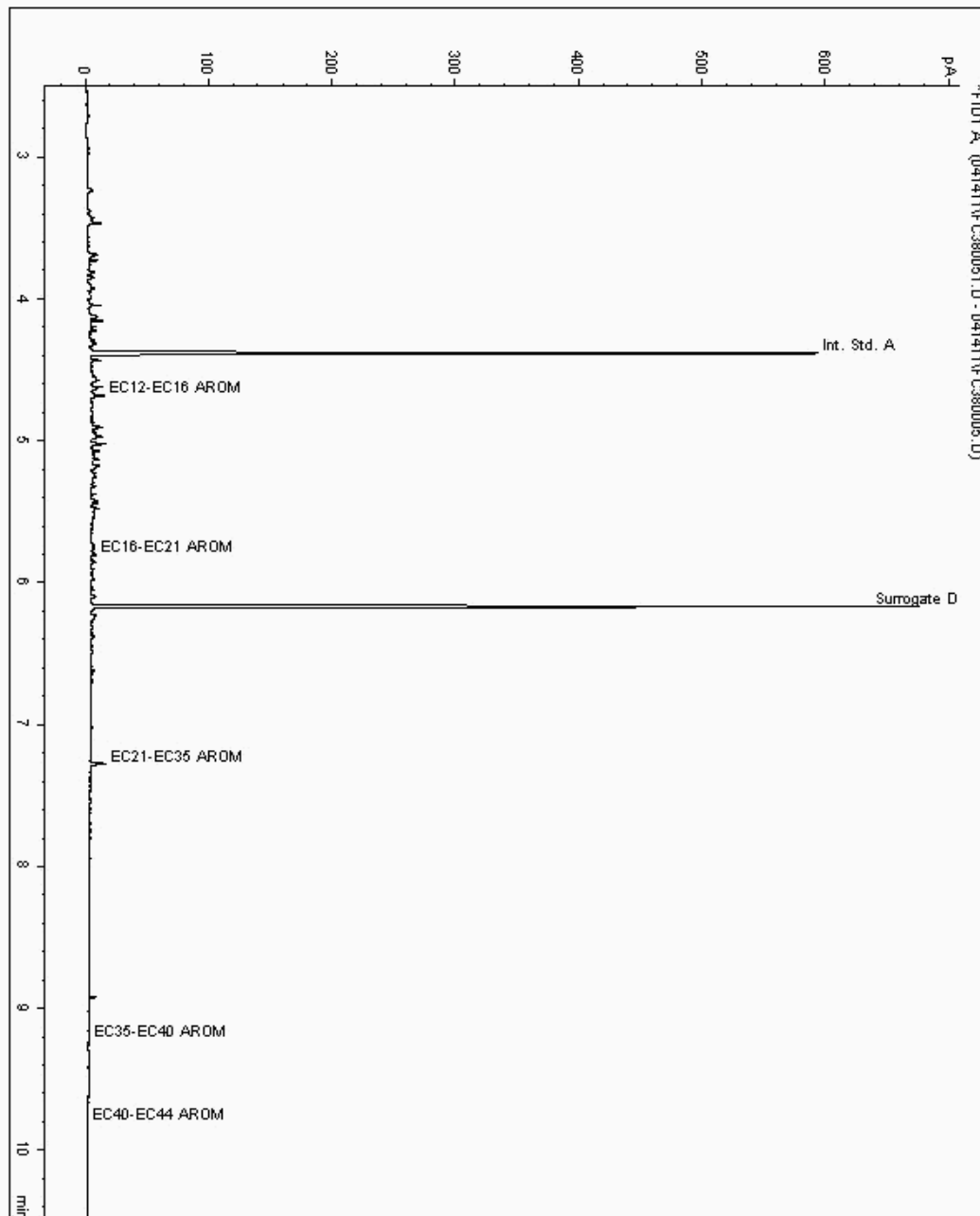
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3292801
Sample ID : P1AF011

Depth :

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

Sample Identity: 3329981-3292801
Date Acquired : 15/04/11 09:59:47 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

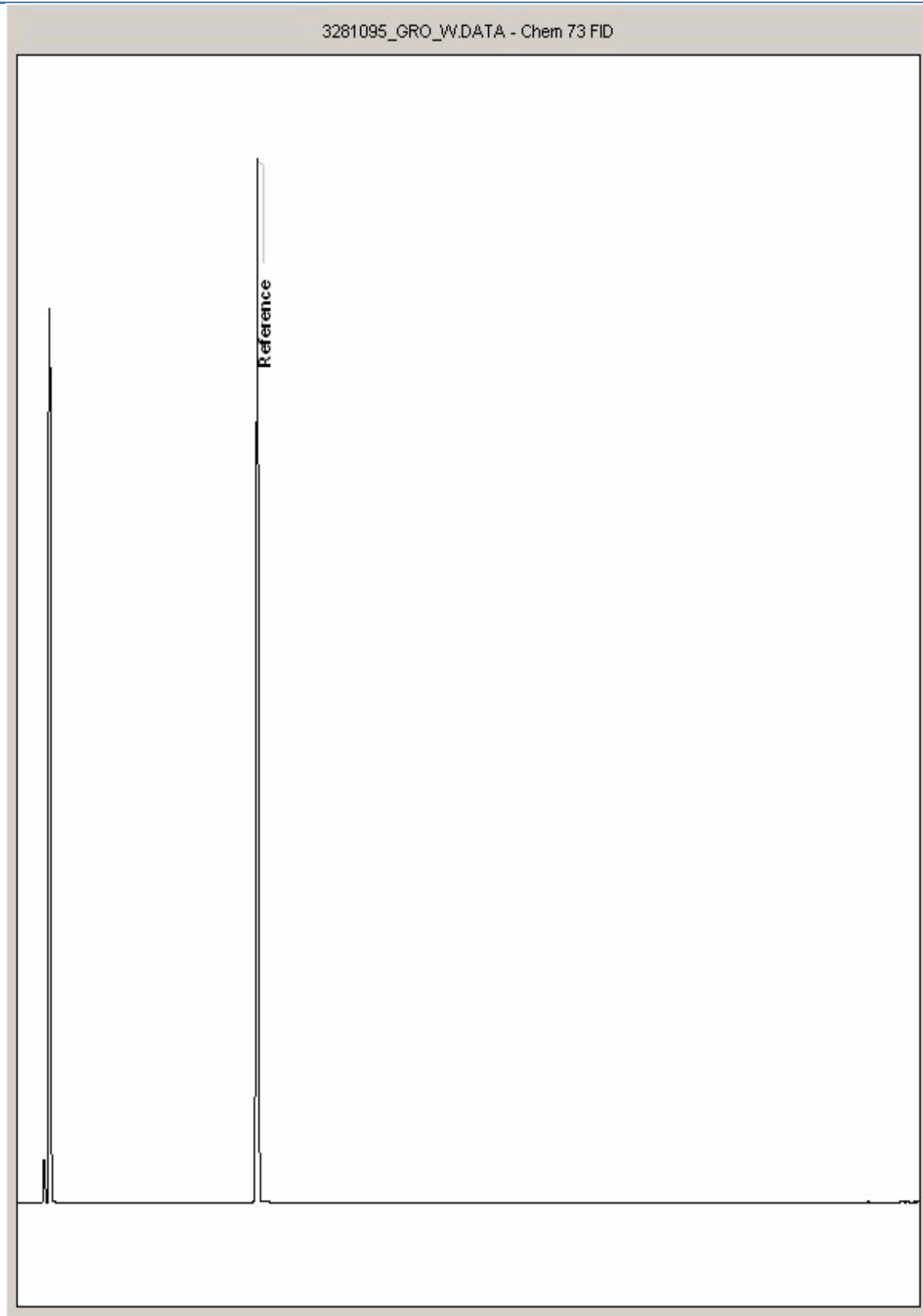
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281095
Sample ID : P1BH027

Depth :





CERTIFICATE OF ANALYSIS

SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

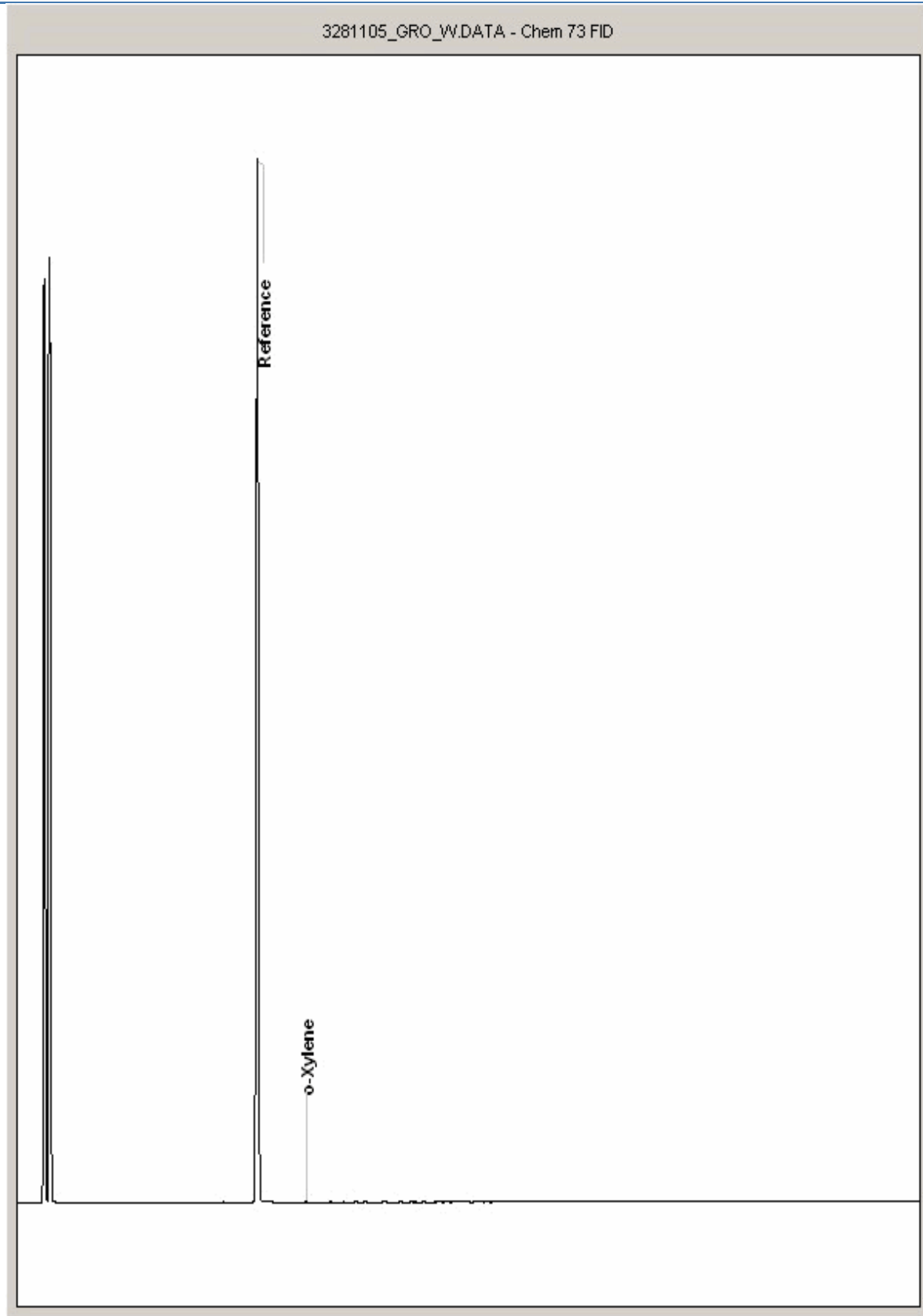
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281105
Sample ID : P1AF008

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

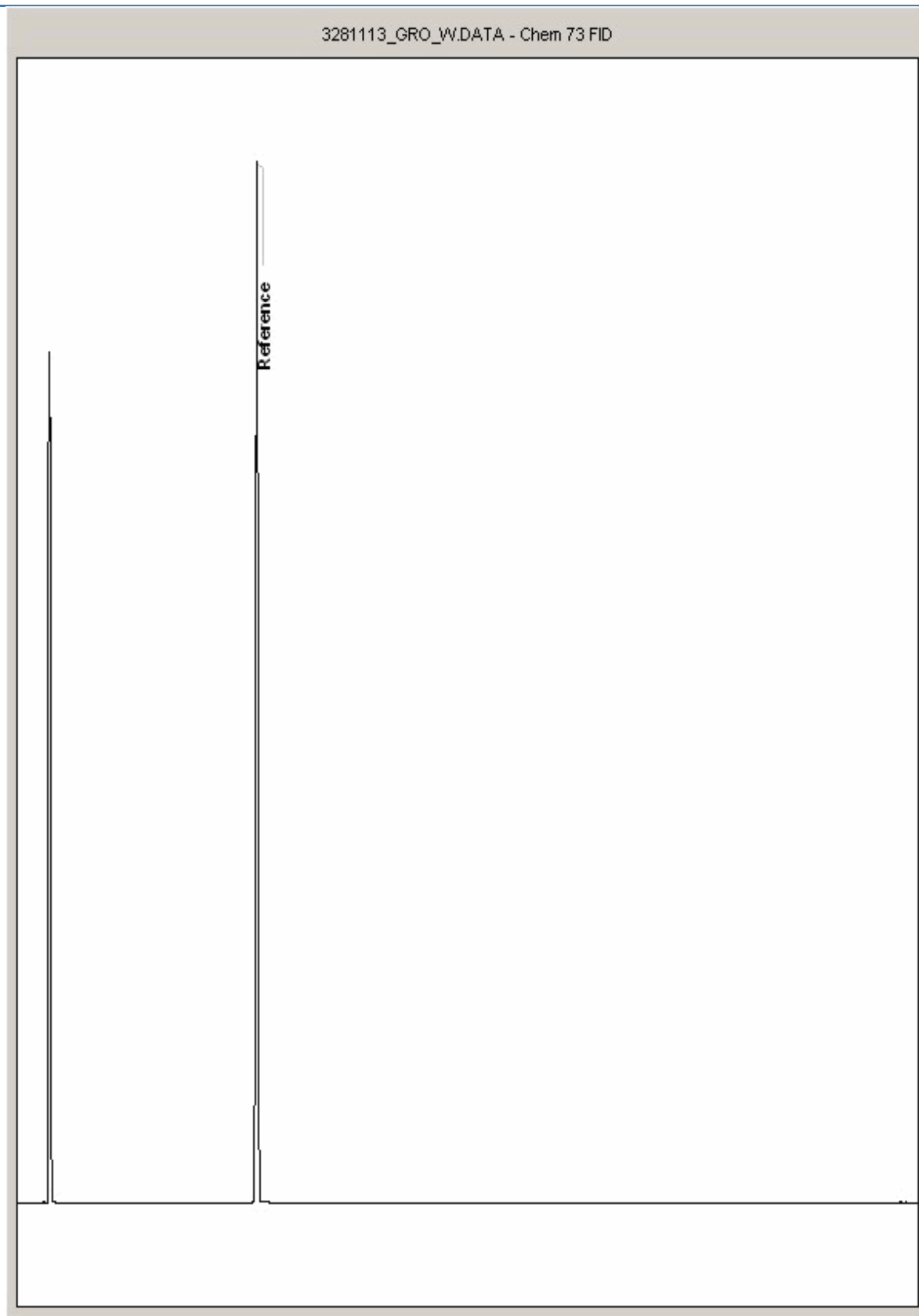
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281113
Sample ID : P1AF013

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

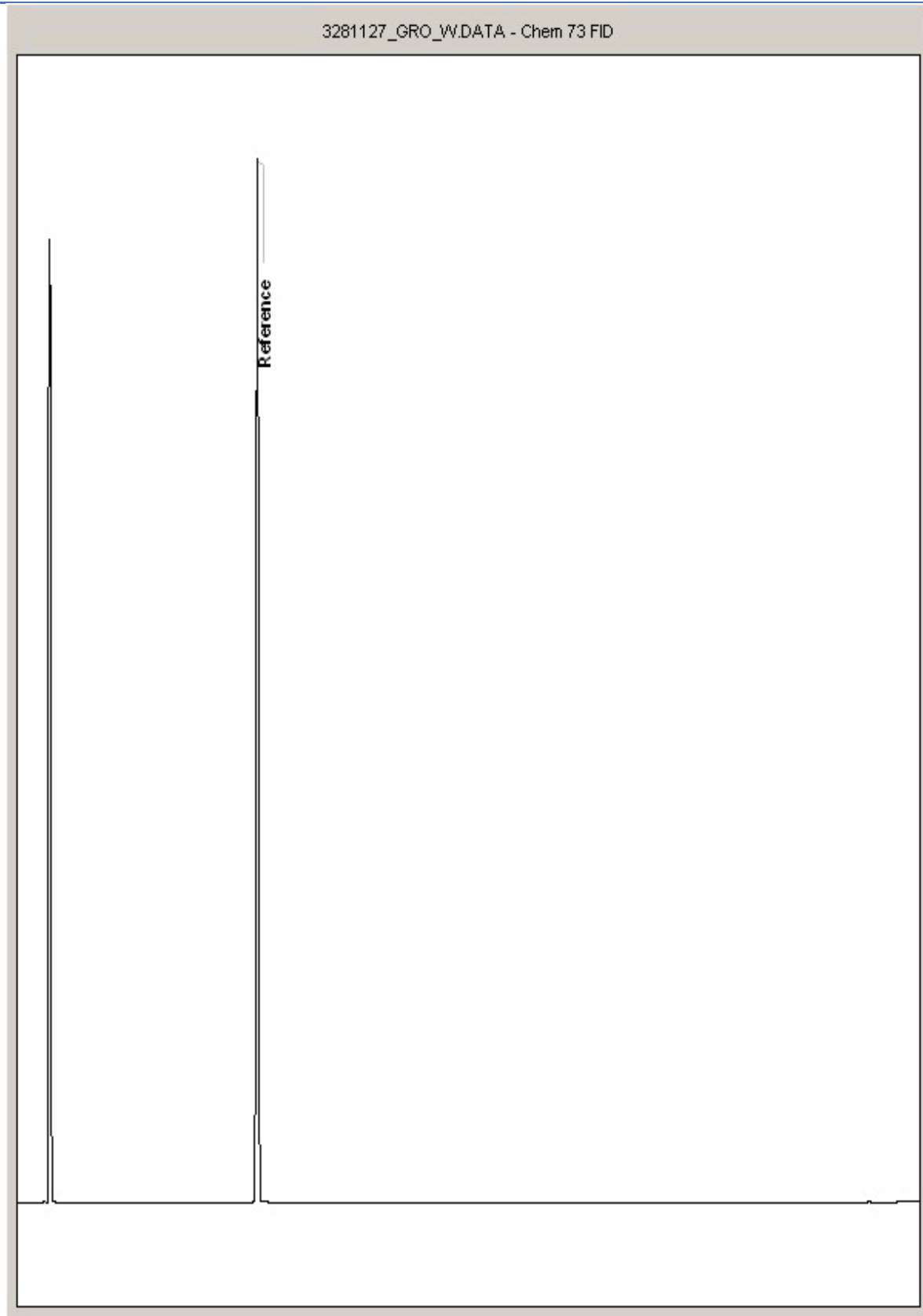
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281127
Sample ID : MSMW147

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

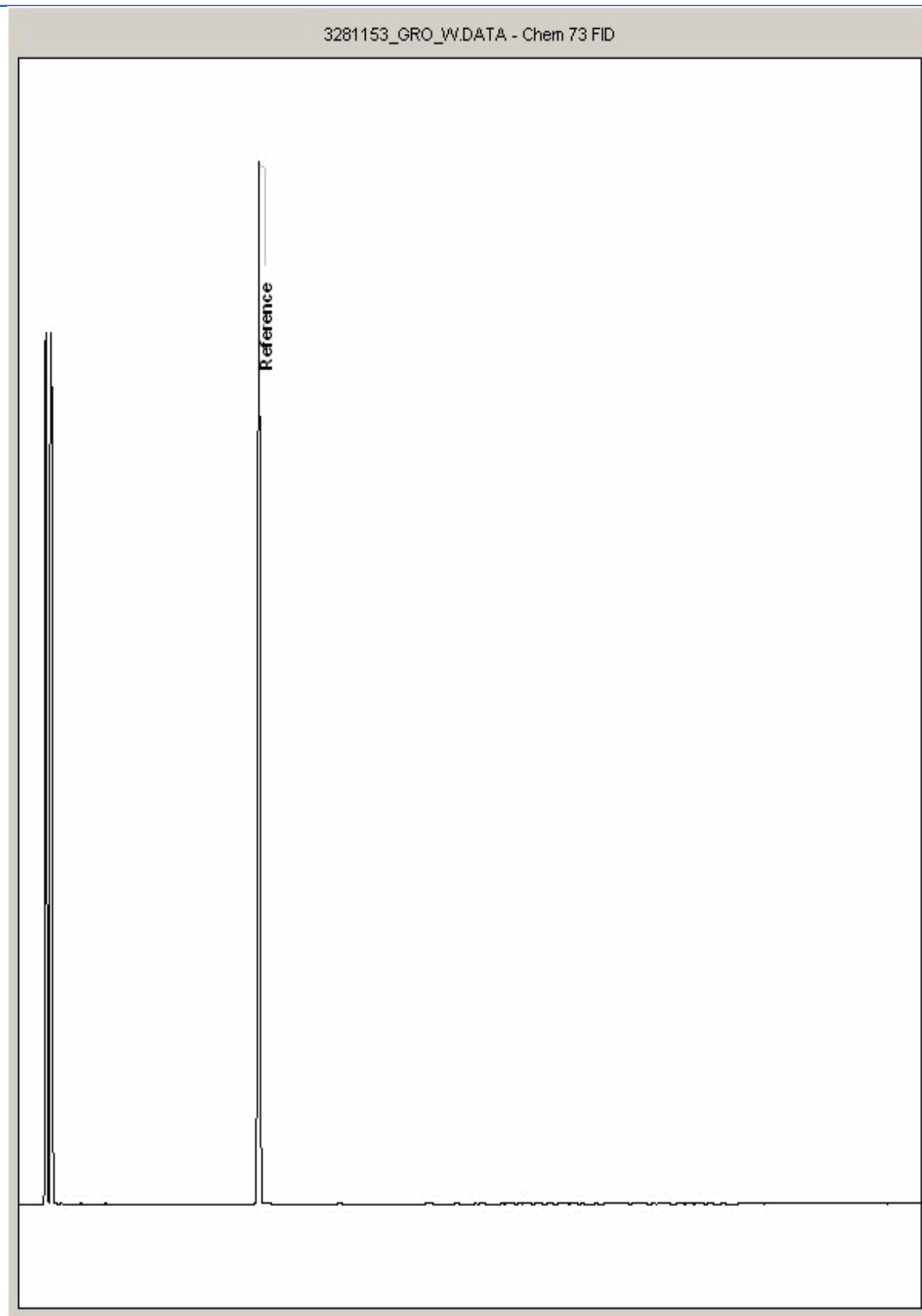
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281153
Sample ID : MSMW145

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

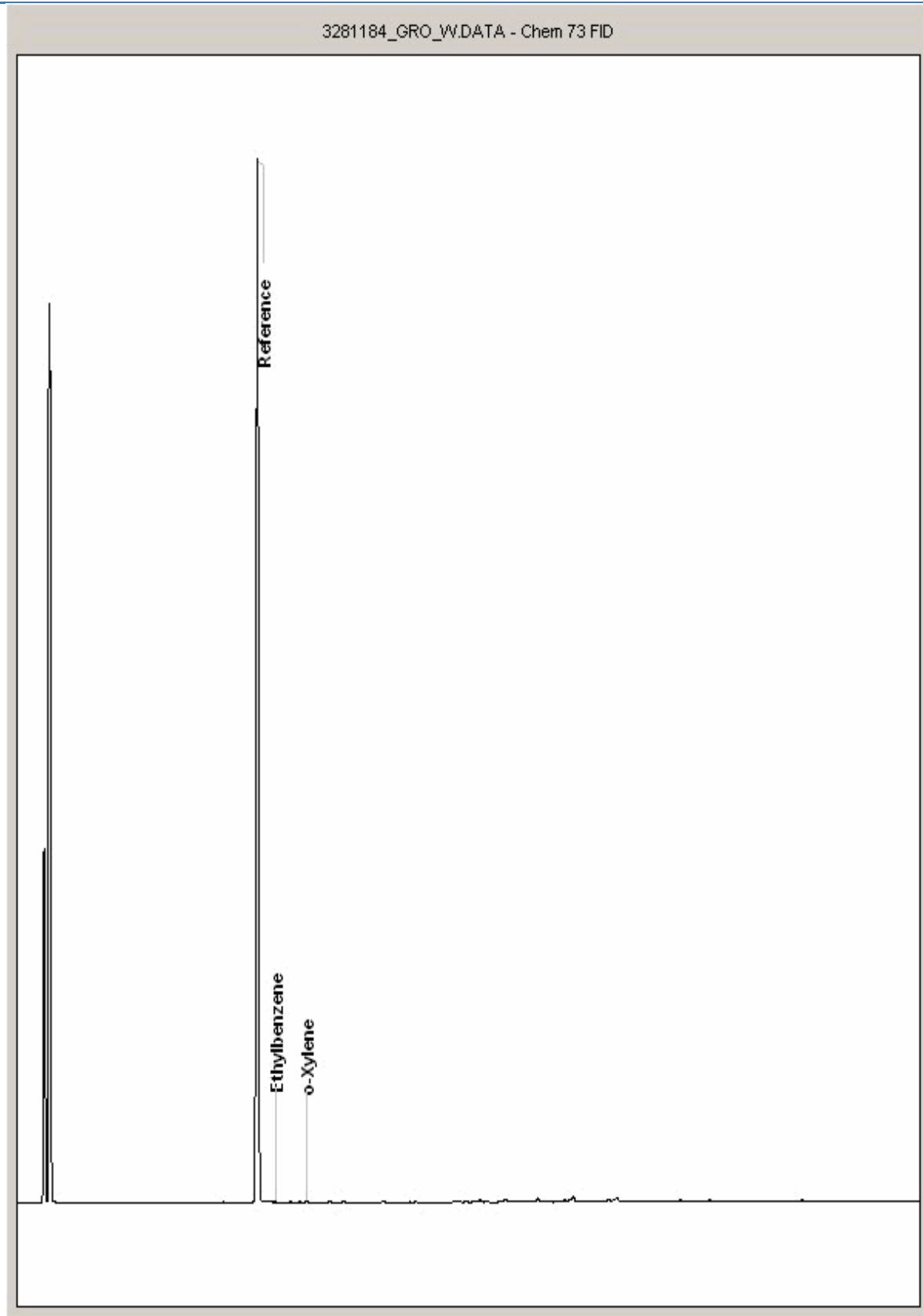
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281184
Sample ID : P1AF011

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

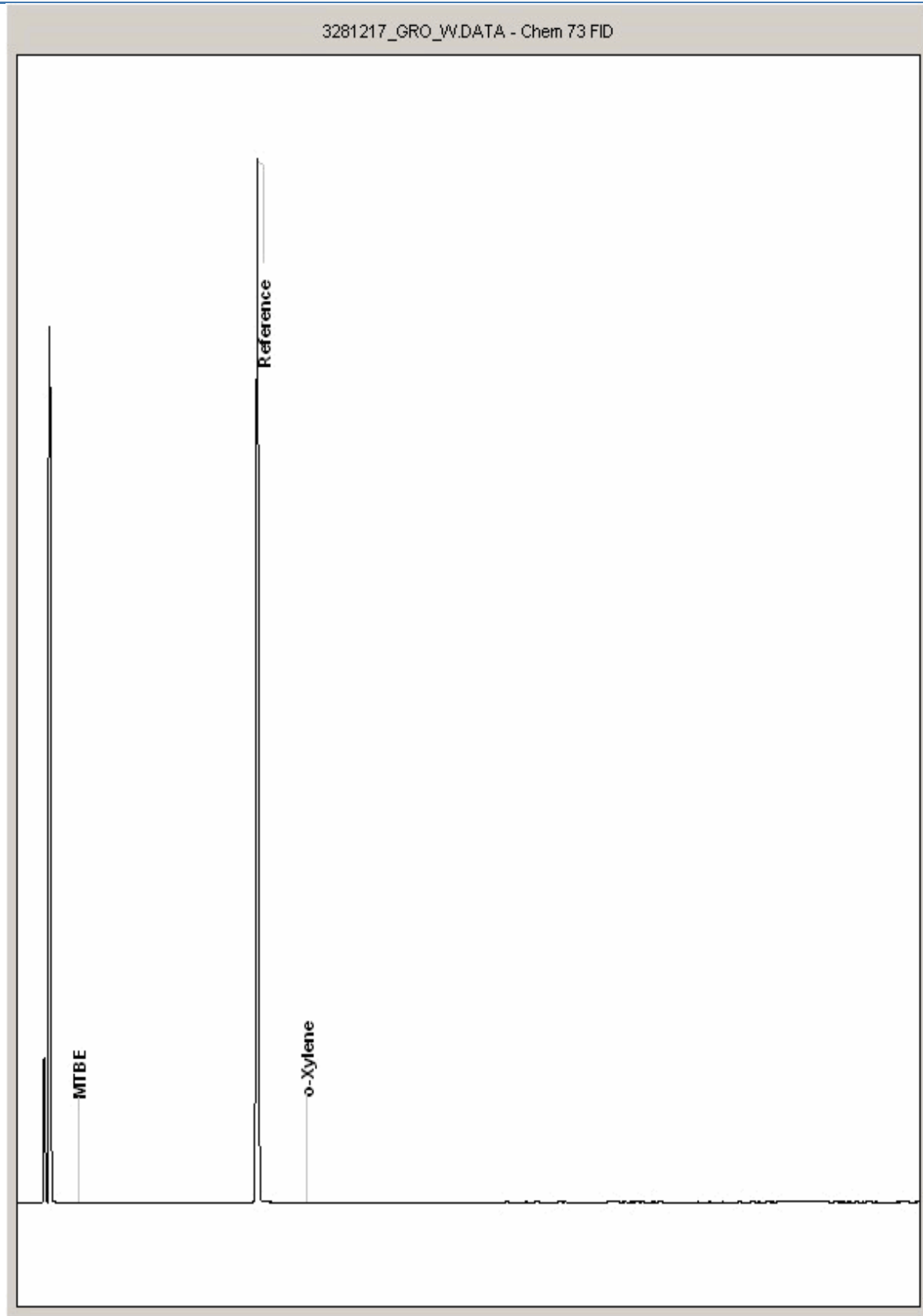
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281217
Sample ID : MSMW143

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

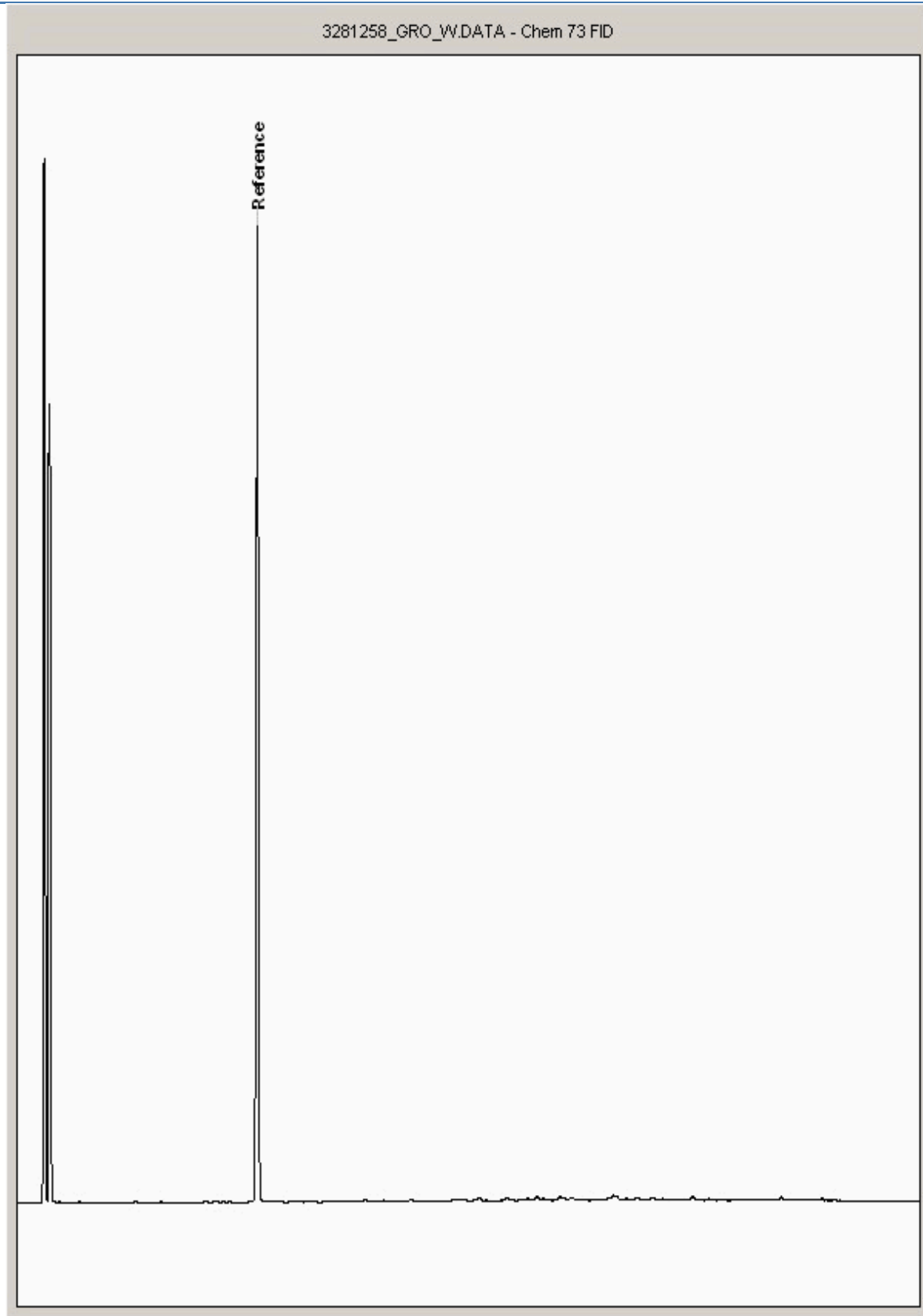
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281258
Sample ID : MSMW077

Depth :





SDG: 110413-11
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

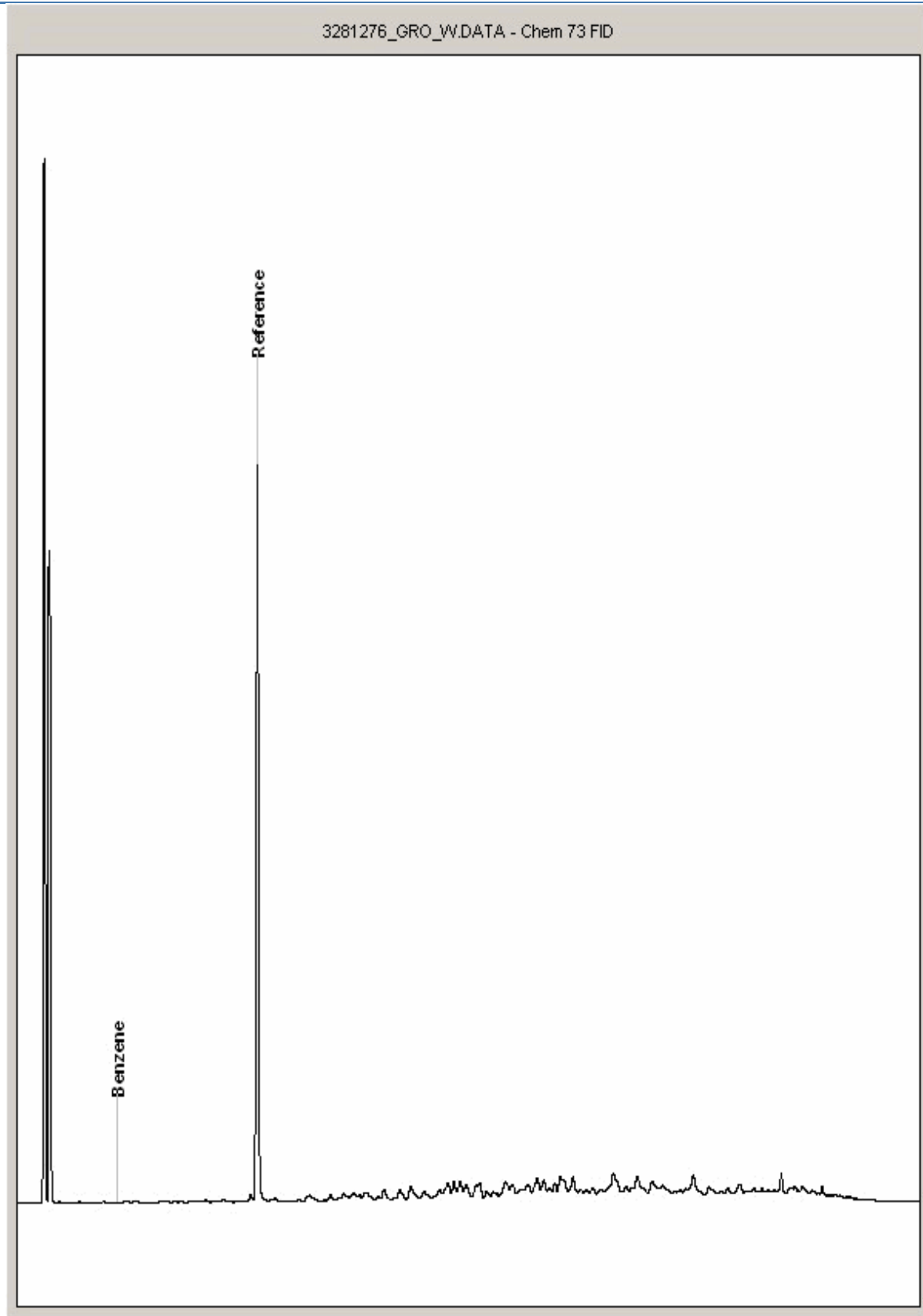
Order Number: CD0111
Report Number: 126020
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3281276
Sample ID : MSMW059

Depth :





CERTIFICATE OF ANALYSIS

SDG:	110413-11	Location:	Coed Darcy Urban Village	Order Number:	CD0111
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126020
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	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 only is 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 VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLSBY GCMS	VET	DOM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (MINOIL)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH OAG BY GC	D&C	HEXANEACETONE	END OVEREND	GC FID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40(C8-C40) EZ FLASH	VET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE/ORGANIC COMPOUNDS	VET	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)	GC FID
EPH OAG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLSMS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (R)	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 HSG 264.

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

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



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date:	22 April 2011
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	110415-23
Your Reference:	First 300 Water Samples 2011
Location:	Coed Darcy Urban Village
Report No:	126458

We received 13 samples on Friday April 15, 2011 and 13 of these samples were scheduled for analysis which was completed on Friday April 22, 2011. 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.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager





SDG:	110415-23	Location:	Coed Darcy Urban Village	Order Number:	CD0113
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126458
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3302114	MSMW149	EW1		14/04/2011
3301989	P1AF014	EW1		13/04/2011
3301992	P1AF017	EW1		14/04/2011
3301873	TA1/1	EW1		14/04/2011
3301858	TA1/2	EW1		14/04/2011
3301999	UNK2	EW1		13/04/2011
3302090	WSMW031	EW1		14/04/2011
3301849	WSMW034	EW1		14/04/2011
3302078	WSMW052	EW1		14/04/2011
3302095	WSMW053	EW1		14/04/2011
3301865	WSMW056	EW1		14/04/2011
3301883	WSMW058	EW1		14/04/2011
3301996	WSTP121	EW1		13/04/2011

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



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

LIQUID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3301992		P1AF017		EW1				Vial	
	3301989		P1AF014		EW1				1l green glass bottle	
	3302114		MSMW149		EW1				Vial	
	3301996		WSTP121		EW1				1l green glass bottle	
	3301883		WSMW058		EW1				1l plastic	
	3301865		WSMW056		EW1				Vial	
	3302095		WSMW053		EW1				1l green glass bottle	
	3302078		WSMW052		EW1				1l plastic	
	3301849		WSMW034		EW1				Vial	
	3302090		WSMW031		EW1				1l green glass bottle	
	3301858		TA1/2		EW1				1l plastic	
	3301873		TA1/1		EW1				Vial	
	3301999		UNK2		EW1				1l green glass bottle	
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 13								
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 13								
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 13								
GRO by GC-FID (W)	All	NDPs: 0 Tests: 13								
Mercury Dissolved	All	NDPs: 0 Tests: 13								
pH Value	All	NDPs: 0 Tests: 13								
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 13								
TPH CWG (W)	All	NDPs: 0 Tests: 13								
VOC MS (W)	All	NDPs: 0 Tests: 13								

Order Number: CD0113
Report Number: 126458
Superseded Report:

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Order Number: CD0113
Report Number: 126458
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Order Number: CD0113
Report Number: 126458
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R	MSMW149	P1AF014	P1AF017	TA1/1	TA1/2	UNK2
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Customer Sample R			Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3302114	EW1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301989	EW1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301992	EW1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301873	EW1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301858	EW1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
2-Chloronaphthalene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
2-Chlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
2-Methylnaphthalene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
2-Methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
2-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
2-Nitrophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
3-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
4-Chloroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
4-Methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
4-Nitrophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
4-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
Azobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
Acenaphthylene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
Acenaphthene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
Anthracene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
bis(2-Chloroethoxy)methan e (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
Benzo(a)anthracene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301999	EW1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		Water(GW/SW)	13/04/2011	15/04/2011	110415-23	3301999	EW1

Order Number: CD0113
Report Number: 126458
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R	WSMW031	WSMW034	WSMW052	WSMW053	WSMW056	WSMW058
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Customer Sample R			Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
Component	LOD/Units	Method							
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3302090	EW1
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301849	EW1
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3302078	EW1
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3302095	EW1
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301865	EW1
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2,4-Dichlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2,4-Dimethylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Chloronaphthalene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Chlorophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Methylnaphthalene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
2-Nitrophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
3-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Bromophenylphenylether (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Chloroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Methylphenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Nitrophenol (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
4-Nitroaniline (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Azobenzene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Acenaphthylene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Acenaphthene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Anthracene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
bis(2-Chloroethoxy)methan e (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Benzo(a)anthracene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Butylbenzyl phthalate (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		Water(GW/SW)	14/04/2011	15/04/2011	110415-23	3301883	EW1

SVOC MS (W) - Aqueous

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	WSTP121				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 13/04/2011 15/04/2011 110415-23 3301996 EW1				
M	mCERTS accredited.						
S	Non-conforming work.						
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 the individual compounds within the samples are not corrected for this recovery.						
Component	LOD/Units	Method					
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<1				
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<1				
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<1				
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<1				
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<1				
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<1				
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<1				
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<1				
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<1				
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<1				
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<1				
2-Chlorophenol (aq)	<1 µg/l	TM176	<1				
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<1				
2-Methylphenol (aq)	<1 µg/l	TM176	<1				
2-Nitroaniline (aq)	<1 µg/l	TM176	<1				
2-Nitrophenol (aq)	<1 µg/l	TM176	<1				
3-Nitroaniline (aq)	<1 µg/l	TM176	<1				
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<1				
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<1				
4-Chloroaniline (aq)	<1 µg/l	TM176	<1				
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<1				
4-Methylphenol (aq)	<1 µg/l	TM176	<1				
4-Nitrophenol (aq)	<1 µg/l	TM176	<1				
4-Nitroaniline (aq)	<1 µg/l	TM176	<1				
Azobenzene (aq)	<1 µg/l	TM176	<1				
Acenaphthylene (aq)	<1 µg/l	TM176	<1				
Acenaphthene (aq)	<1 µg/l	TM176	<1				
Anthracene (aq)	<1 µg/l	TM176	<1				
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<1				
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<1				
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<2				
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<1				
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<1				
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<1				
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<1				

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Report Number: 126458
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Order Number: CD0113
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Order Number: CD0113
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Order Number: CD0113
Report Number: 126458
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R	MSMW149	P1AF014	P1AF017	TA1/1	TA1/2	UNK2
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
			Depth (m)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Sample Type	14/04/2011	13/04/2011	14/04/2011	14/04/2011	14/04/2011	13/04/2011
			Date Sampled	15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011
			Date Received	110415-23	110415-23	110415-23	110415-23	110415-23	110415-23
			SDG Ref	3302114	3301989	3301992	3301873	3301858	3301999
			Lab Sample No.(s)	EW1	EW1	EW1	EW1	EW1	EW1
			AGS Reference						
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208		102	105	105	107	106	105
Toluene-d8**	%	TM208		100	100	99.6	99.7	99.7	100
4-Bromofluorobenzene**	%	TM208		97.6	97.9	95.3	96.1	97.7	96.4
Dichlorodifluoromethane	<7 µg/l	TM208		<7	<7	<7	<7	<7	<7
Chloromethane	<9 µg/l	TM208		<9	<9	<9	<9	<9	<9
Vinyl chloride	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Bromomethane	<2 µg/l	TM208		<2	<2	<2	<2	<2	<2
Chloroethane	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Trichlorofluoromethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloroethene	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon disulphide	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Dichloromethane	<3.7 µg/l	TM208		<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208		<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
trans-1,2-Dichloroethene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,1-Dichloroethane	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
cis-1,2-Dichloroethene	<2.3 µg/l	TM208		<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
2,2-Dichloropropane	<3.8 µg/l	TM208		<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
Bromochloromethane	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroform	<1.8 µg/l	TM208		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,1,1-Trichloroethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloropropene	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Carbontetrachloride	<1.4 µg/l	TM208		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-Dichloroethane	<3.3 µg/l	TM208		<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Benzene	<1.3 µg/l	TM208		32.8	<1.3	<1.3	<1.3	<1.3	<1.3
Trichloroethene	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	<3 µg/l	TM208		<3	<3	<3	<3	<3	<3
Dibromomethane	<2.7 µg/l	TM208		<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Bromodichloromethane	<0.9 µg/l	TM208		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
cis-1,3-Dichloropropene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Toluene	<1.4 µg/l	TM208		6.77	<1.4	<1.4	<1.4	<1.4	<1.4
trans-1,3-Dichloropropene	<3.5 µg/l	TM208		<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,2-Trichloroethane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,3-Dichloropropane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Tetrachloroethene	<1.5 µg/l	TM208		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dibromochloromethane	<1.7 µg/l	TM208		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R		MSMW149	P1AF014	P1AF017	TA1/1	TA1/2	UNK2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.				14/04/2011	13/04/2011	14/04/2011	14/04/2011	14/04/2011	13/04/2011
S	Non-conforming work.				15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011
aq	Aqueous / settled sample.				110415-23	110415-23	110415-23	110415-23	110415-23	110415-23
diss.filt	Dissolved / filtered sample.				3302114	3301989	3301992	3301873	3301858	3301999
tot.unfilt	Total / unfiltered sample.				EW1	EW1	EW1	EW1	EW1	EW1
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
1,2-Dibromoethane	<2.3 µg/l	TM208			<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
Chlorobenzene	<3.5 µg/l	TM208			<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208			<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene	<2.5 µg/l	TM208			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
m,p-Xylene	<2.5 µg/l	TM208			10.4	<2.5	<2.5	<2.5	<2.5	<2.5
o-Xylene	<1.7 µg/l	TM208			3.7	<1.7	<1.7	<1.7	<1.7	<1.7
Styrene	<1.2 µg/l	TM208			<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Bromoform	<3 µg/l	TM208			<3	<3	<3	<3	<3	<3
Isopropylbenzene	<1.4 µg/l	TM208			3.21	<1.4	<1.4	<1.4	<1.4	<1.4
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208			<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
1,2,3-Trichloropropane	<7.8 µg/l	TM208			<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Bromobenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
Propylbenzene	<2.6 µg/l	TM208			<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
2-Chlorotoluene	<1.9 µg/l	TM208			<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
4-Chlorotoluene	<1.9 µg/l	TM208			<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
tert-Butylbenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208			<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
sec-Butylbenzene	<1.7 µg/l	TM208			1.92	<1.7	<1.7	<1.7	<1.7	<1.7
4-iso-Propyltoluene	<2.6 µg/l	TM208			<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
1,3-Dichlorobenzene	<2.2 µg/l	TM208			<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,4-Dichlorobenzene	<2.7 µg/l	TM208			<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
n-Butylbenzene	<2 µg/l	TM208			<2	<2	<2	<2	<2	<2
1,2-Dichlorobenzene	<3.7 µg/l	TM208			<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
1,2-Dibromo-3-chloropropane	<9.8 µg/l	TM208			<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208			<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
Hexachlorobutadiene	<2.5 µg/l	TM208			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208			<1	<1	<1	<1	<1	<1
Naphthalene	<3.5 µg/l	TM208			<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208			<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
1,3,5-Trichlorobenzene	<10 µg/l	TM208			<10	<10	<10	<10	<10	<10



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R	WSMW031	WSMW034	WSMW052	WSMW053	WSMW056	WSMW058
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
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 the individual compounds within the samples are not corrected for this recovery.								
Component	LOD/Units	Method	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3302090 EW1	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3301849 EW1	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3302078 EW1	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3302095 EW1	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3301865 EW1	Water(GW/SW) 14/04/2011 15/04/2011 110415-23 3301883 EW1
Dibromofluoromethane**	%	TM208		105	114	105	107	109	107
Toluene-d8**	%	TM208		99.7	98.8	99.5	99.8	98.6	99.4
4-Bromofluorobenzene**	%	TM208		97.1	95.4	95.8	96.1	95.8	96.9
Dichlorodifluoromethane	<7 µg/l	TM208		<7	<7	<7	<7	<7	<7
Chloromethane	<9 µg/l	TM208		<9	<9	<9	<9	<9	<9
Vinyl chloride	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Bromomethane	<2 µg/l	TM208		<2	<2	<2	<2	<2	<2
Chloroethane	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	14.1
Trichlorofluoromethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloroethene	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon disulphide	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Dichloromethane	<3.7 µg/l	TM208		<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208		<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
trans-1,2-Dichloroethene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
1,1-Dichloroethane	<1.2 µg/l	TM208		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
cis-1,2-Dichloroethene	<2.3 µg/l	TM208		<2.3	<2.3	<2.3	<2.3	<2.3	<2.3
2,2-Dichloropropane	<3.8 µg/l	TM208		<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
Bromochloromethane	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroform	<1.8 µg/l	TM208		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,1,1-Trichloroethane	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
1,1-Dichloropropene	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Carbontetrachloride	<1.4 µg/l	TM208		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-Dichloroethane	<3.3 µg/l	TM208		<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Benzene	<1.3 µg/l	TM208		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Trichloroethene	<2.5 µg/l	TM208		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloropropane	<3 µg/l	TM208		<3	<3	<3	<3	<3	<3
Dibromomethane	<2.7 µg/l	TM208		<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Bromodichloromethane	<0.9 µg/l	TM208		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
cis-1,3-Dichloropropene	<1.9 µg/l	TM208		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Toluene	<1.4 µg/l	TM208		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
trans-1,3-Dichloropropene	<3.5 µg/l	TM208		<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
1,1,2-Trichloroethane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,3-Dichloropropane	<2.2 µg/l	TM208		<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Tetrachloroethene	<1.5 µg/l	TM208		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dibromochloromethane	<1.7 µg/l	TM208		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R		WSMW031	WSMW034	WSMW052	WSMW053	WSMW056	WSMW058
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
M	mCERTS accredited.				14/04/2011	14/04/2011	14/04/2011	14/04/2011	14/04/2011	14/04/2011
S	Non-conforming work.				15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011	15/04/2011
aq	Aqueous / settled sample.				110415-23	110415-23	110415-23	110415-23	110415-23	110415-23
diss.filt	Dissolved / filtered sample.				3302090	3301849	3302078	3302095	3301865	3301883
tot.unfilt	Total / unfiltered sample.				EW1	EW1	EW1	EW1	EW1	EW1
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
1,2-Dibromoethane	<2.3 µg/l	TM208			<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #
Chlorobenzene	<3.5 µg/l	TM208			<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208			<1.3 #	<1.3 #	<1.3 #	<1.3 #	<1.3 #	<1.3 #
Ethylbenzene	<2.5 µg/l	TM208			<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #
m,p-Xylene	<2.5 µg/l	TM208			<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #
o-Xylene	<1.7 µg/l	TM208			<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
Styrene	<1.2 µg/l	TM208			<1.2 #	<1.2 #	<1.2 #	<1.2 #	<1.2 #	<1.2 #
Bromoform	<3 µg/l	TM208			<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Isopropylbenzene	<1.4 µg/l	TM208			<1.4 #	<1.4 #	<1.4 #	<1.4 #	<1.4 #	2.49 #
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208			<5.2 #	<5.2 #	<5.2 #	<5.2 #	<5.2 #	<5.2 #
1,2,3-Trichloropropane	<7.8 µg/l	TM208			<7.8 #	<7.8 #	<7.8 #	<7.8 #	<7.8 #	<7.8 #
Bromobenzene	<2 µg/l	TM208			<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
Propylbenzene	<2.6 µg/l	TM208			<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #
2-Chlorotoluene	<1.9 µg/l	TM208			<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208			<1.8 #	<1.8 #	<1.8 #	<1.8 #	<1.8 #	<1.8 #
4-Chlorotoluene	<1.9 µg/l	TM208			<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #	<1.9 #
tert-Butylbenzene	<2 µg/l	TM208			<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208			<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
sec-Butylbenzene	<1.7 µg/l	TM208			<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #	<1.7 #
4-iso-Propyltoluene	<2.6 µg/l	TM208			<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #	<2.6 #
1,3-Dichlorobenzene	<2.2 µg/l	TM208			<2.2 #	<2.2 #	<2.2 #	<2.2 #	<2.2 #	<2.2 #
1,4-Dichlorobenzene	<2.7 µg/l	TM208			<2.7 #	<2.7 #	<2.7 #	<2.7 #	<2.7 #	<2.7 #
n-Butylbenzene	<2 µg/l	TM208			<2 #	<2 #	<2 #	<2 #	<2 #	<2 #
1,2-Dichlorobenzene	<3.7 µg/l	TM208			<3.7 #	<3.7 #	<3.7 #	<3.7 #	<3.7 #	<3.7 #
1,2-Dibromo-3-chloropropane	<9.8 µg/l	TM208			<9.8 #	<9.8 #	<9.8 #	<9.8 #	<9.8 #	<9.8 #
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208			<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #	<2.3 #
Hexachlorobutadiene	<2.5 µg/l	TM208			<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #	<2.5 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208			<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Naphthalene	<3.5 µg/l	TM208			<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #	<3.5 #
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208			<3.1 #	<3.1 #	<3.1 #	<3.1 #	<3.1 #	<3.1 #
1,3,5-Trichlorobenzene	<10 µg/l	TM208			<10 #	<10 #	<10 #	<10 #	<10 #	<10 #



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	WSTP121				
#	ISO17025 accredited.						
M	mCERTS accredited.						
§	Non-conforming work.						
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 the individual compounds within the samples are not corrected for this recovery.						
Component	LOD/Units	Method					
Dibromofluoromethane**	%	TM208	105				
Toluene-d8**	%	TM208	100				
4-Bromofluorobenzene**	%	TM208	96.7				
Dichlorodifluoromethane	<7 µg/l	TM208	<7	#			
Chloromethane	<9 µg/l	TM208	<9	#			
Vinyl chloride	<1.2 µg/l	TM208	<1.2	#			
Bromomethane	<2 µg/l	TM208	<2	#			
Chloroethane	<2.5 µg/l	TM208	<2.5	#			
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	#			
1,1-Dichloroethene	<1.2 µg/l	TM208	<1.2	#			
Carbon disulphide	<1.3 µg/l	TM208	<1.3	#			
Dichloromethane	<3.7 µg/l	TM208	<3.7	#			
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	#			
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	#			
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	#			
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	#			
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	#			
Bromochloromethane	<1.9 µg/l	TM208	<1.9	#			
Chloroform	<1.8 µg/l	TM208	<1.8	#			
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	#			
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	#			
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	#			
1,2-Dichloroethane	<3.3 µg/l	TM208	<3.3				
Benzene	<1.3 µg/l	TM208	<1.3	#			
Trichloroethene	<2.5 µg/l	TM208	<2.5	#			
1,2-Dichloropropane	<3 µg/l	TM208	<3	#			
Dibromomethane	<2.7 µg/l	TM208	<2.7	#			
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	#			
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	#			
Toluene	<1.4 µg/l	TM208	<1.4	#			
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	#			
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	#			
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	#			
Tetrachloroethene	<1.5 µg/l	TM208	<1.5	#			
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	#			



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	WSTP121					
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	Water(GW/SW) 13/04/2011 15/04/2011 110415-23 3301996 EW1					
S	Non-conforming work.							
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 the individual compounds within the samples are not corrected for this recovery.							
Component								
1,2-Dibromoethane		<2.3 µg/l	TM208	<2.3	#			
Chlorobenzene		<3.5 µg/l	TM208	<3.5	#			
1,1,1,2-Tetrachloroethane		<1.3 µg/l	TM208	<1.3	#			
Ethylbenzene		<2.5 µg/l	TM208	<2.5	#			
m,p-Xylene		<2.5 µg/l	TM208	<2.5	#			
o-Xylene		<1.7 µg/l	TM208	<1.7	#			
Styrene		<1.2 µg/l	TM208	<1.2	#			
Bromoform		<3 µg/l	TM208	<3	#			
Isopropylbenzene		<1.4 µg/l	TM208	<1.4	#			
1,1,2,2-Tetrachloroethane		<5.2 µg/l	TM208	<5.2				
1,2,3-Trichloropropane		<7.8 µg/l	TM208	<7.8	#			
Bromobenzene		<2 µg/l	TM208	<2	#			
Propylbenzene		<2.6 µg/l	TM208	<2.6	#			
2-Chlorotoluene		<1.9 µg/l	TM208	<1.9	#			
1,3,5-Trimethylbenzene		<1.8 µg/l	TM208	<1.8	#			
4-Chlorotoluene		<1.9 µg/l	TM208	<1.9	#			
tert-Butylbenzene		<2 µg/l	TM208	<2	#			
1,2,4-Trimethylbenzene		<1.7 µg/l	TM208	<1.7	#			
sec-Butylbenzene		<1.7 µg/l	TM208	<1.7	#			
4-iso-Propyltoluene		<2.6 µg/l	TM208	<2.6	#			
1,3-Dichlorobenzene		<2.2 µg/l	TM208	<2.2	#			
1,4-Dichlorobenzene		<2.7 µg/l	TM208	<2.7	#			
n-Butylbenzene		<2 µg/l	TM208	<2	#			
1,2-Dichlorobenzene		<3.7 µg/l	TM208	<3.7				
1,2-Dibromo-3-chloroprop ane		<9.8 µg/l	TM208	<9.8				
1,2,4-Trichlorobenzene		<2.3 µg/l	TM208	<2.3	#			
Hexachlorobutadiene		<2.5 µg/l	TM208	<2.5	#			
tert-Amyl methyl ether (TAME)		<1 µg/l	TM208	<1	#			
Naphthalene		<3.5 µg/l	TM208	<3.5	#			
1,2,3-Trichlorobenzene		<3.1 µg/l	TM208	<3.1	#			
1,3,5-Trichlorobenzene		<10 µg/l	TM208	<10				



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Notification of Non-Conforming Work

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aliphatics >C10-C12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aliphatics >C5-C6	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aliphatics >C6-C8	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aliphatics >C8-C10	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aromatics >EC10-EC12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aromatics >EC5-EC7	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aromatics >EC7-EC8	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Aromatics >EC8-EC10	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Benzene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	BTEX, Total	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	EPH (C6-C10)	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	EPH (C6-C10) mg/l	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C10-C12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C5-C10	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C5-C12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C5-C6	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C6-C7	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C6-C8	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C7-C8	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO >C8-C10	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO QC	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	GRO Surrogate % recovery**	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	m,p,o-Xylene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	o-Xylene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	QC raw	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Toluene	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Total Aliphatics >C5-C12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Total Aromatics >EC5-EC12	Volatile Analysis performed on vessel with headspace
3302394	P1AF017 EW1		LIQUID	GRO by GC-FID (W)	Trace	Volatile Analysis performed on vessel with headspace

Note : Test results may be invalid



SDG:	110415-23	Location:	Coed Darcy Urban Village	Order Number:	CD0113
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126458
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10 ⁻⁷							
NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM245	By GC-FID	Determination of GRO by Headspace in waters		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		

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



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Test Completion Dates

Lab Sample No(s)	3302114	3301989	3301992	3301873	3301858	3301999	3302090	3301849	3302078	3302095
Customer Sample Ref.	MSMW149	P1AF014	P1AF017	TA1/1	TA1/2	UNK2	WSMW031	WSMW034	WSMW052	WSMW053
AGS Ref.	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1	EW1
Depth										
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Dissolved Metals by ICP-MS	19-Apr-2011	18-Apr-2011	19-Apr-2011	18-Apr-2011	18-Apr-2011	19-Apr-2011	19-Apr-2011	18-Apr-2011	19-Apr-2011	19-Apr-2011
EPH CWG (Aliphatic) Aqueous GC (W)	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011
EPH CWG (Aromatic) Aqueous GC (W)	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011
GRO by GC-FID (W)	20-Apr-2011	20-Apr-2011	22-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011	20-Apr-2011
Mercury Dissolved	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011	18-Apr-2011
pH Value	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011
SVOC MS (W) - Aqueous	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011
TPH CWG (W)	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011	22-Apr-2011
VOC MS (W)	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011	19-Apr-2011

Lab Sample No(s)	3301865	3301883	3301996
Customer Sample Ref.	WSMW056	WSMW058	WSTP121
AGS Ref.	EW1	EW1	EW1
Depth			
Type	LIQUID	LIQUID	LIQUID
Dissolved Metals by ICP-MS	18-Apr-2011	19-Apr-2011	19-Apr-2011
EPH CWG (Aliphatic) Aqueous GC (W)	20-Apr-2011	20-Apr-2011	20-Apr-2011
EPH CWG (Aromatic) Aqueous GC (W)	20-Apr-2011	20-Apr-2011	20-Apr-2011
GRO by GC-FID (W)	20-Apr-2011	20-Apr-2011	20-Apr-2011
Mercury Dissolved	18-Apr-2011	18-Apr-2011	18-Apr-2011
pH Value	19-Apr-2011	19-Apr-2011	19-Apr-2011
SVOC MS (W) - Aqueous	21-Apr-2011	21-Apr-2011	21-Apr-2011
TPH CWG (W)	22-Apr-2011	22-Apr-2011	22-Apr-2011
VOC MS (W)	19-Apr-2011	19-Apr-2011	19-Apr-2011



CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

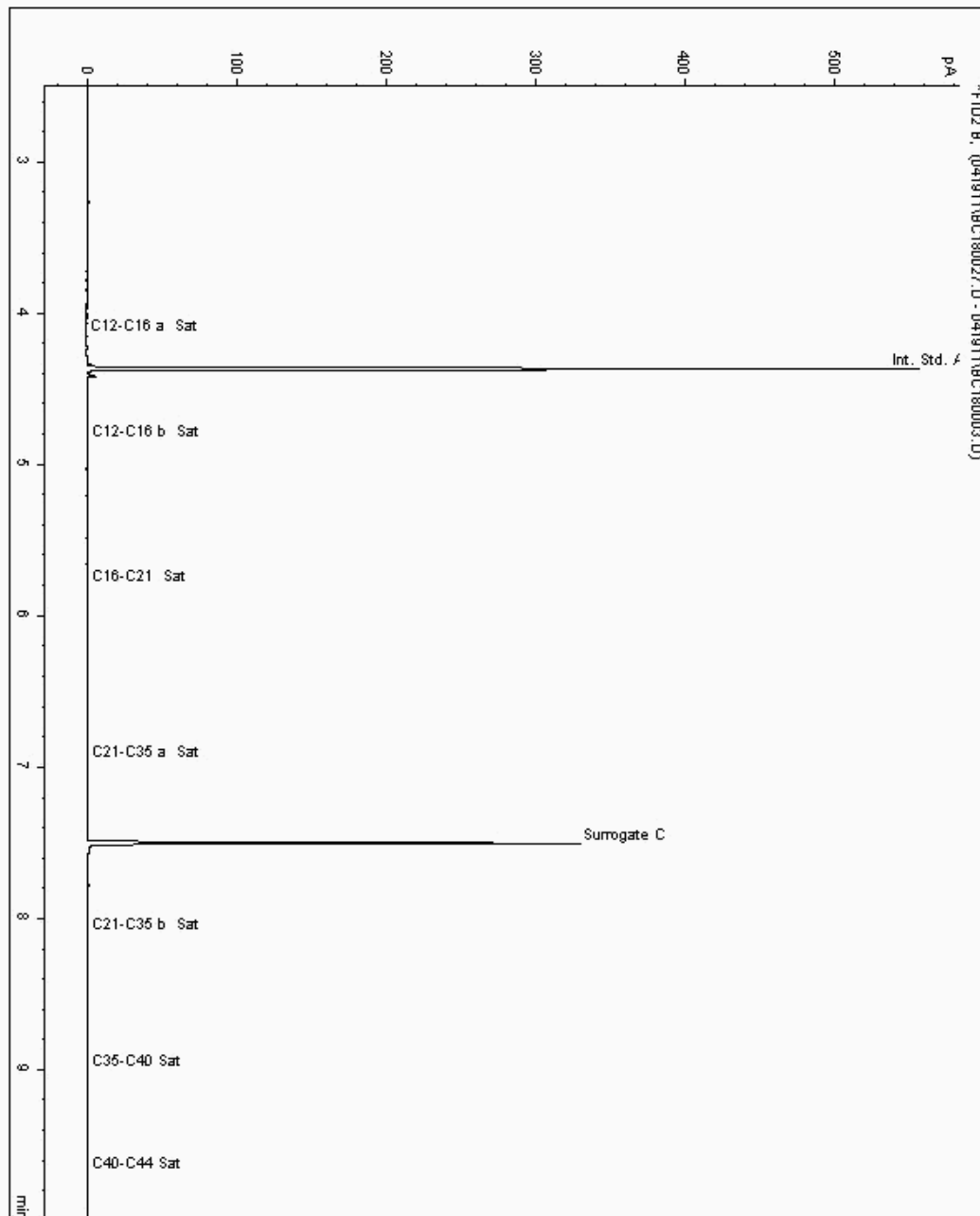
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309448
Sample ID : WSMW052

Depth :

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

Sample Identity: 3352376-3309448
Date Acquired : 20/04/11 12:36:23 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

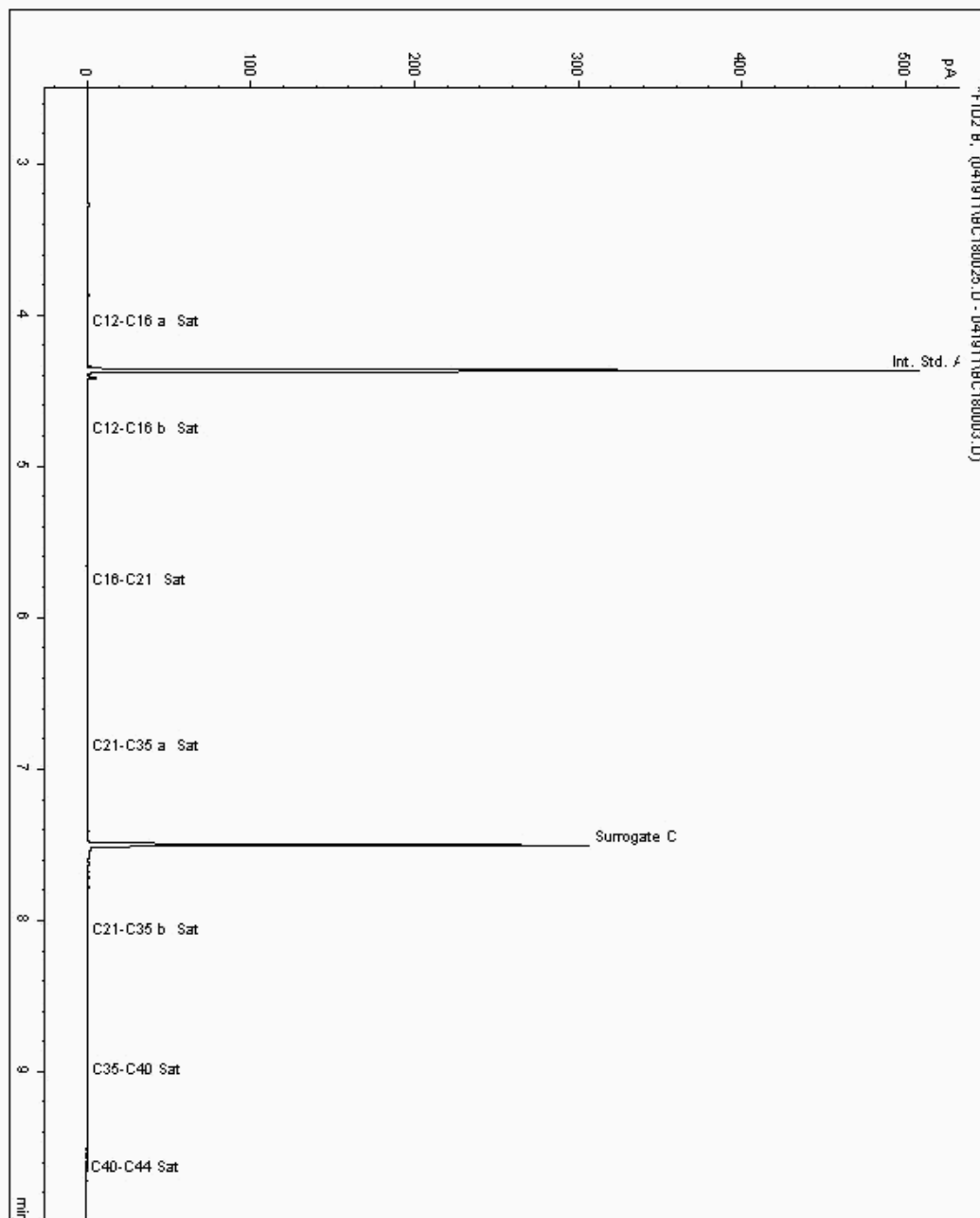
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309458
Sample ID : P1AF017

Depth :

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

Sample Identity: 3352343-3309458
Date Acquired : 20/04/11 11:59:23 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

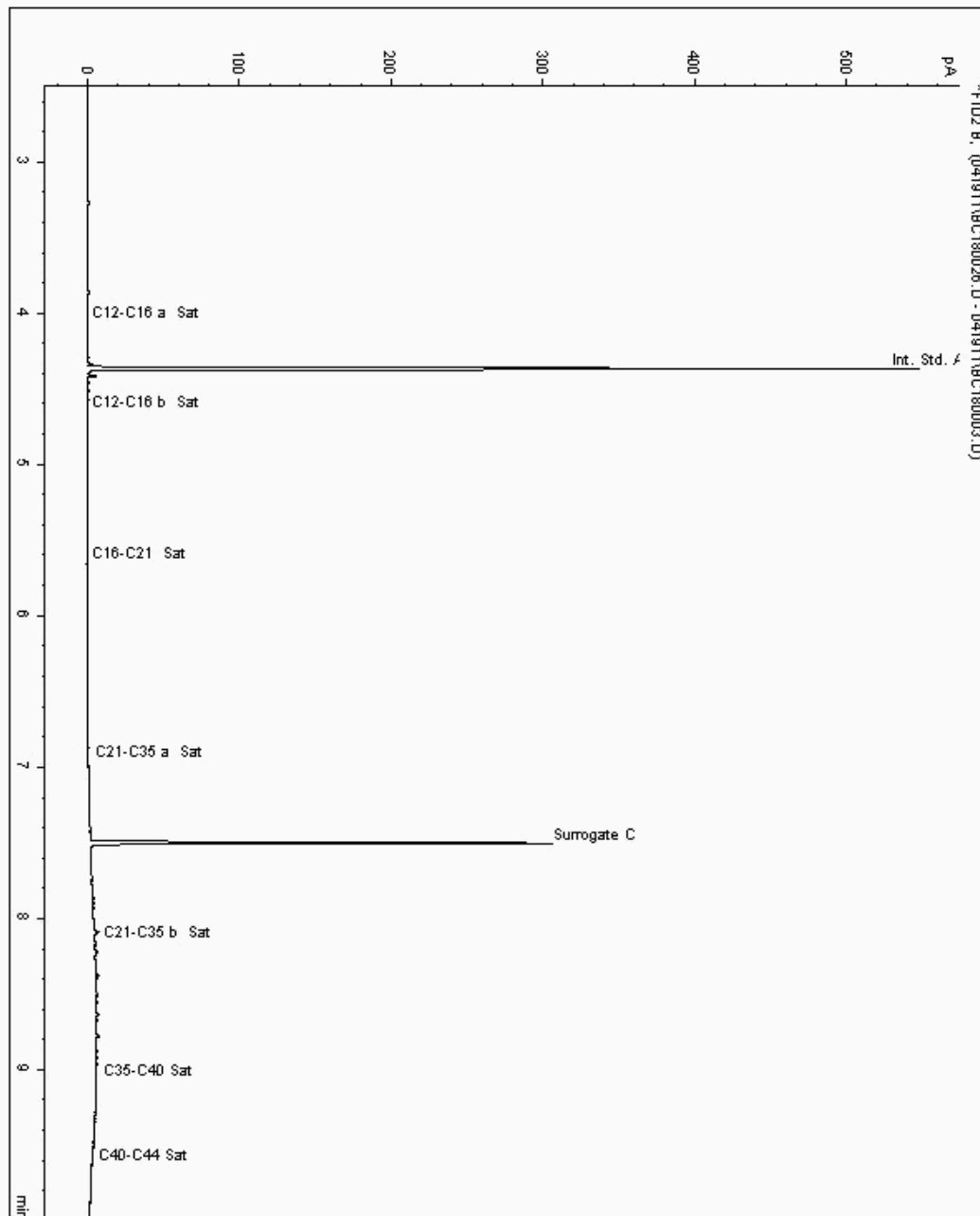
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309466
Sample ID : P1AF014

Depth :

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

Sample Identity: 3352332-3309466
Date Acquired : 20/04/11 12:17:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

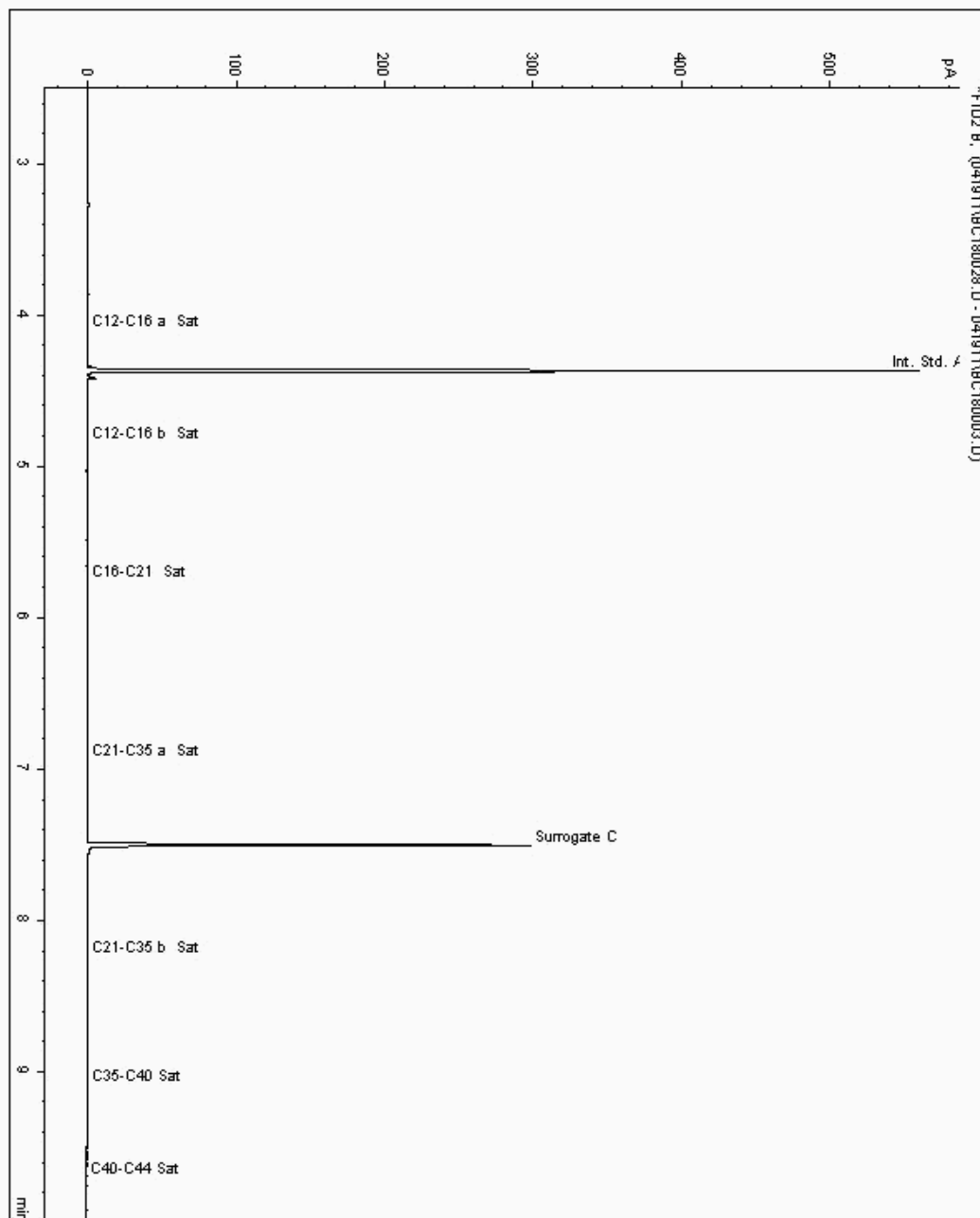
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309482
Sample ID : TA1/2

Depth :

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

Sample Identity: 3352288-3309482
Date Acquired : 20/04/11 12:54:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

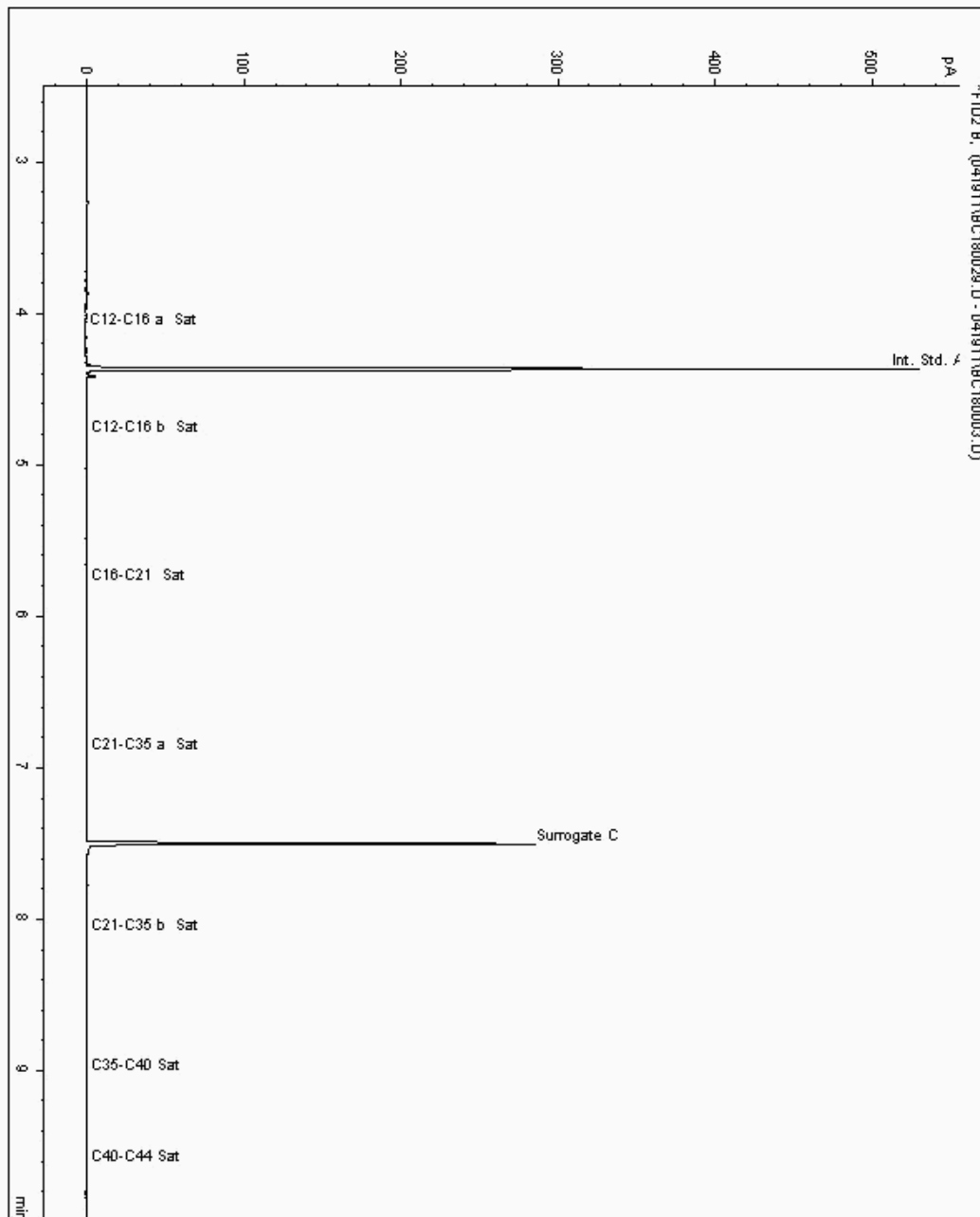
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309501
Sample ID : WSMW031

Depth :

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

Sample Identity: 3352387-3309501
Date Acquired : 20/04/11 13:13:42 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

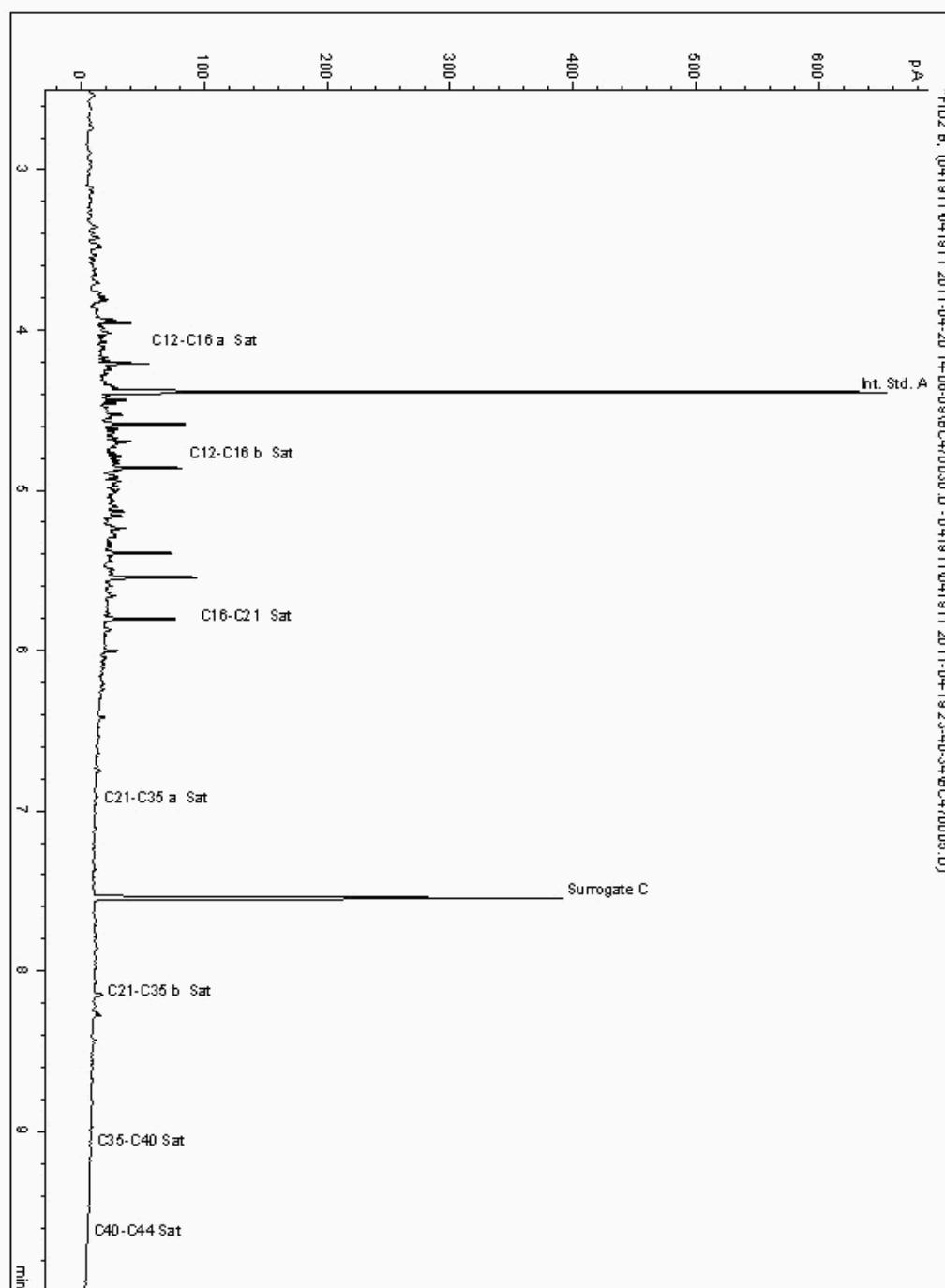
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309522
Sample ID : MSMW149

Depth :

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

Sample Identity: 3352409-3309522
Date Acquired : 20/04/11 16:28:51
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

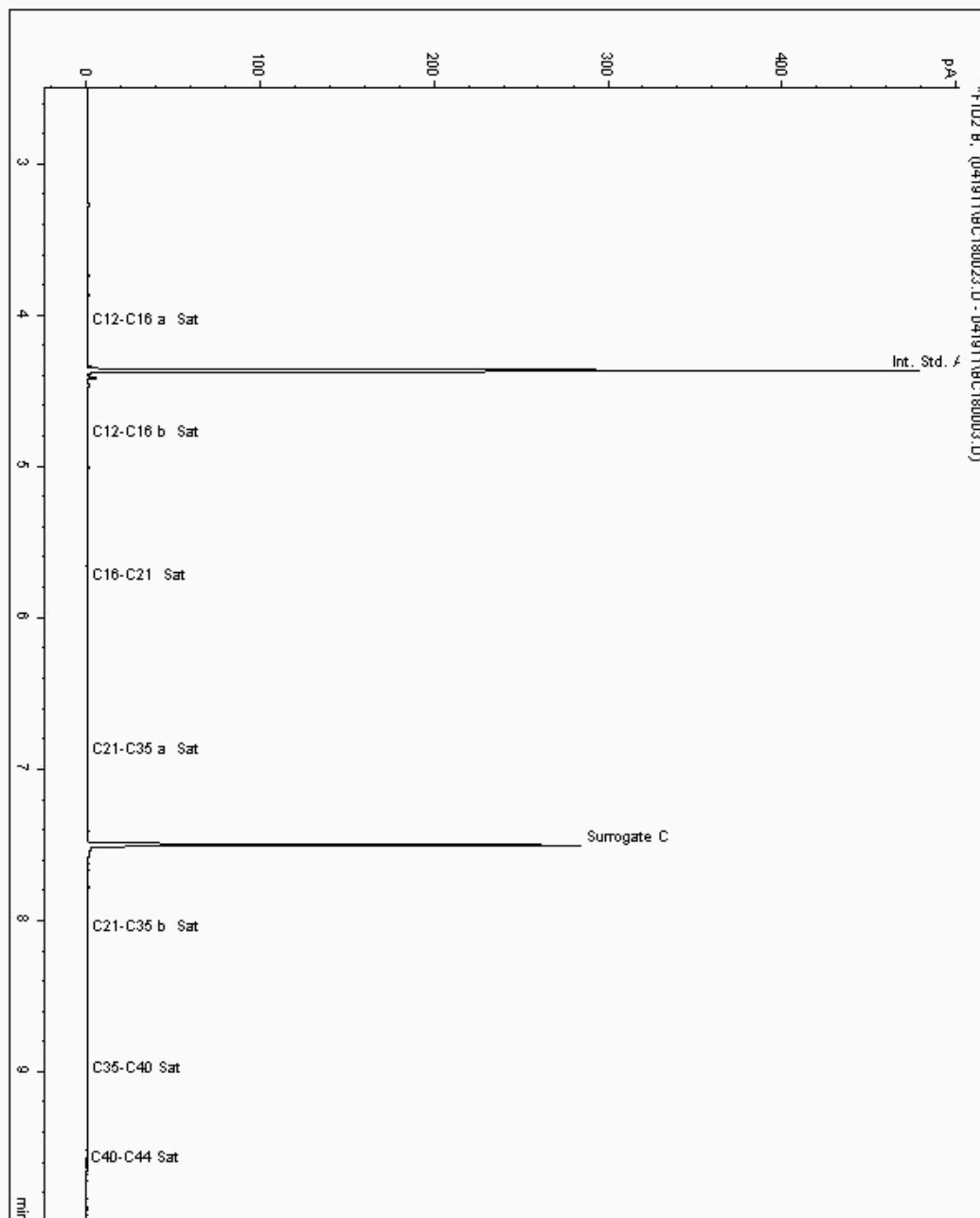
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309548
Sample ID : WSMW053

Depth :

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

Sample Identity: 3352398-3309548
Date Acquired : 20/04/11 11:22:14 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

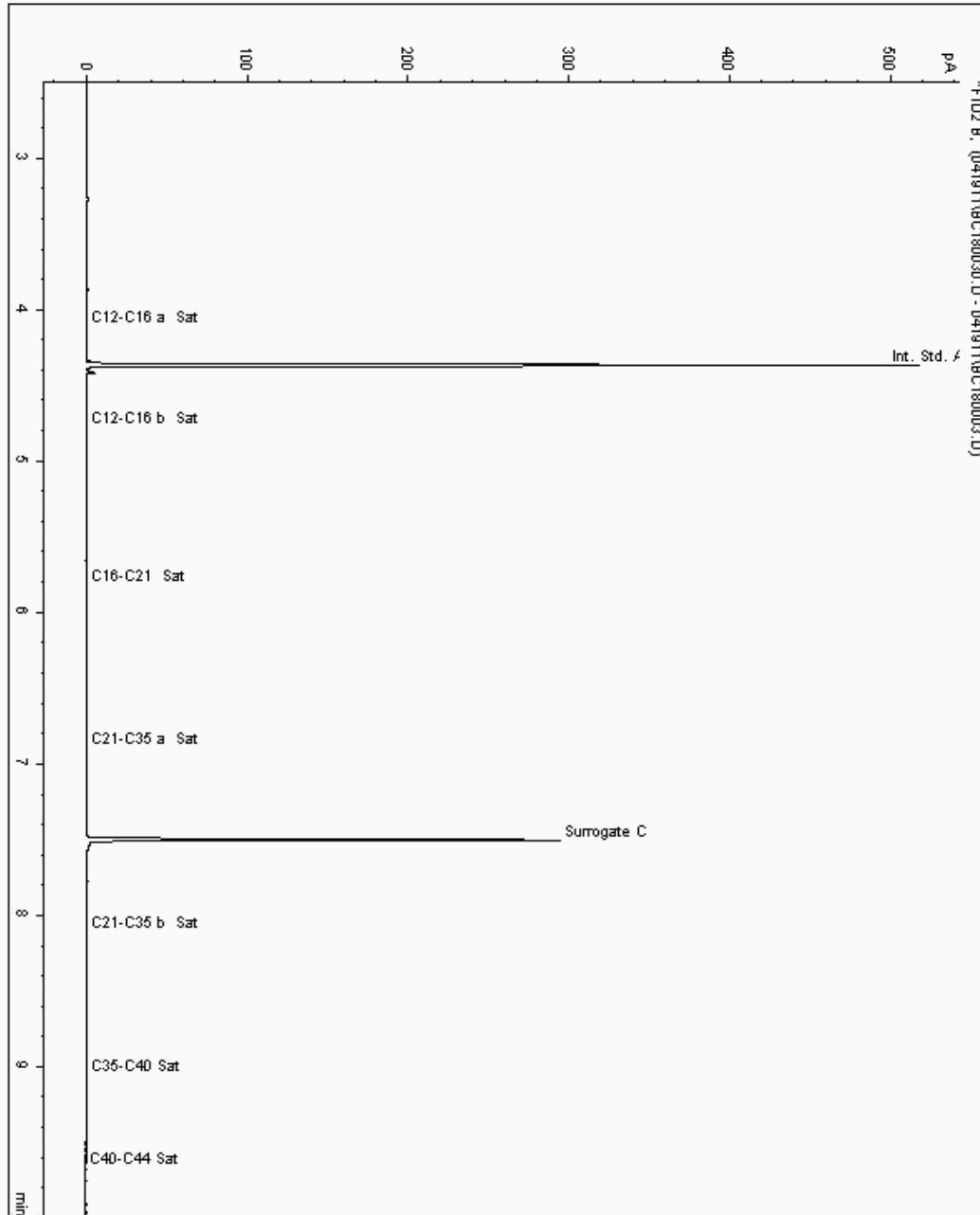
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3309561
Sample ID : WSTP121

Depth :

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

Sample Identity: 3352354-3309561
Date Acquired : 20/04/11 13:32:18 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

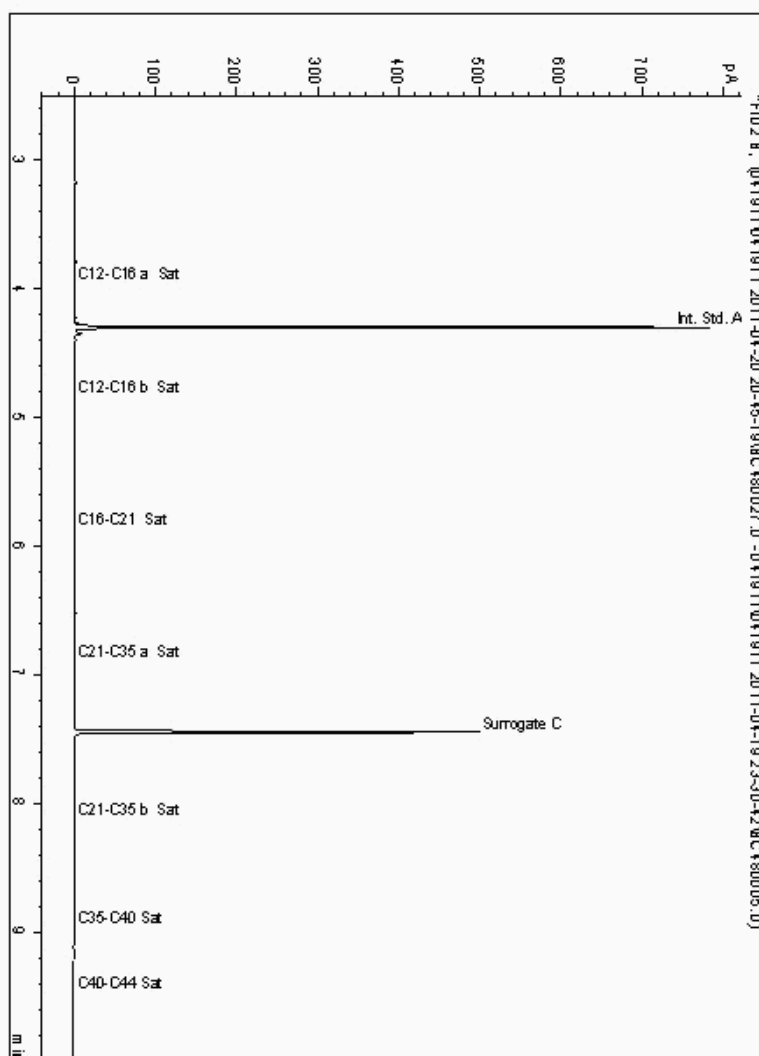
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3310710
Sample ID : TA1/1

Depth :

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

Sample Identity: 3352310-3310710
Date Acquired : 20/04/11 21:12:26
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

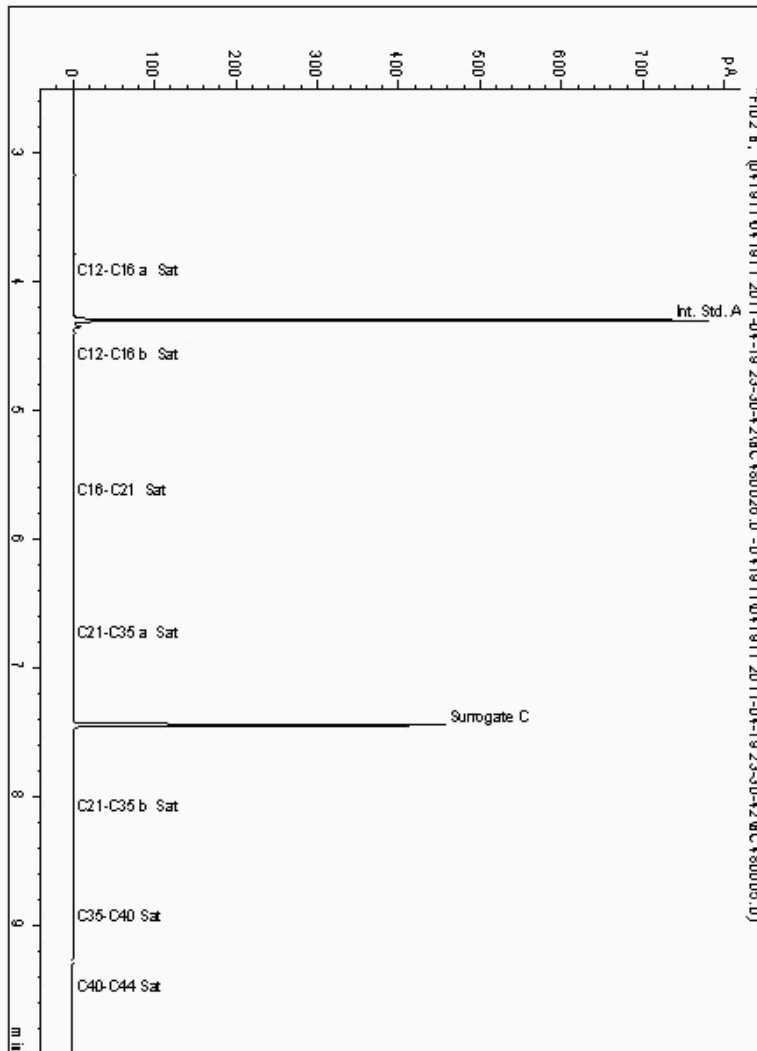
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3310727
Sample ID : WSMW058

Depth :

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

Sample Identity: 3352321-3310727
Date Acquired : 20/04/11 07:13:05
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008

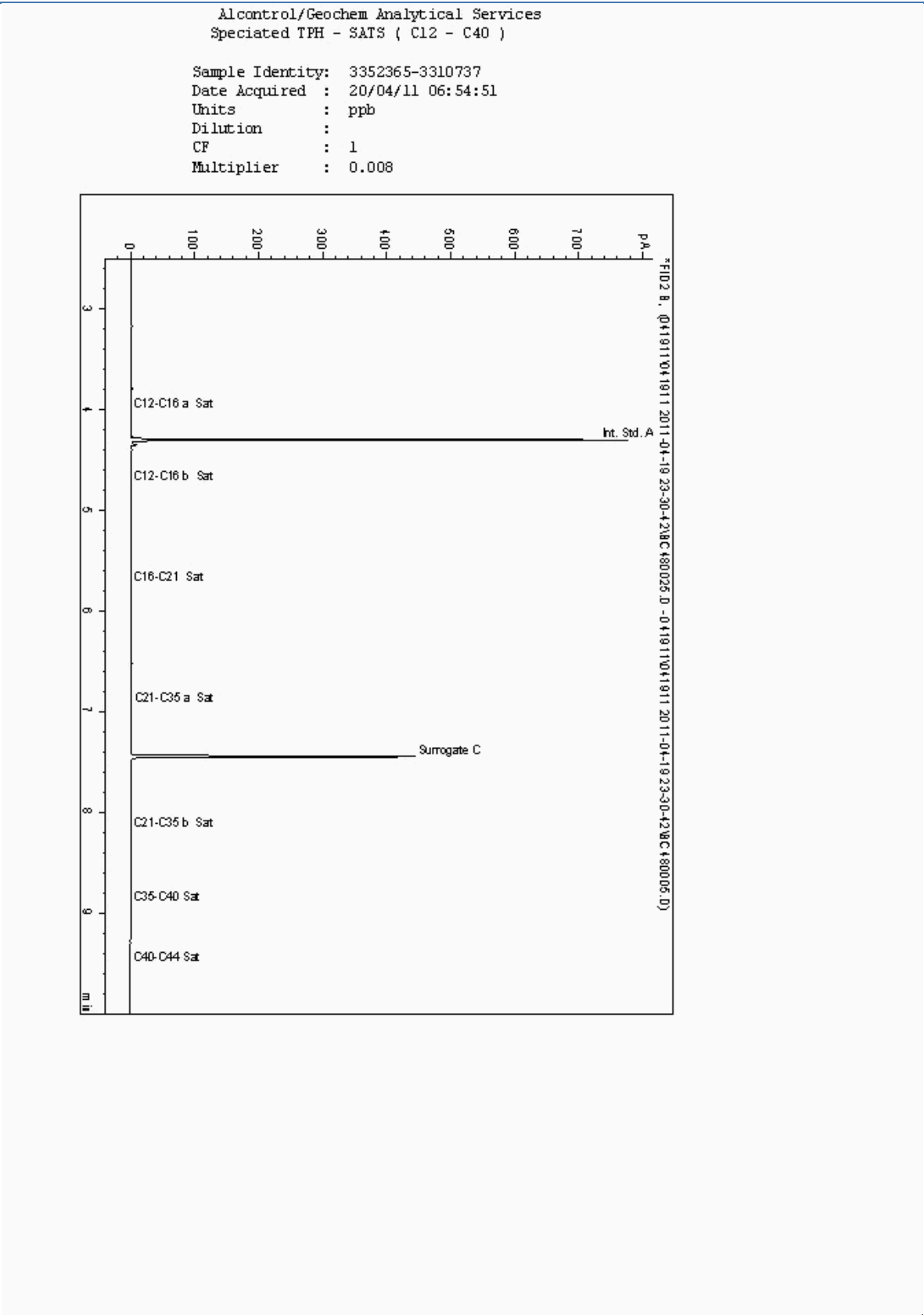




SDG:	110415-23	Location:	Coed Darcy Urban Village	Order Number:	CD0113
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126458
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Chromatogram

Analysis:	EPH CWG (Aliphatic) Aqueous GC (W)	Sample No :	3310737	Depth :	
		Sample ID :	UNK2		

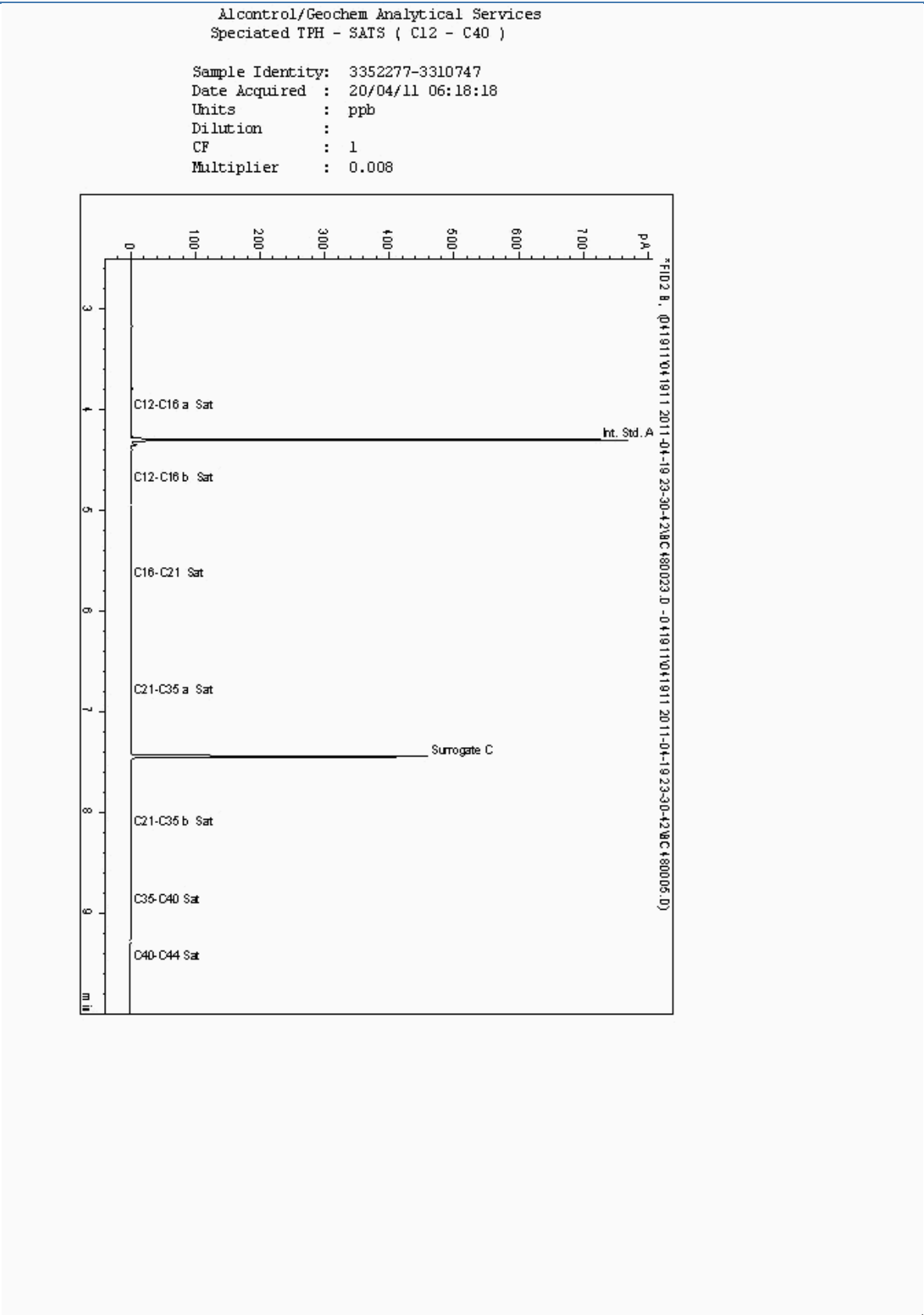




SDG:	110415-23	Location:	Coed Darcy Urban Village	Order Number:	CD0113
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126458
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	

Chromatogram

Analysis:	EPH CWG (Aliphatic) Aqueous GC (W)	Sample No :	3310747	Depth :	
		Sample ID :	WSMW034		





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

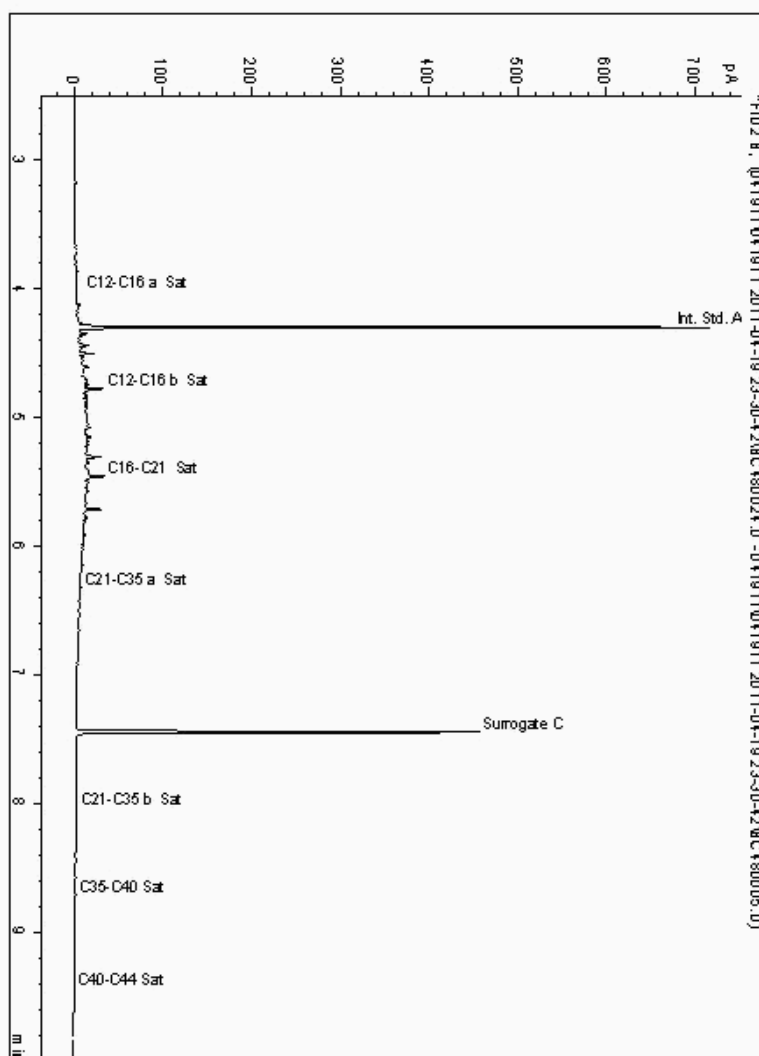
Analysis: EPH CWG (Aliphatic) Aqueous GC (W)

Sample No : 3310759
Sample ID : WSMW056

Depth :

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

Sample Identity: 3352299-3310759
Date Acquired : 20/04/11 06:36:29
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

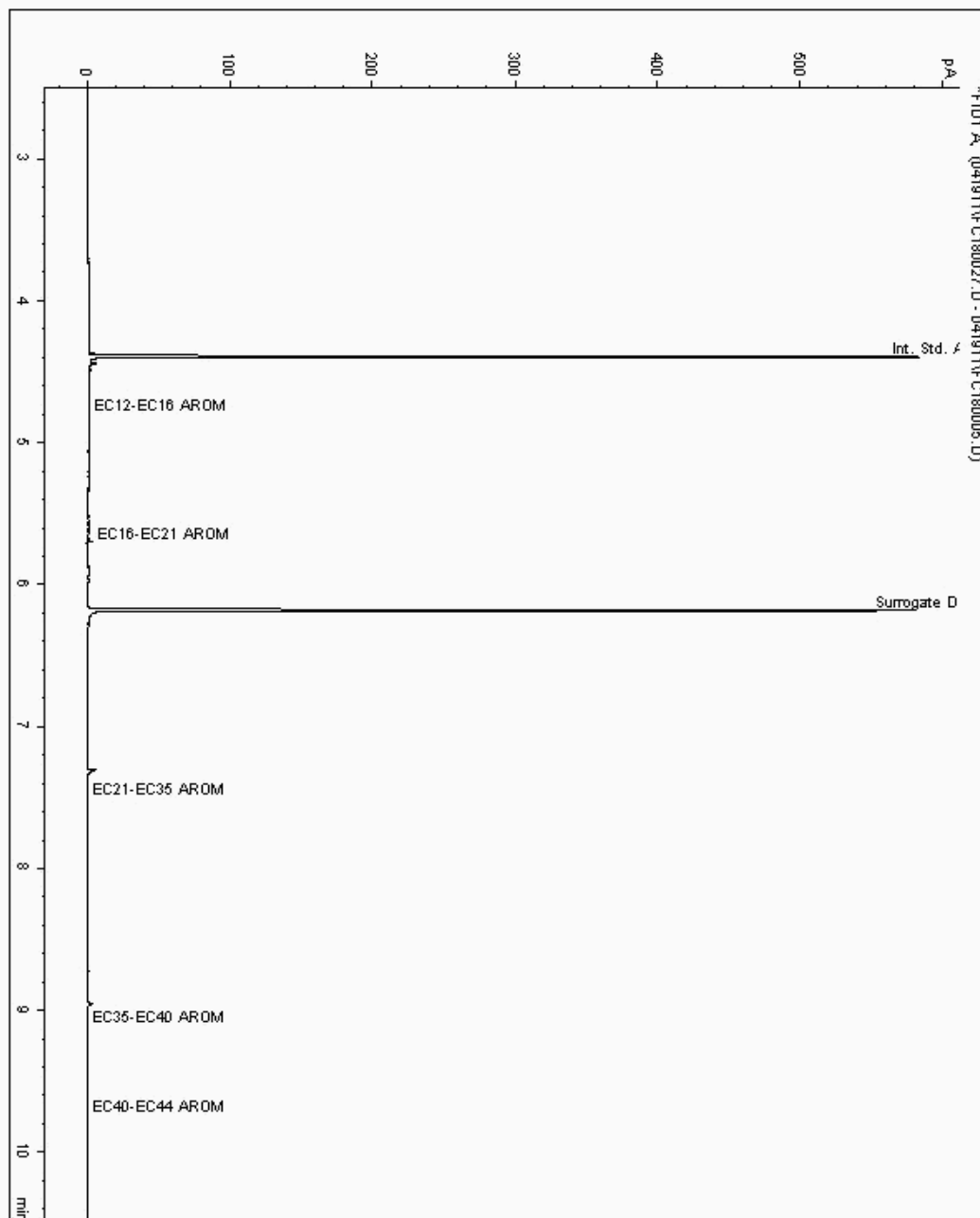
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309448
Sample ID : WSMW052

Depth :

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

Sample Identity: 3352377-3309448
Date Acquired : 20/04/11 12:36:23 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

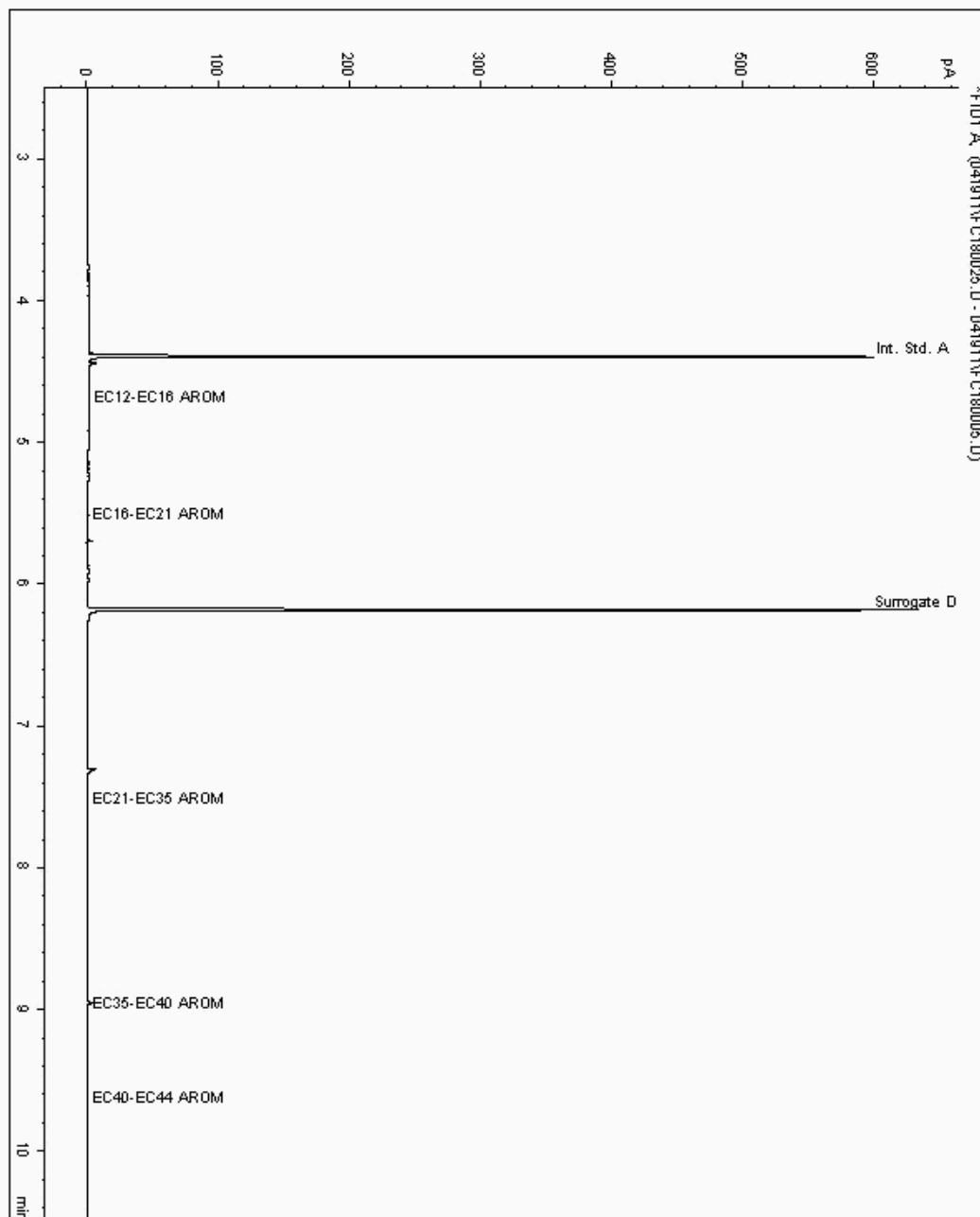
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309458
Sample ID : P1AF017

Depth :

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

Sample Identity: 3352344-3309458
Date Acquired : 20/04/11 11:59:23 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

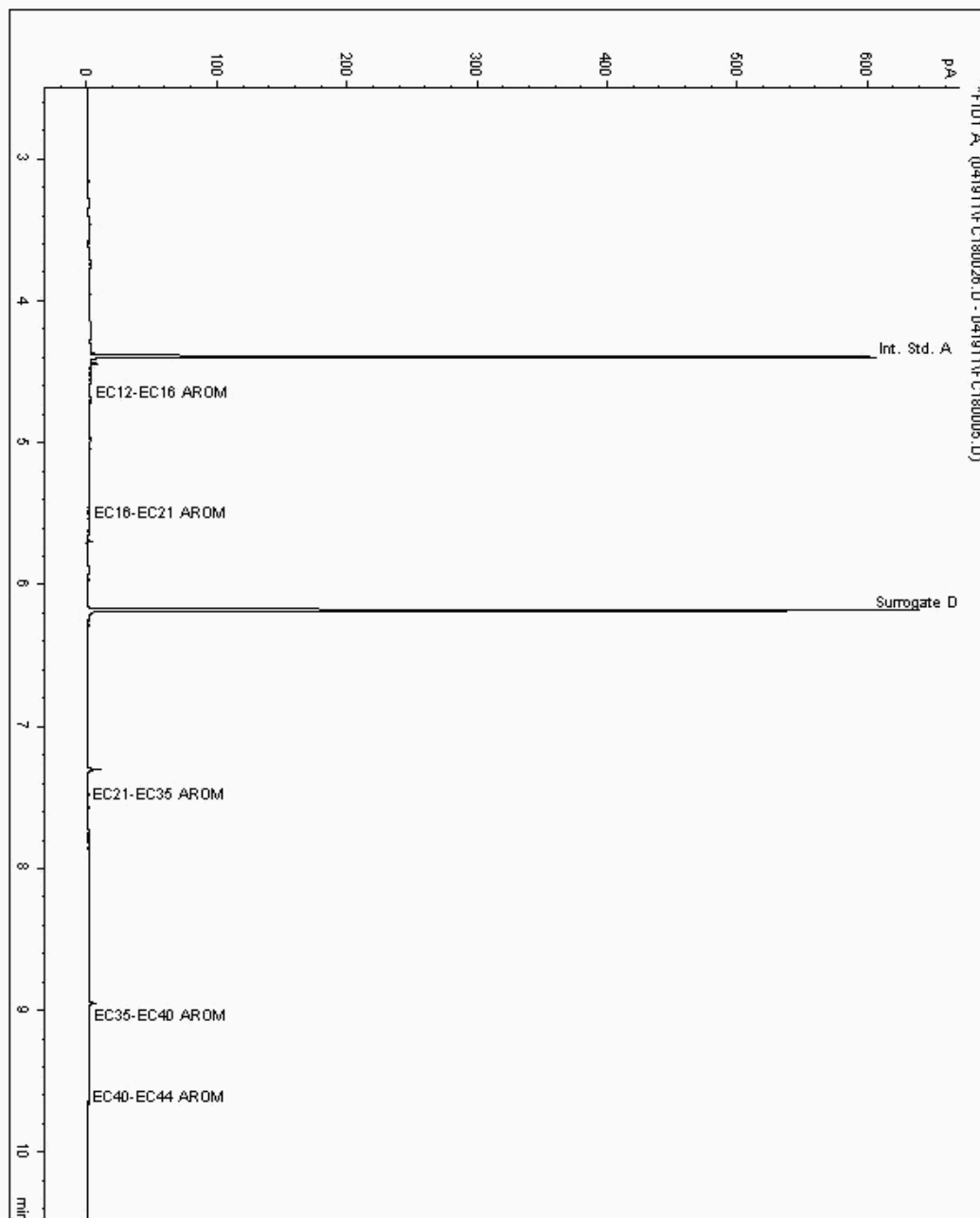
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309466
Sample ID : P1AF014

Depth :

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

Sample Identity: 3352333-3309466
Date Acquired : 20/04/11 12:17:53 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

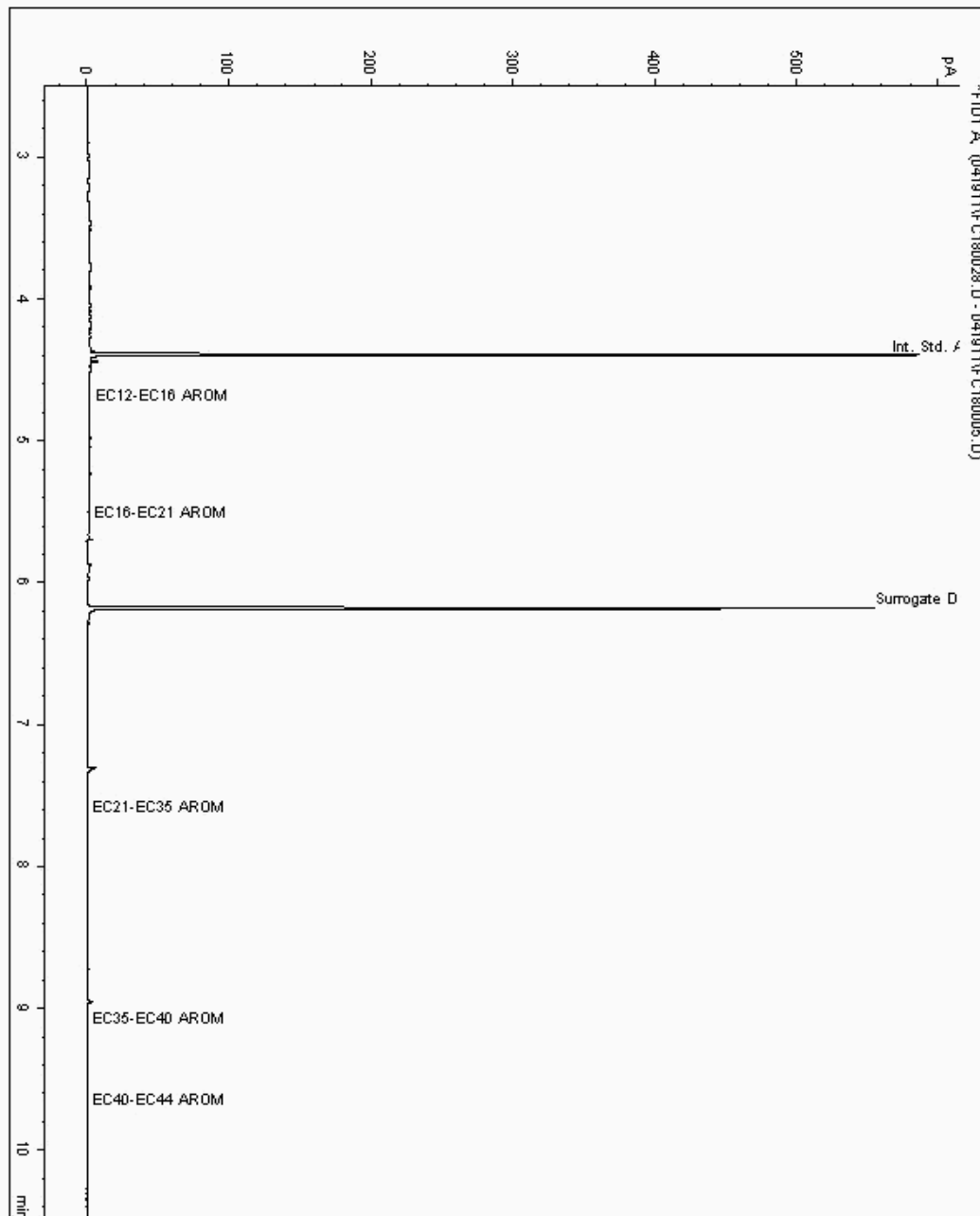
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309482
Sample ID : TA1/2

Depth :

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

Sample Identity: 3352289-3309482
Date Acquired : 20/04/11 12:54:55 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

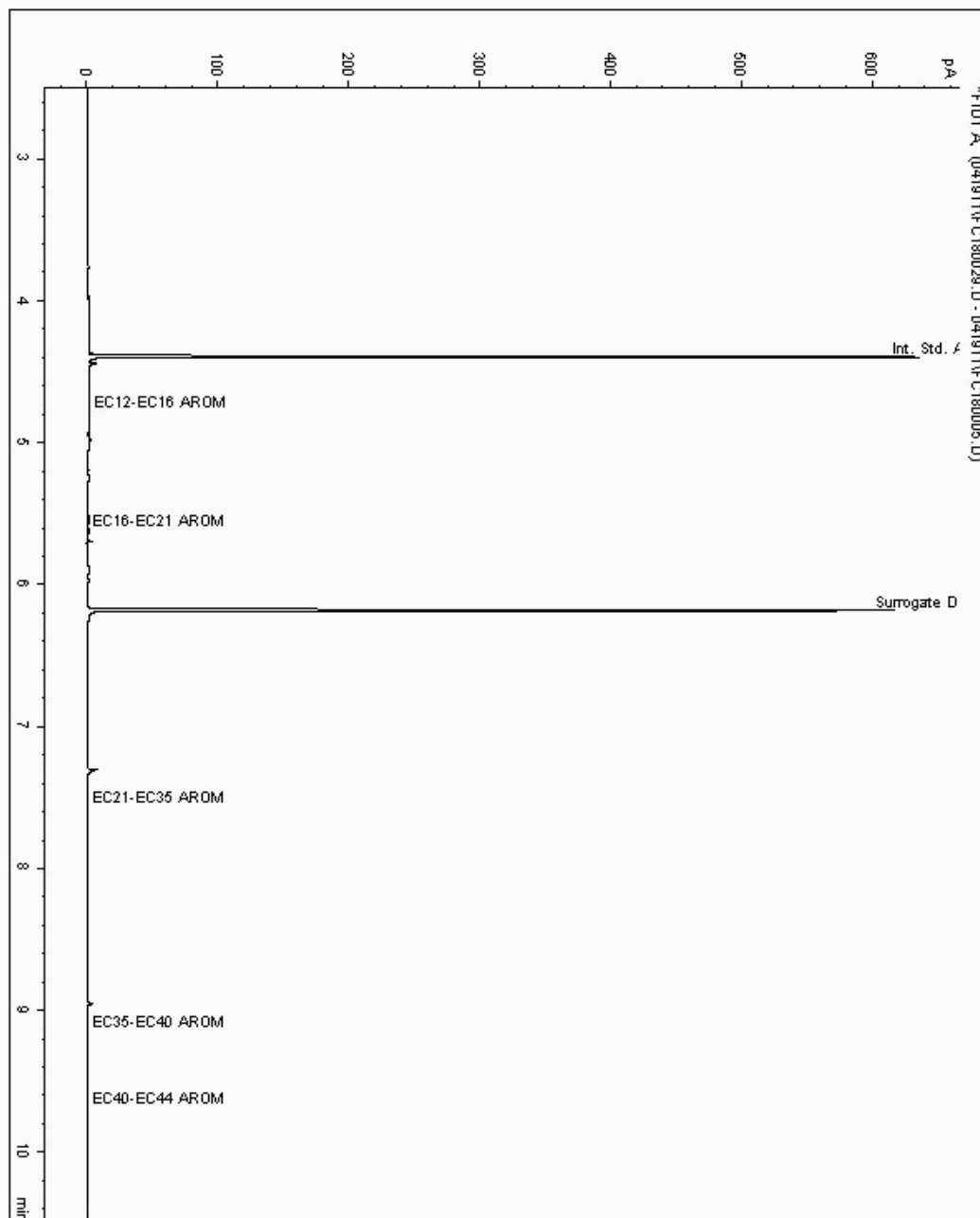
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309501
Sample ID : WSMW031

Depth :

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

Sample Identity: 3352388-3309501
Date Acquired : 20/04/11 13:13:41 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

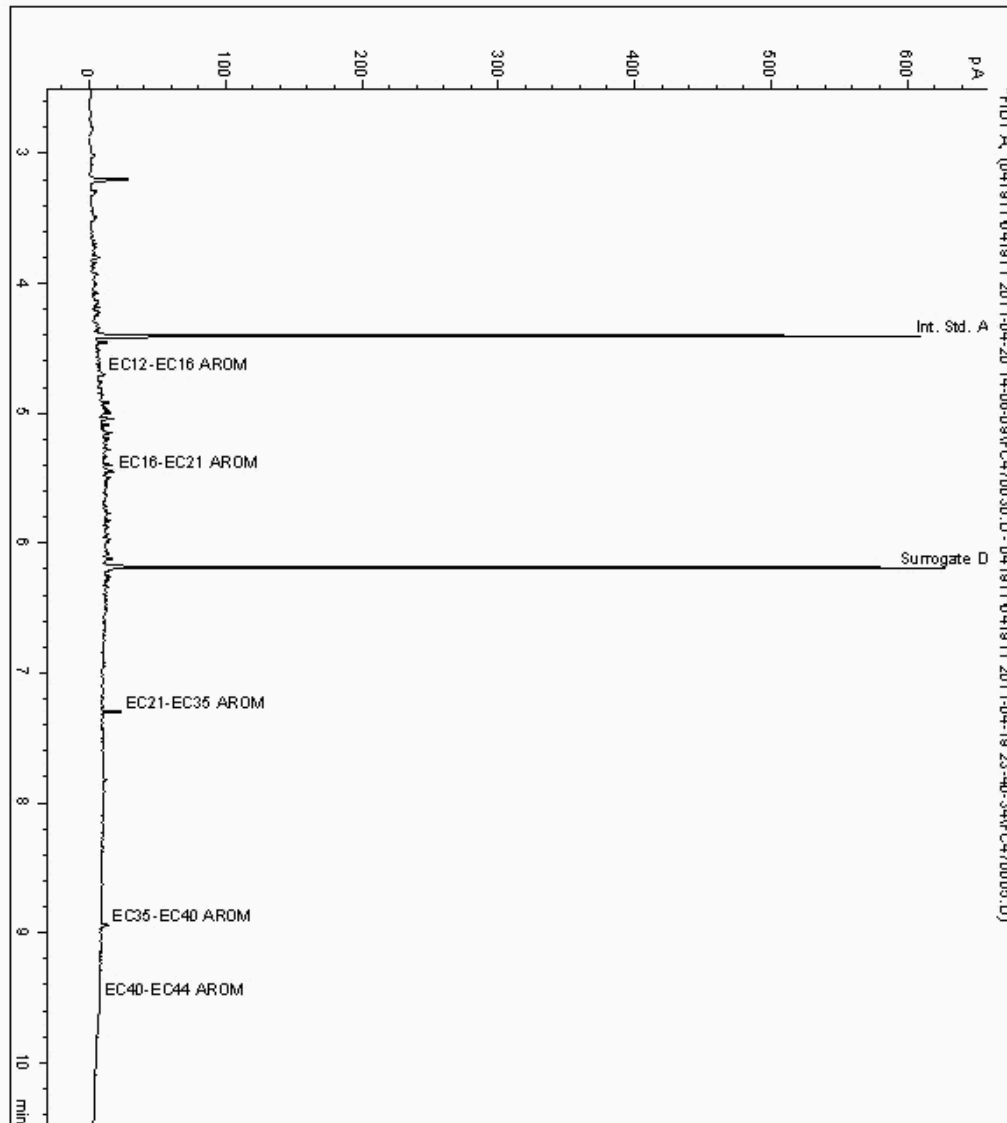
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309522
Sample ID : MSMW149

Depth :

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

Sample Identity: 3352410-3309522
Date Acquired : 20/04/11 16:28:51
Units :
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

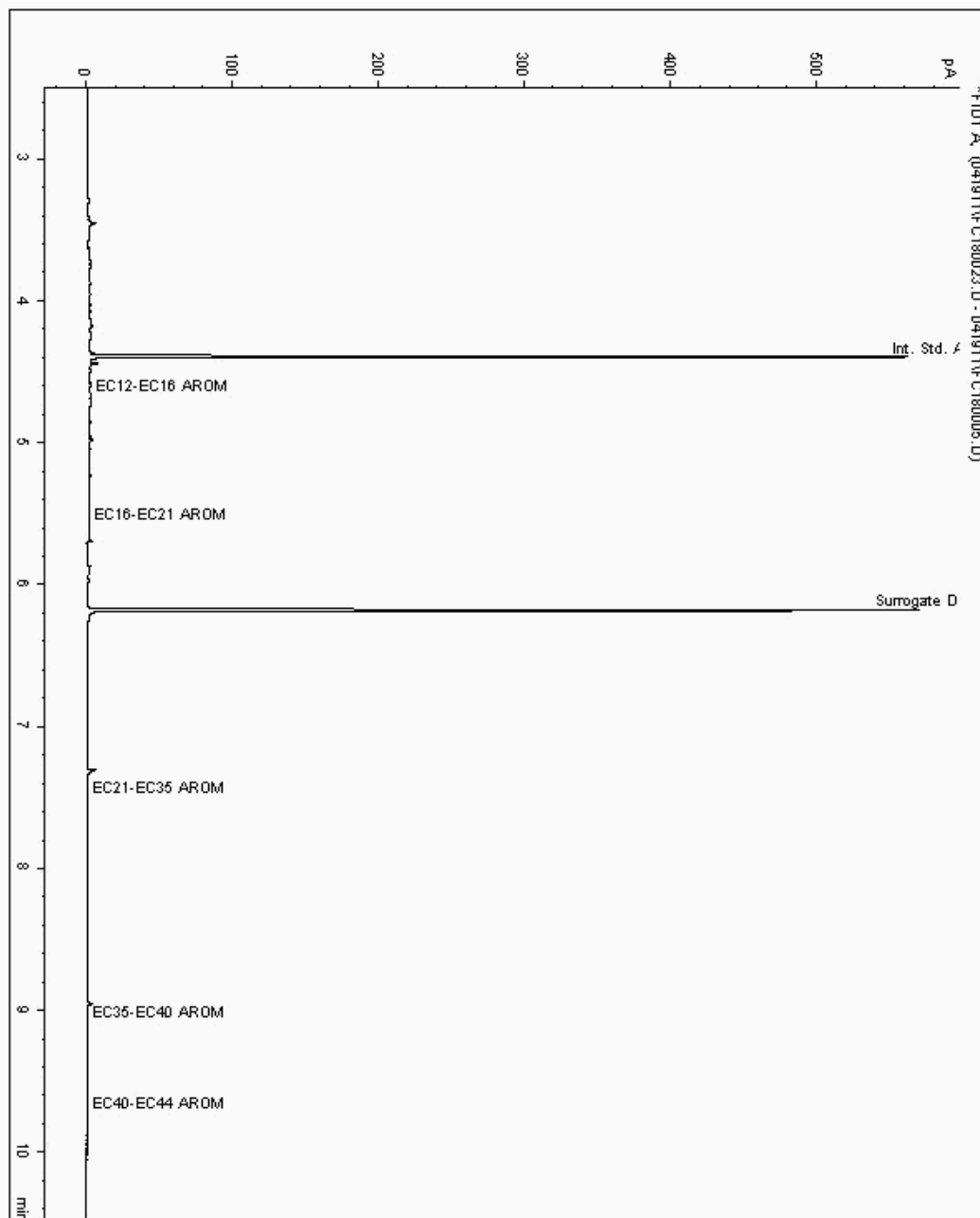
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309548
Sample ID : WSMW053

Depth :

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

Sample Identity: 3352399-3309548
Date Acquired : 20/04/11 11:22:14 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

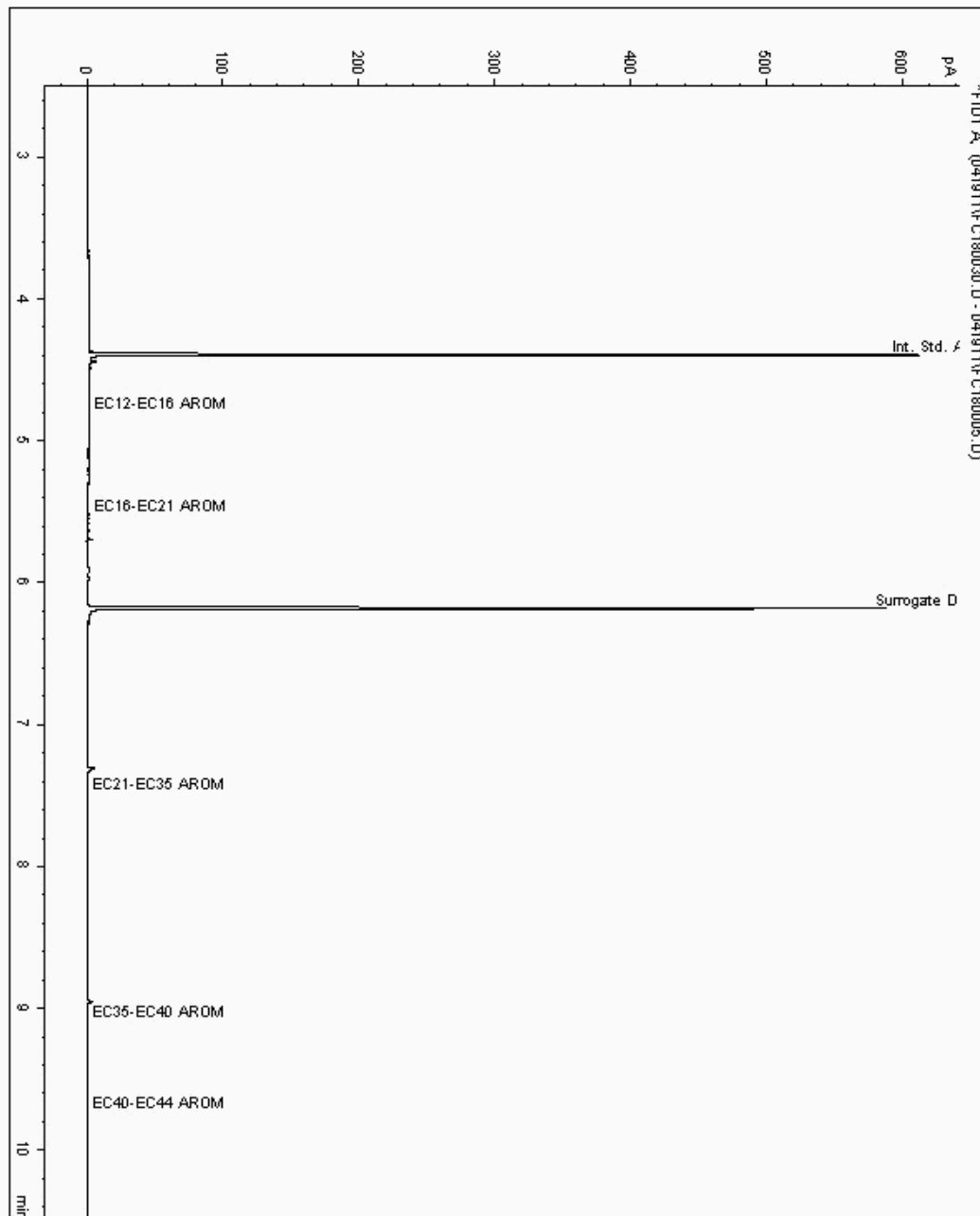
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3309561
Sample ID : WSTP121

Depth :

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

Sample Identity: 3352355-3309561
Date Acquired : 20/04/11 13:32:19 PM
Units : ppb
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

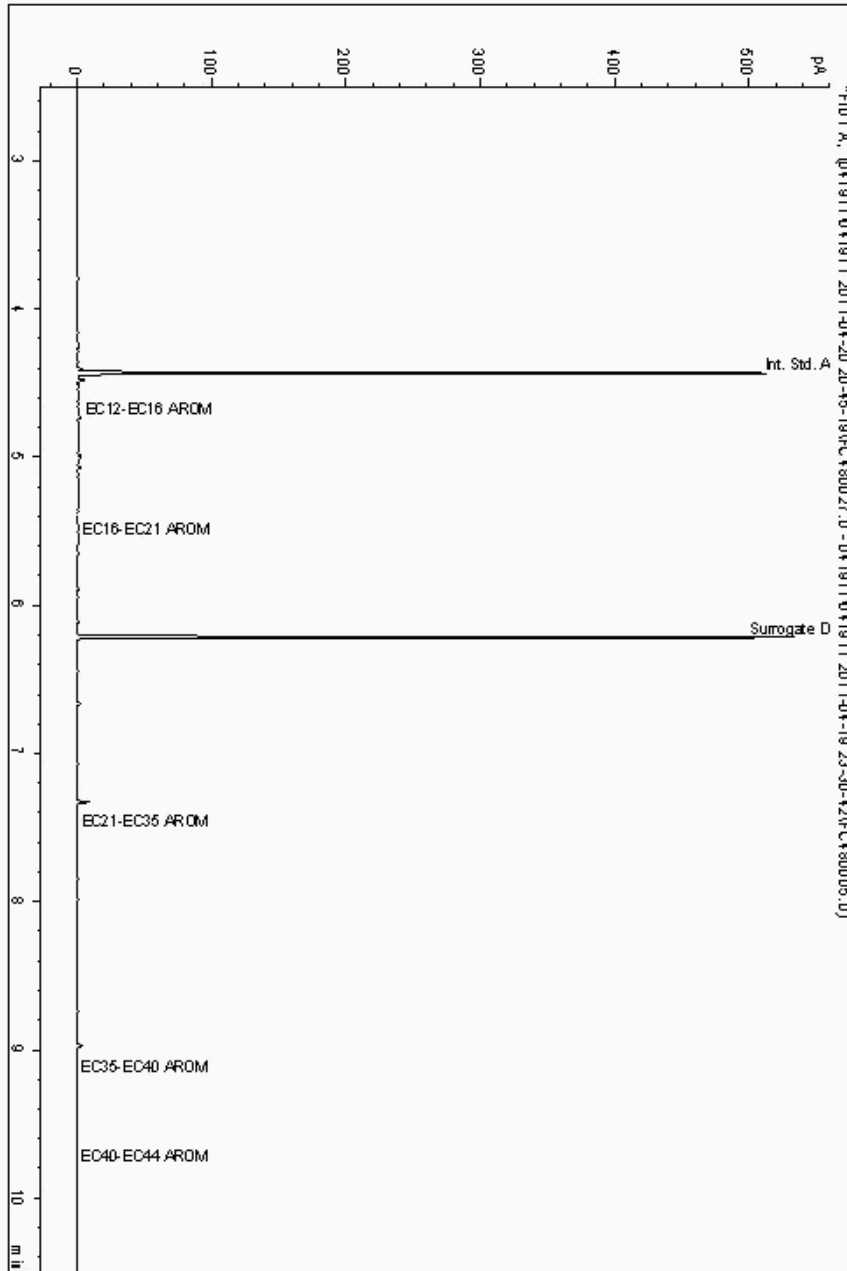
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3310710
Sample ID : TA1/1

Depth :

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

Sample Identity: 3352311-3310710
Date Acquired : 20/04/11 21:12:26
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

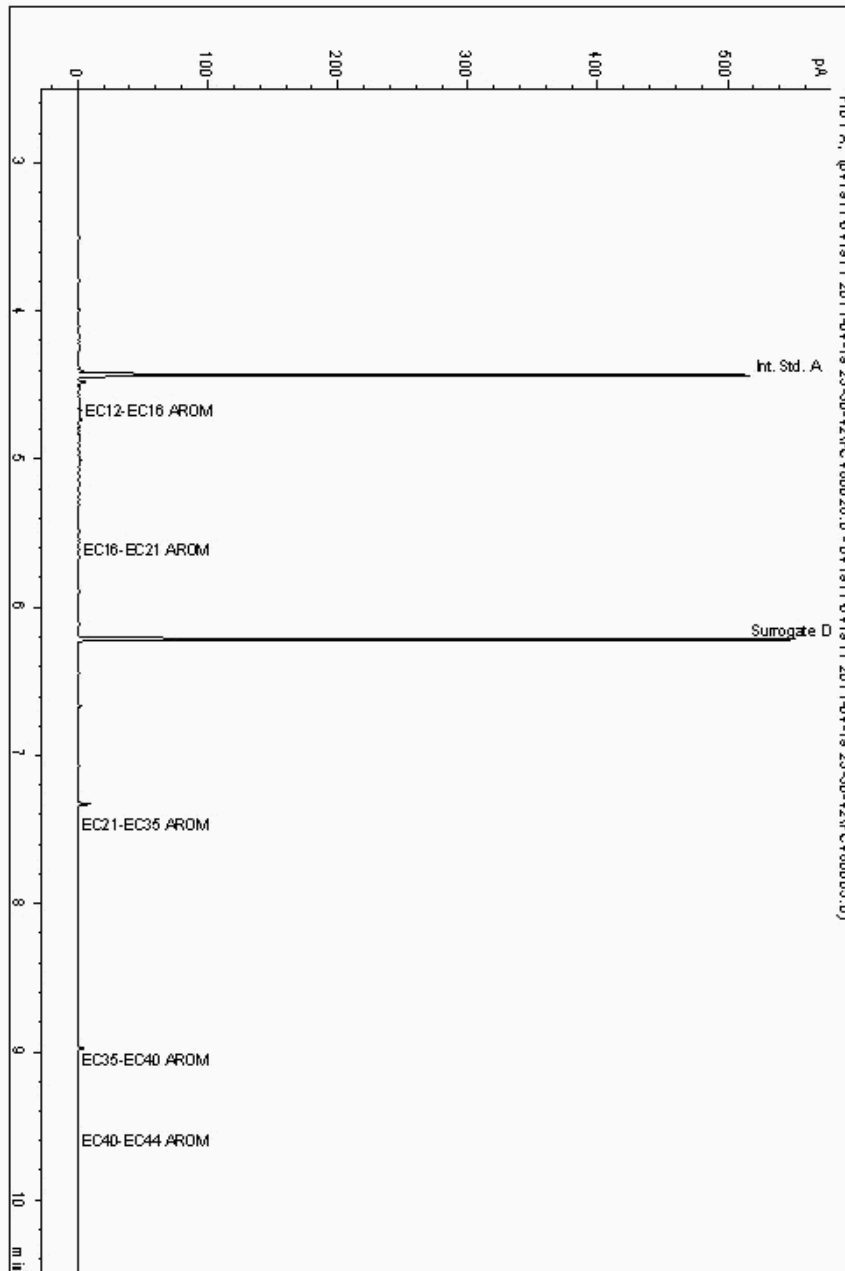
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3310727
Sample ID : WSMW058

Depth :

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

Sample Identity: 3352322-3310727
Date Acquired : 20/04/11 07:13:05
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

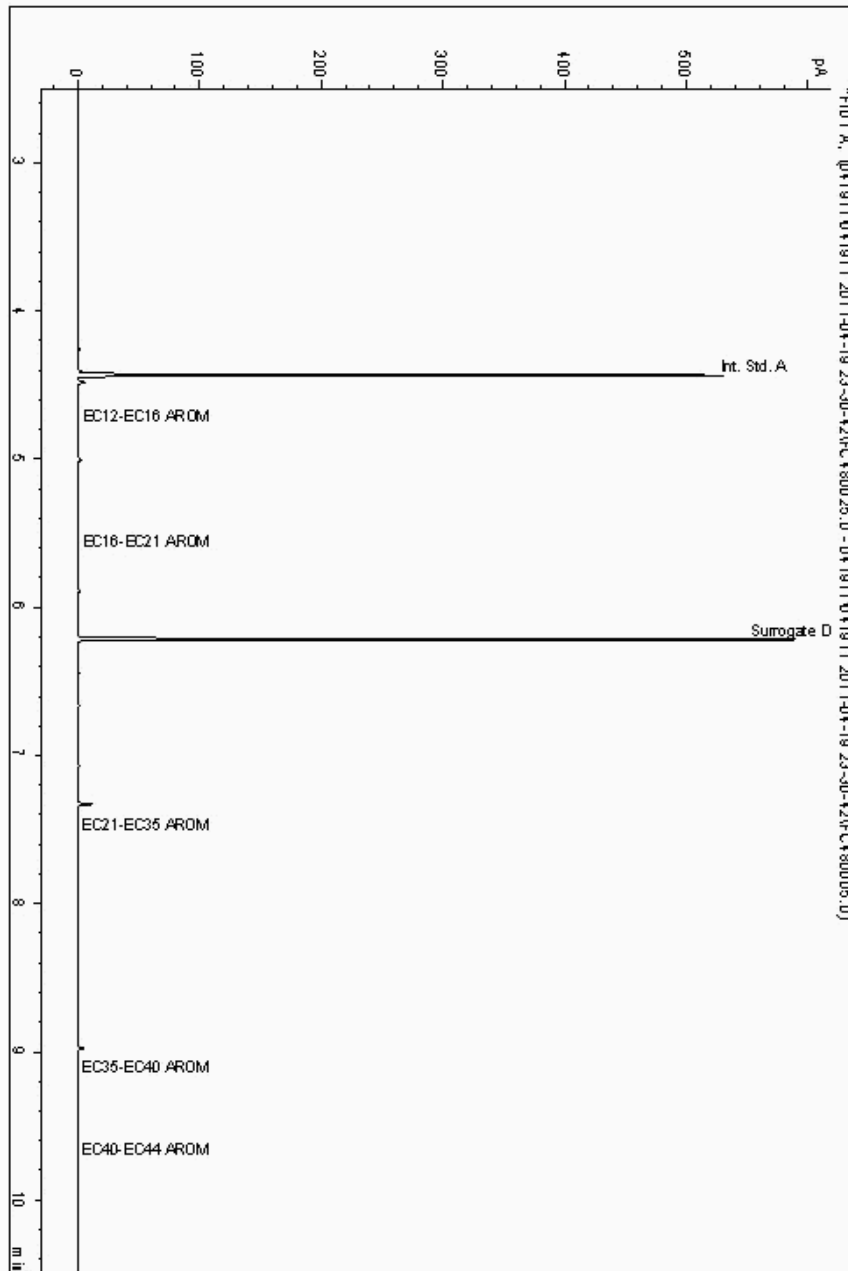
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3310737
Sample ID : UNK2

Depth :

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

Sample Identity: 3352366-3310737
Date Acquired : 20/04/11 06:54:51
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

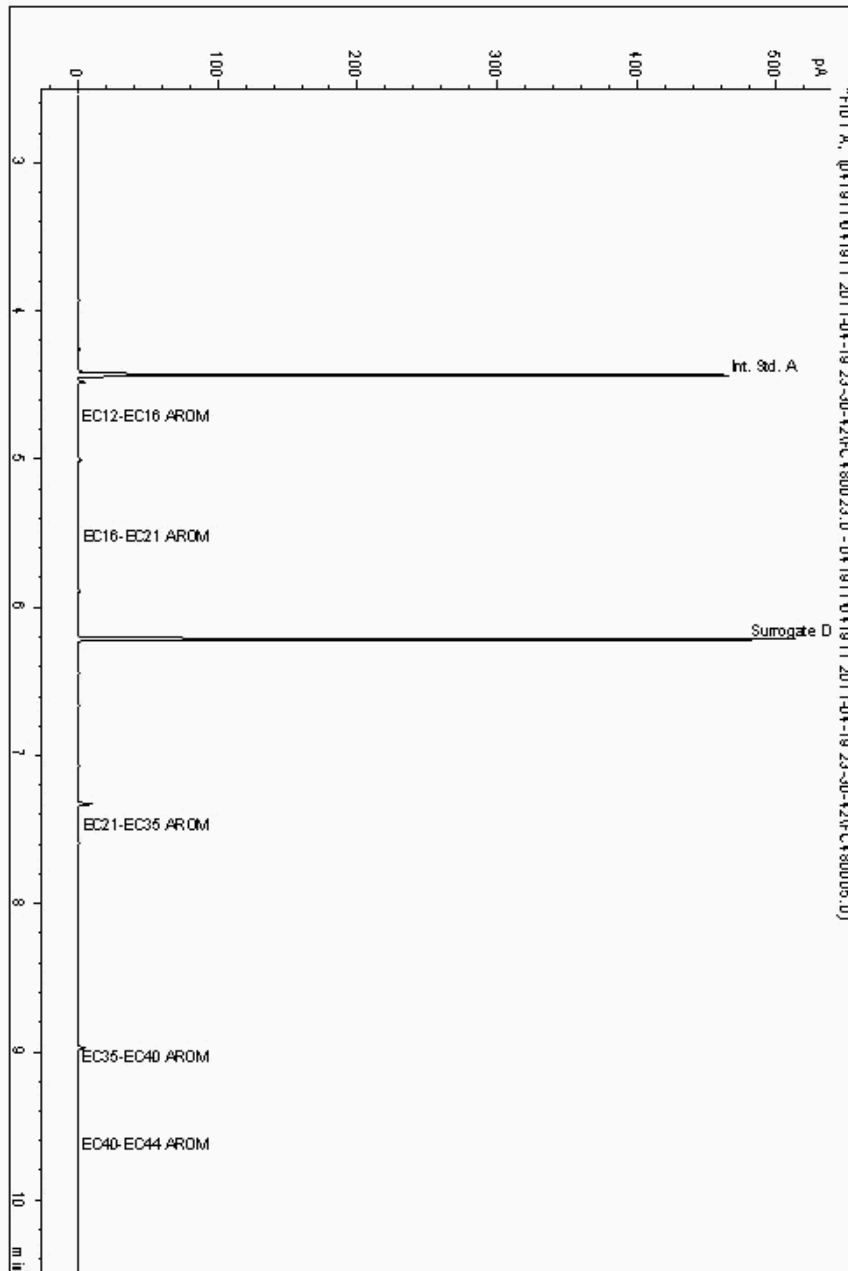
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3310747
Sample ID : WSMW034

Depth :

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

Sample Identity: 3352278-3310747
Date Acquired : 20/04/11 06:18:17
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

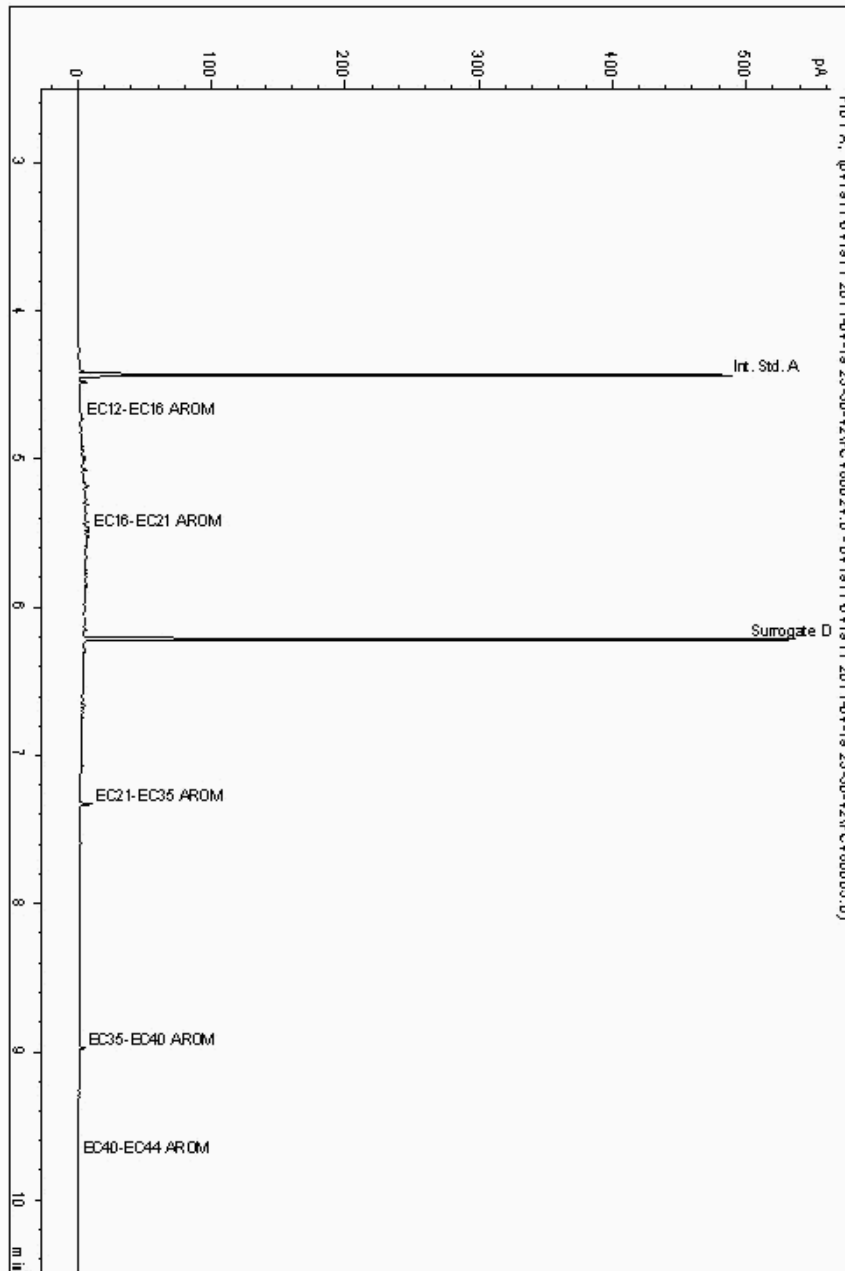
Analysis: EPH CWG (Aromatic) Aqueous GC (W)

Sample No : 3310759
Sample ID : WSMW056

Depth :

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

Sample Identity: 3352300-3310759
Date Acquired : 20/04/11 06:36:28
Units :
Dilution :
CF : 1
Multiplier : 0.008





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

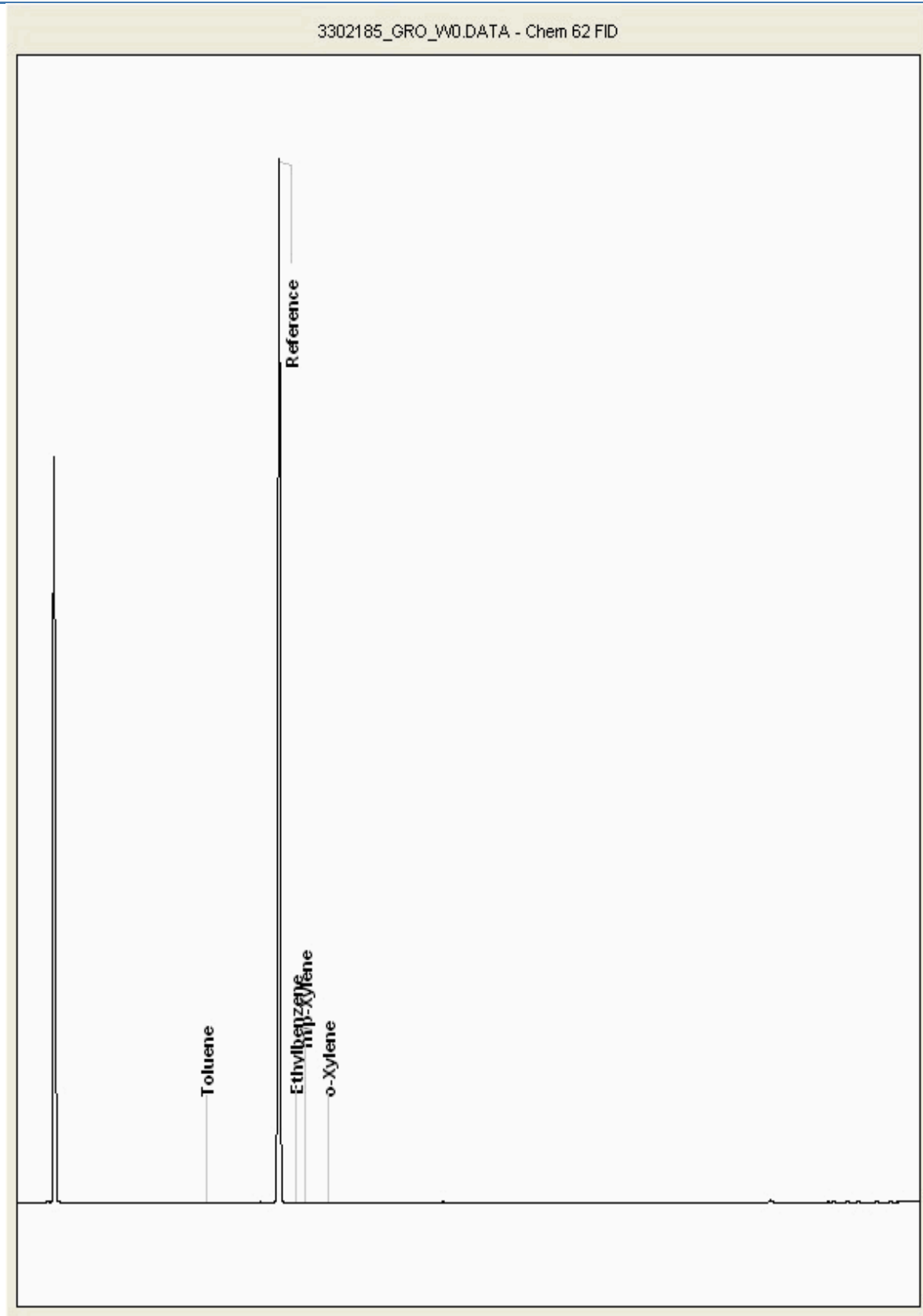
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302185
Sample ID : WSMW031

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

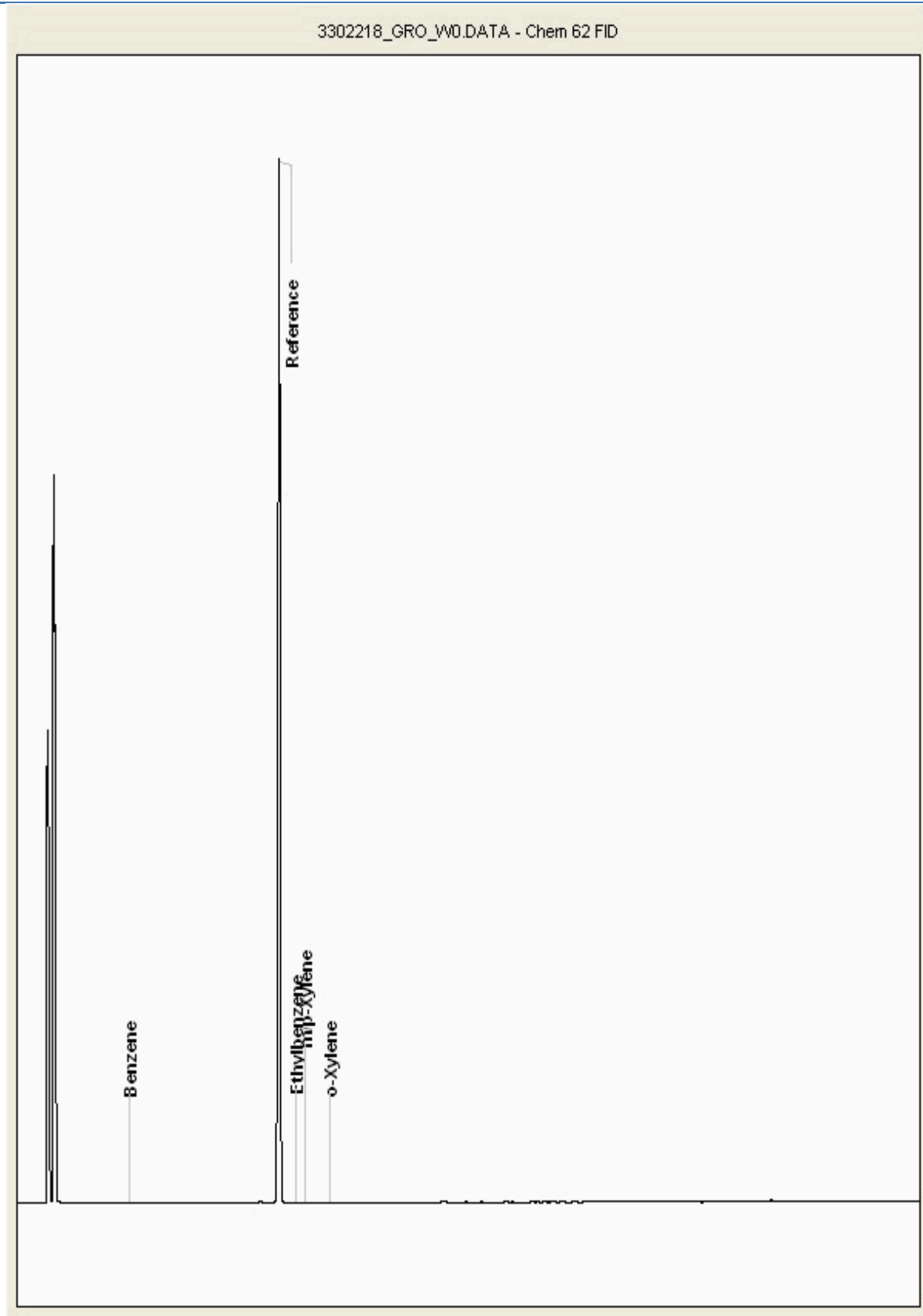
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302218
Sample ID : UNK2

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

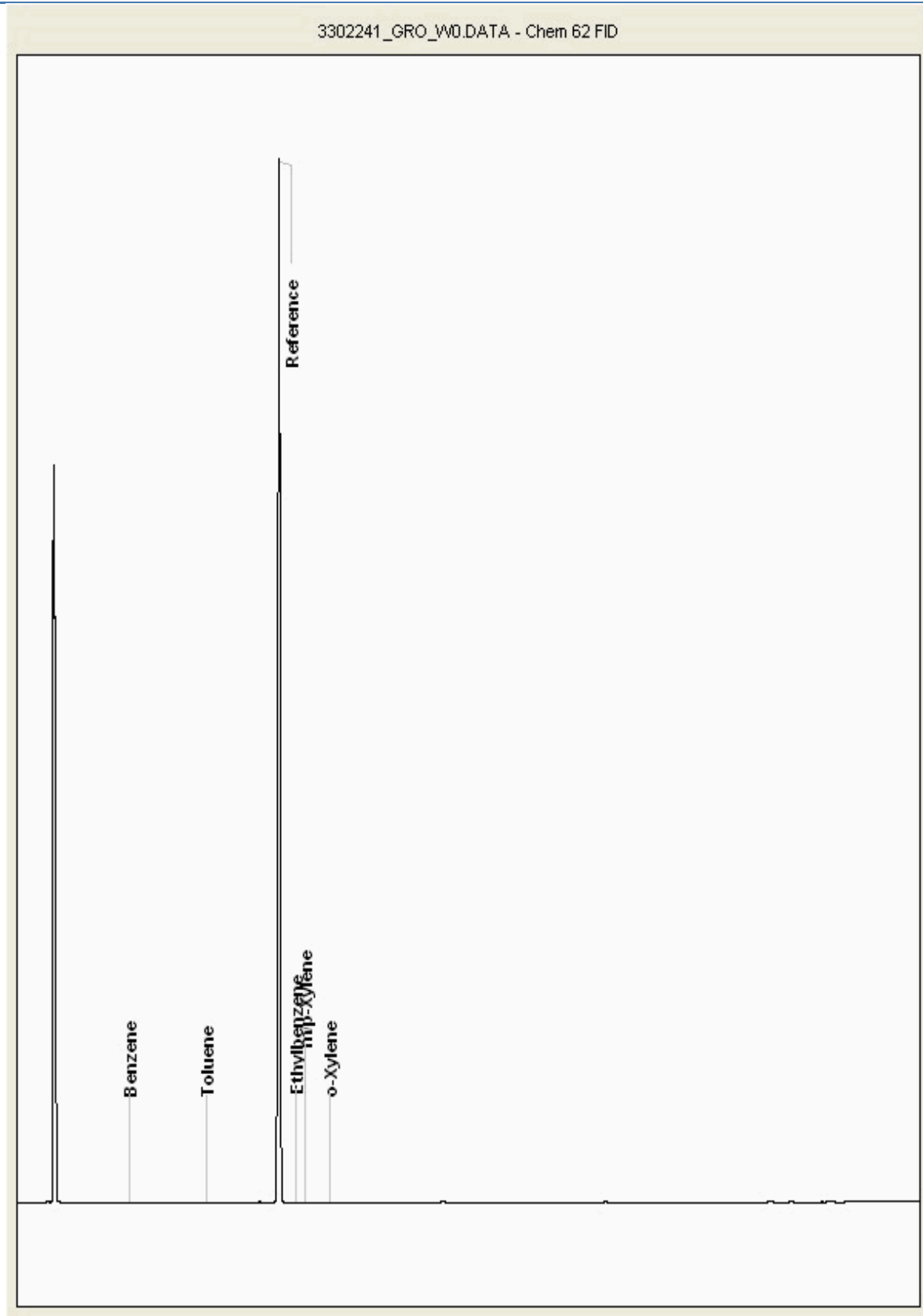
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302241
Sample ID : WSTP121

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

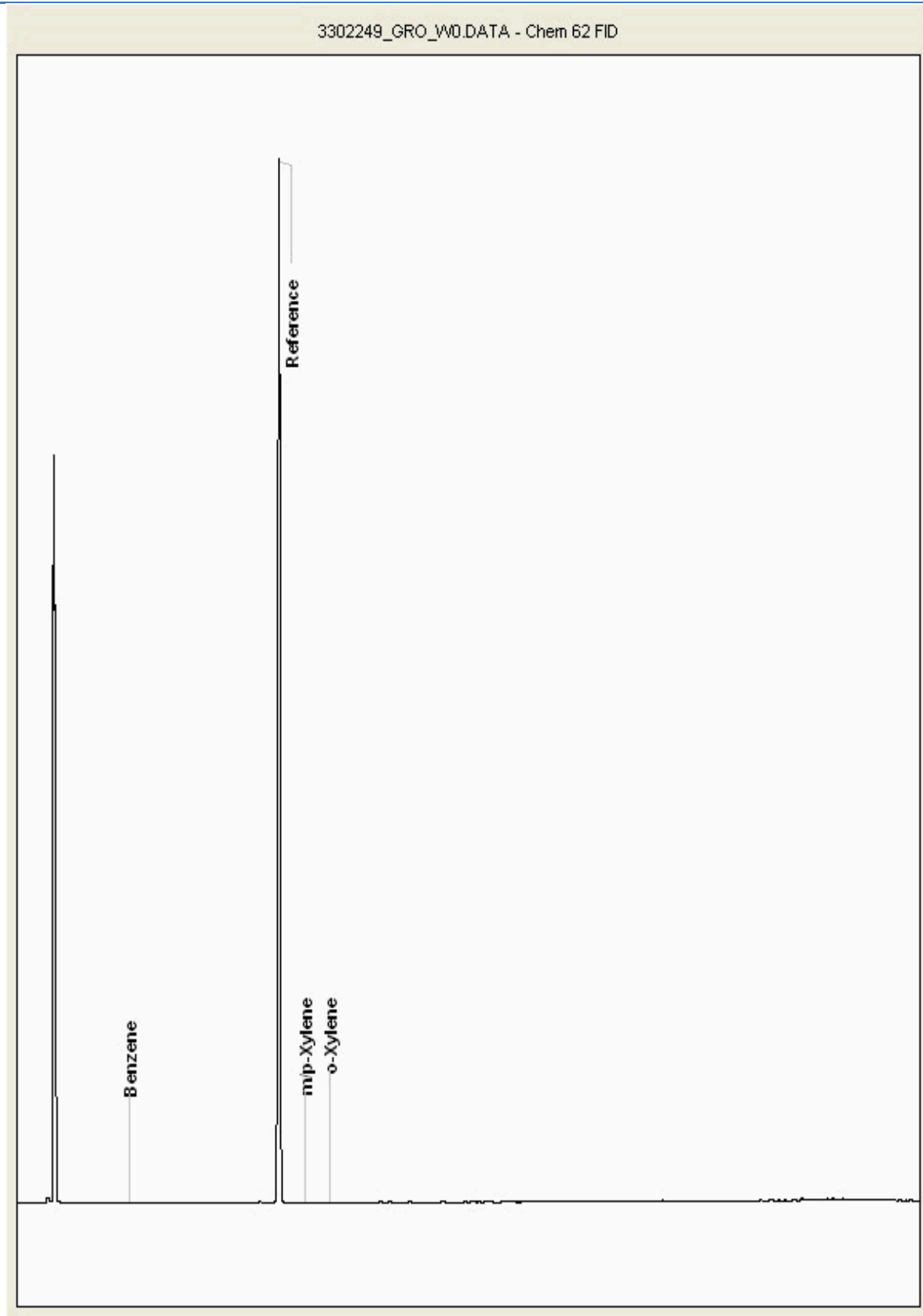
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302249
Sample ID : WSMW056

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

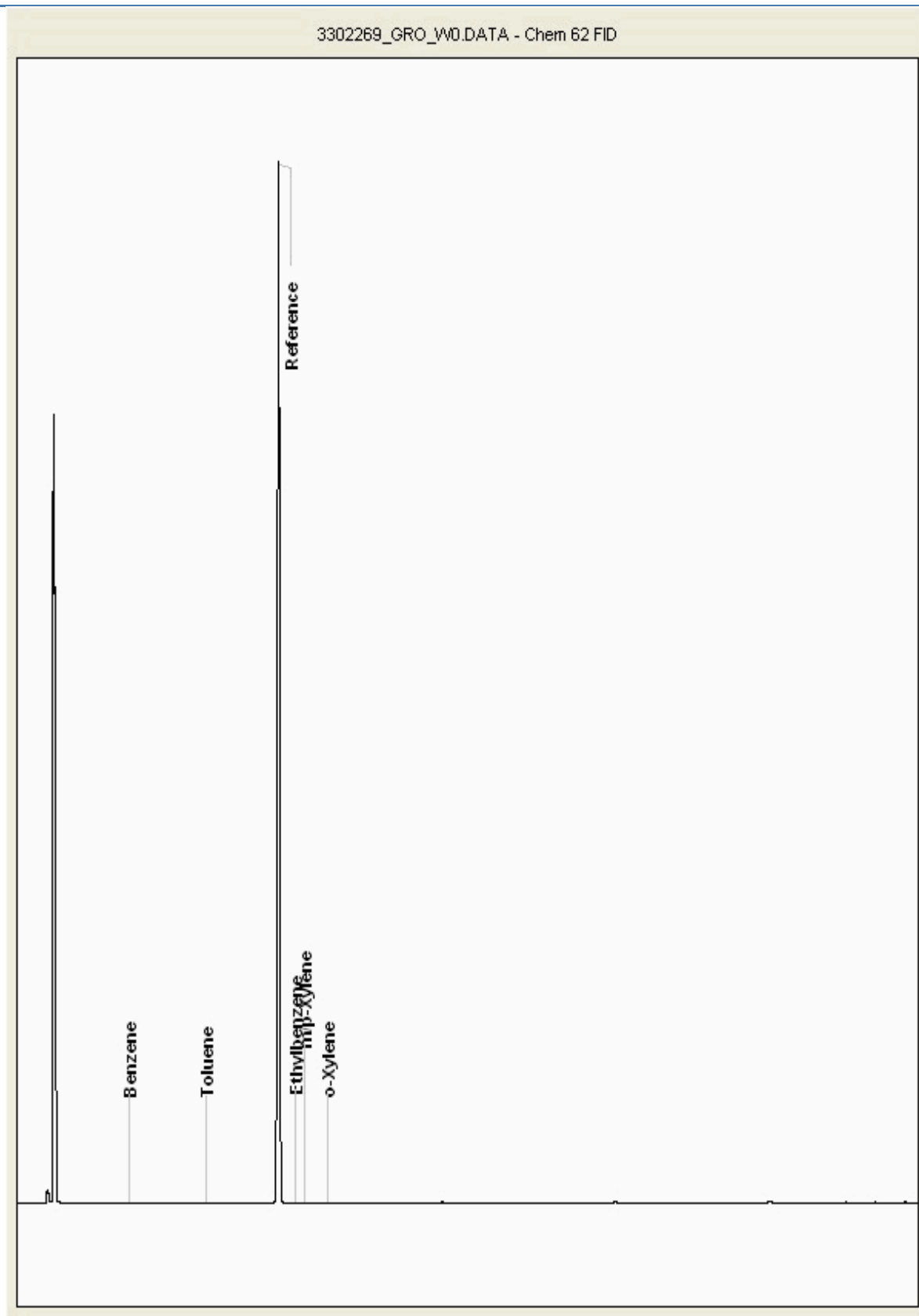
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302269
Sample ID : WSMW034

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

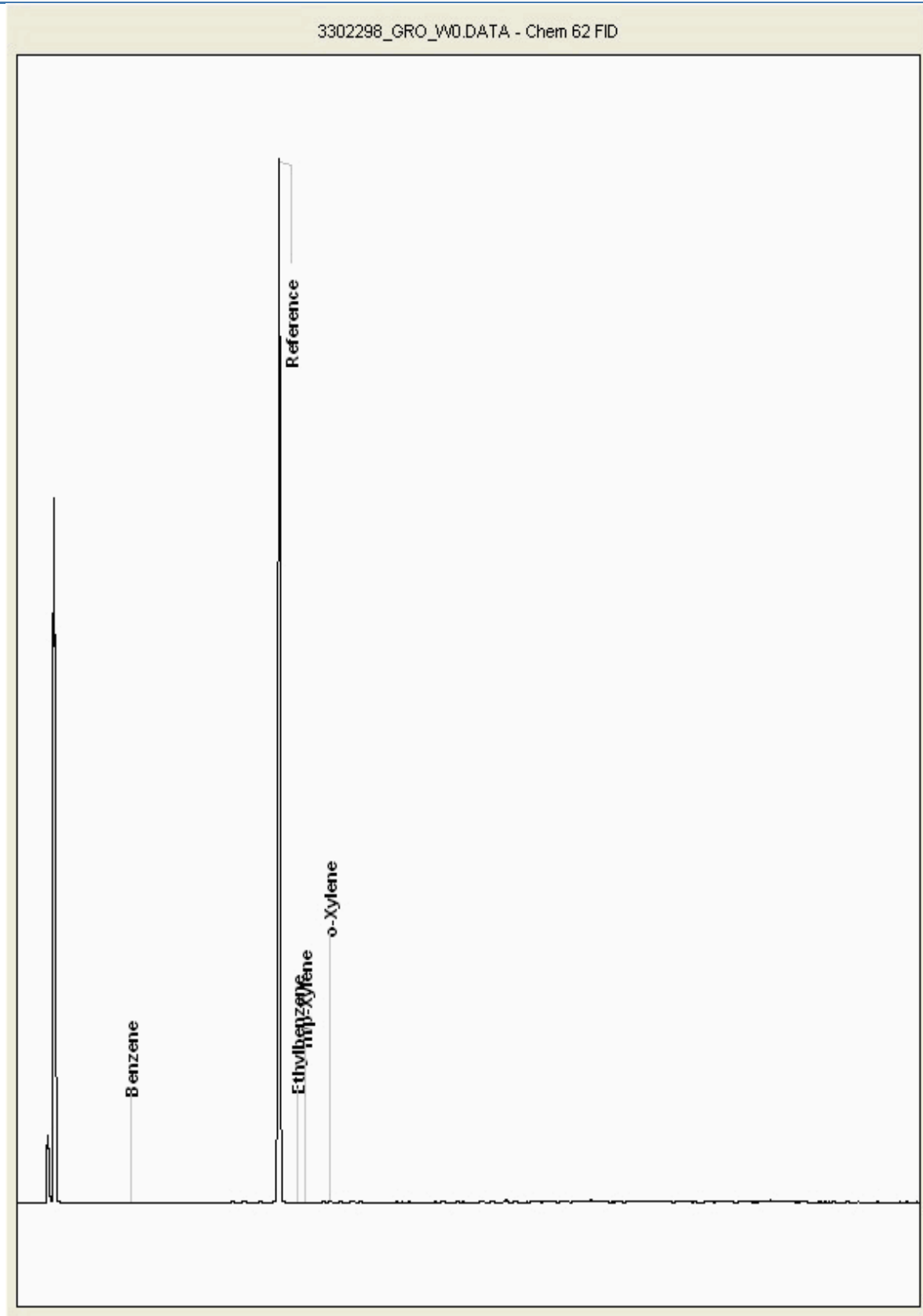
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302298
Sample ID : TA1/2

Depth :





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

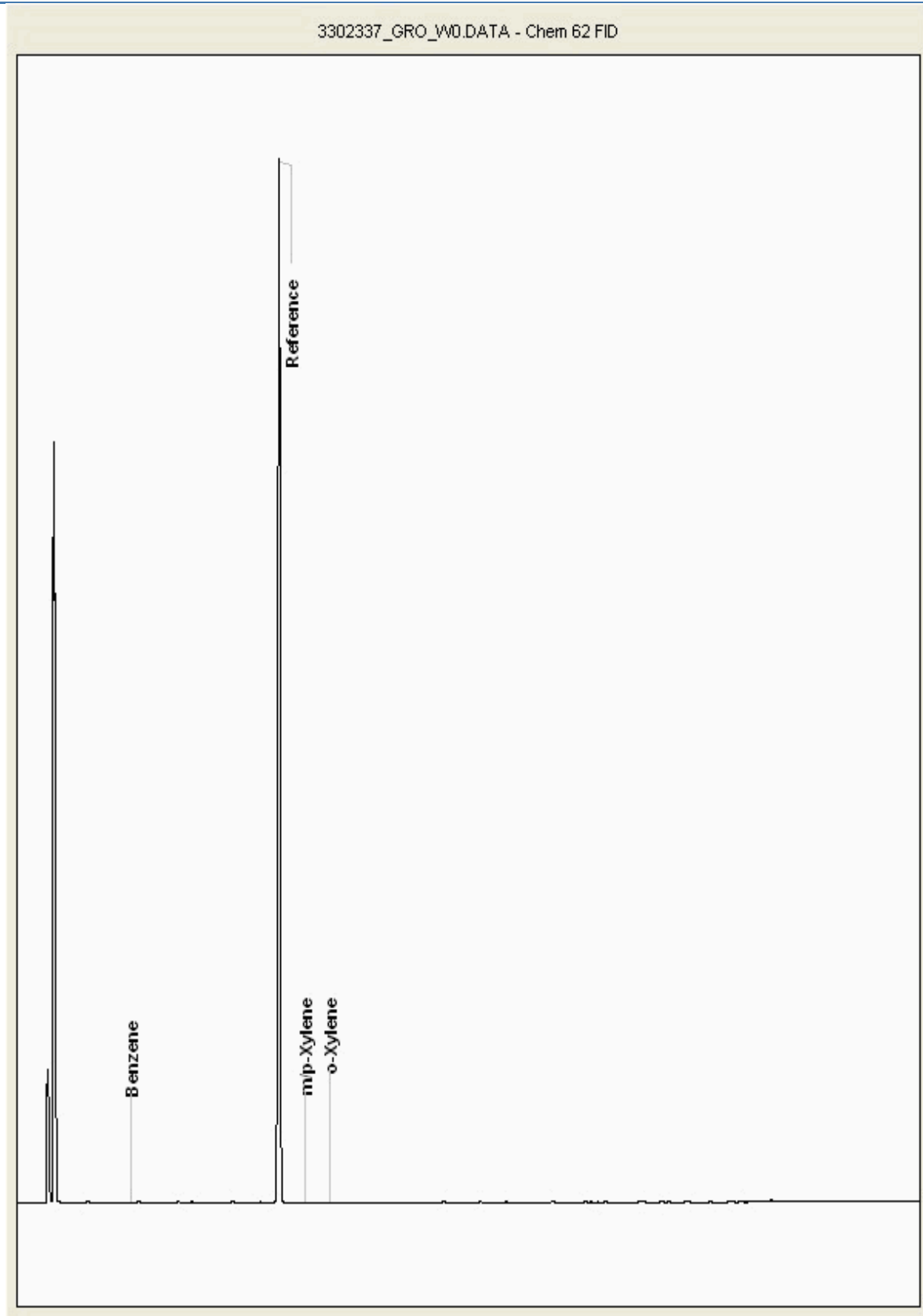
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302337
Sample ID : TA1/1

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

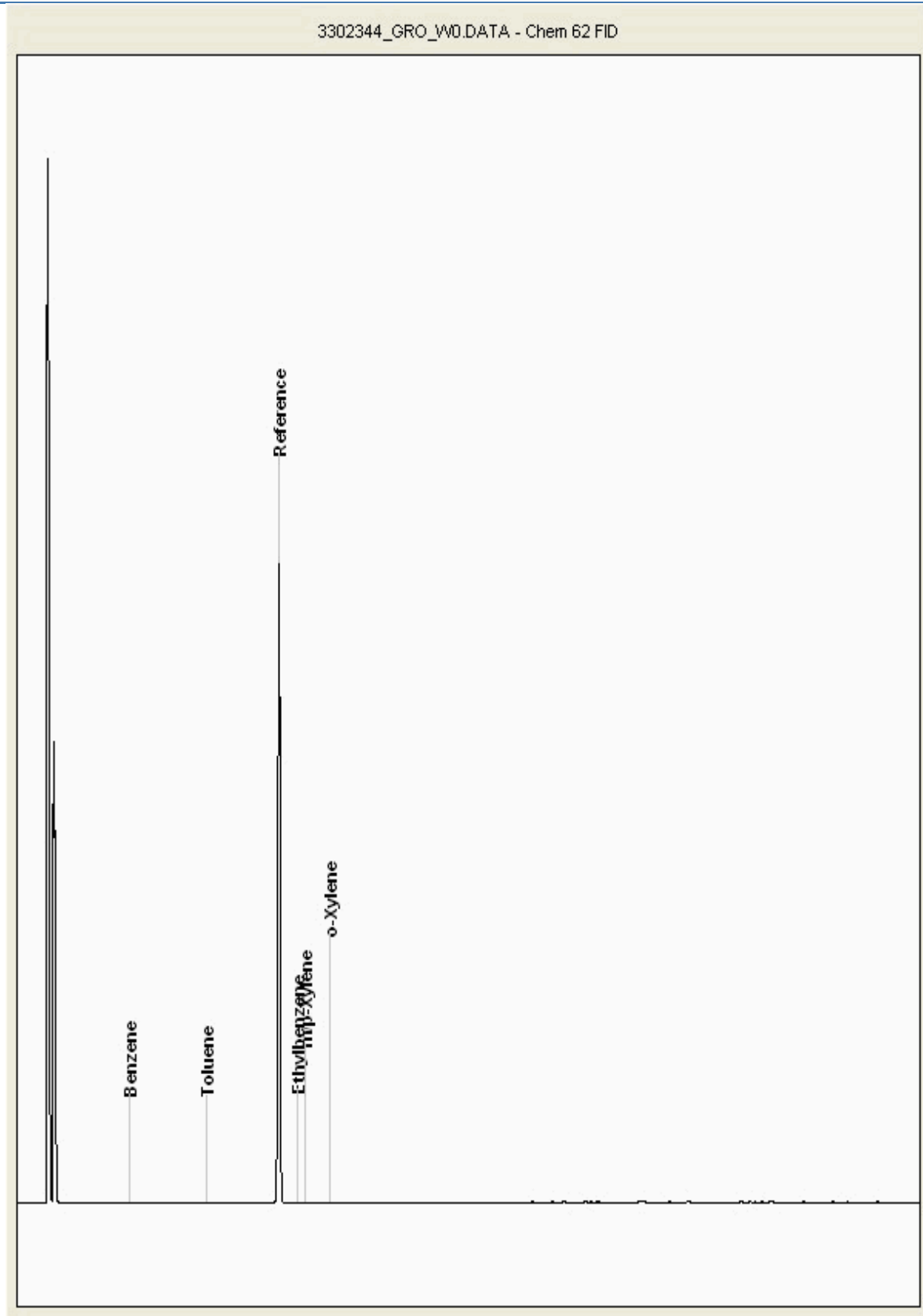
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302344
Sample ID : P1AF014

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

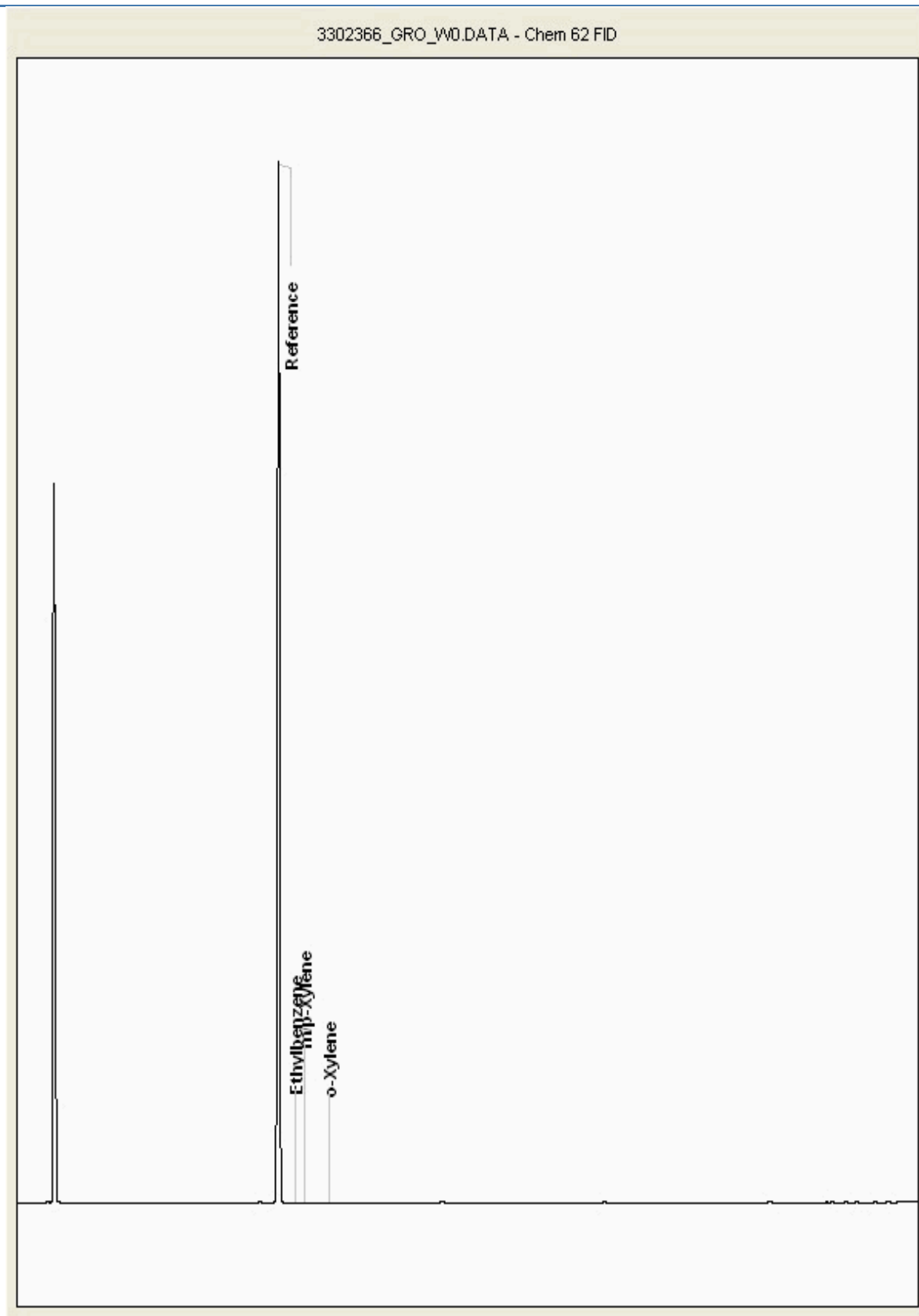
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302366
Sample ID : WSMW052

Depth :





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

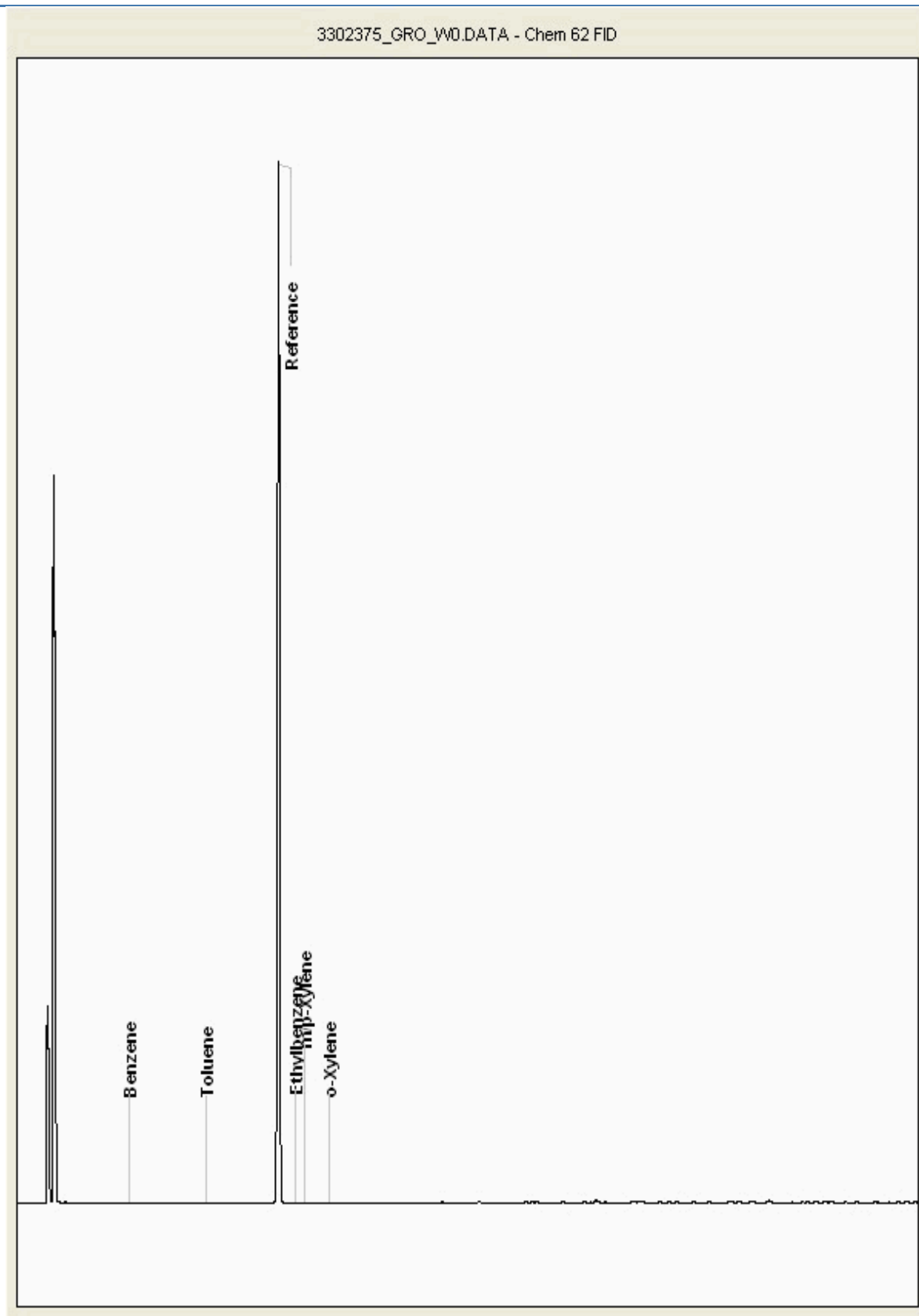
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302375
Sample ID : WSMW053

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

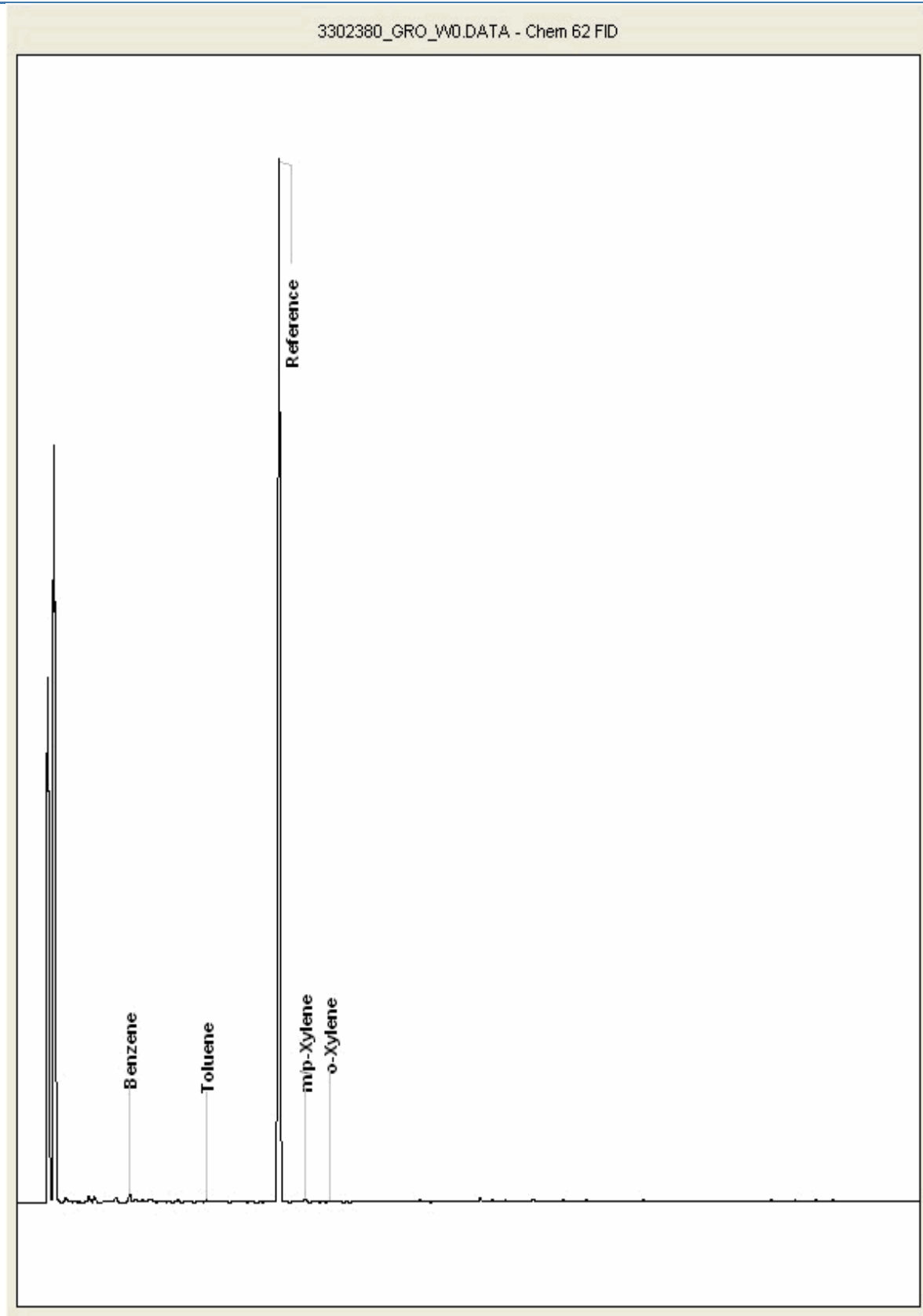
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302380
Sample ID : MSMW149

Depth :





SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

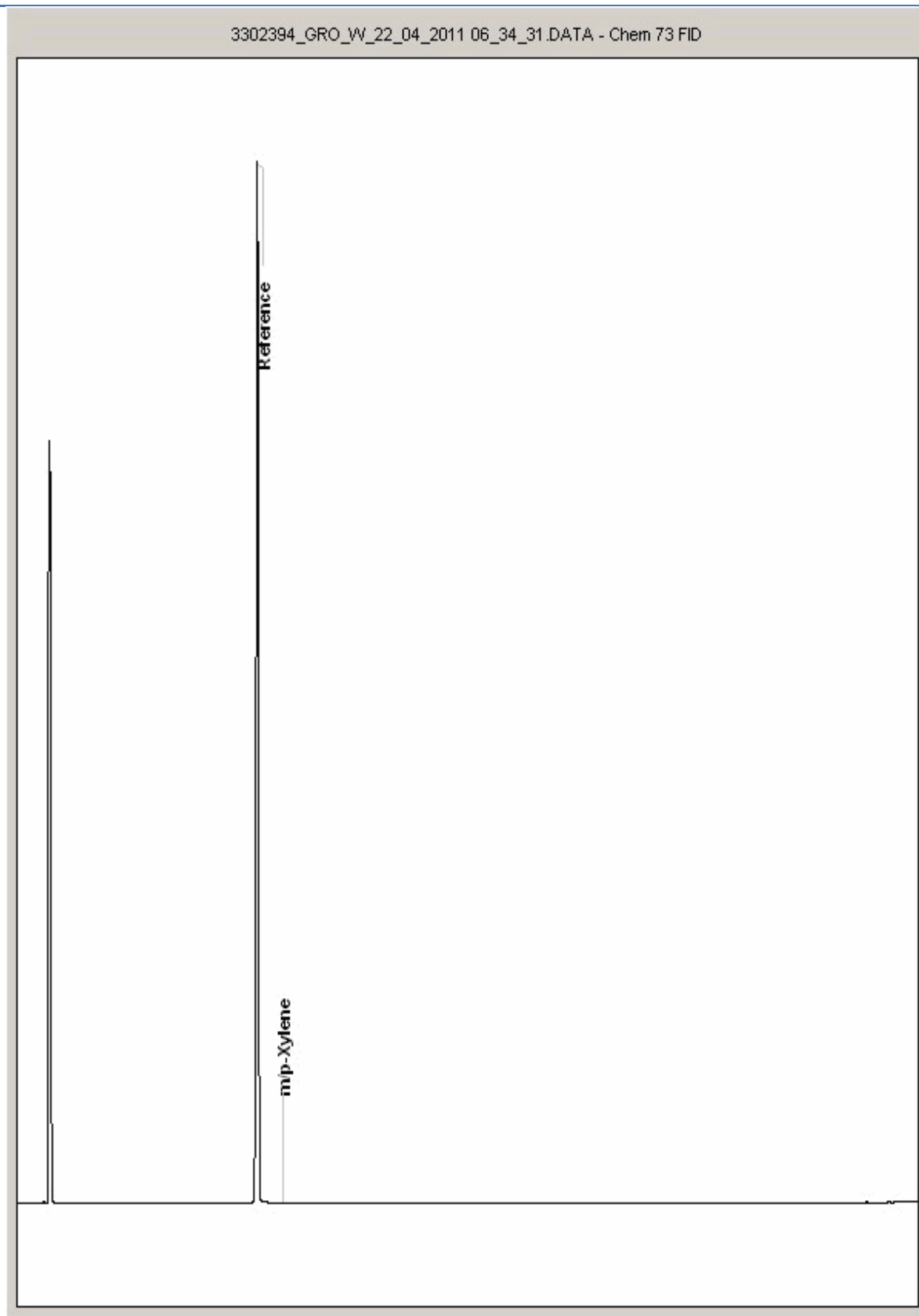
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302394
Sample ID : P1AF017

Depth :





CERTIFICATE OF ANALYSIS

SDG: 110415-23
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

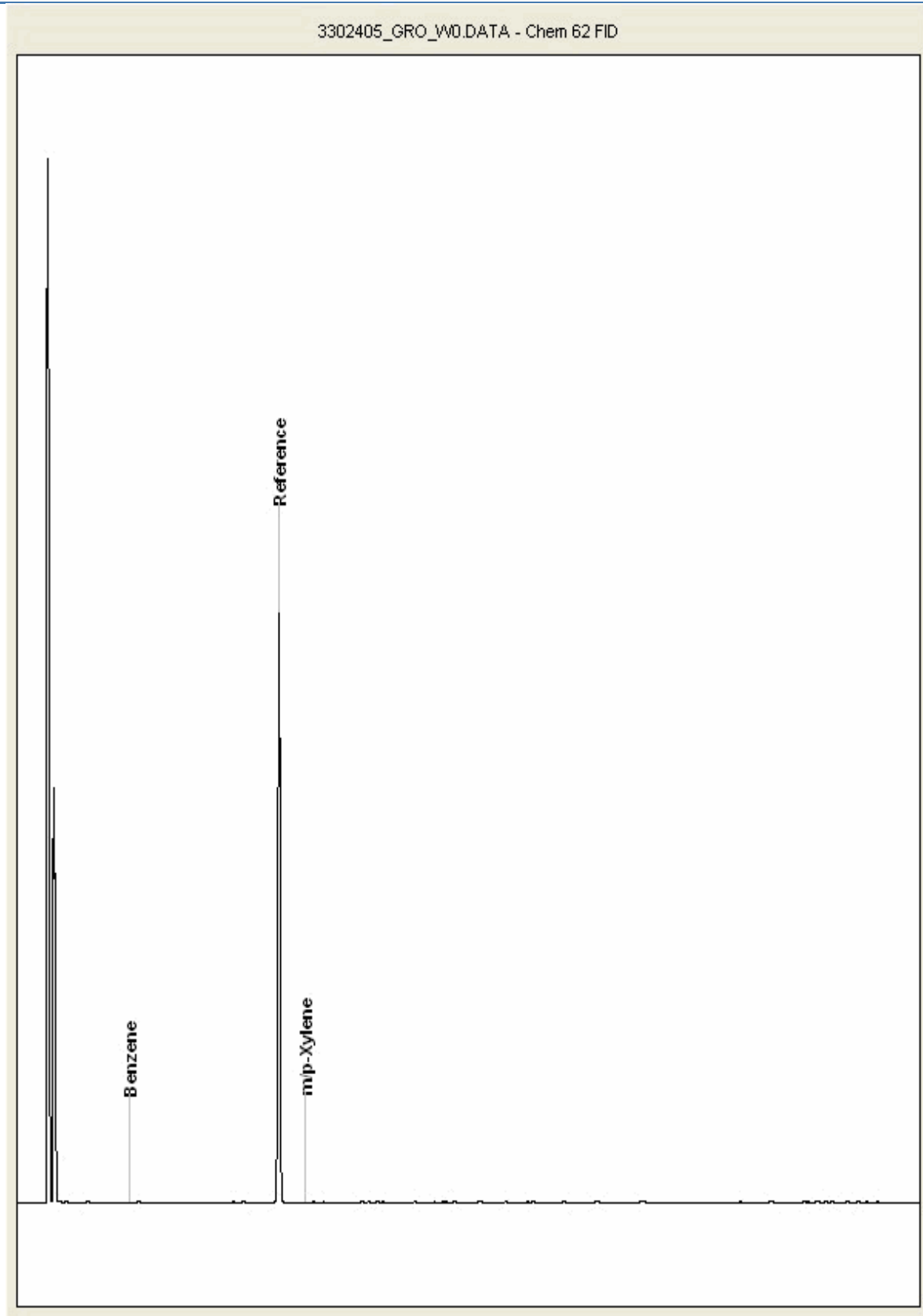
Order Number: CD0113
Report Number: 126458
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (W)

Sample No : 3302405
Sample ID : WSMW058

Depth :





SDG:	110415-23	Location:	Coed Darcy Urban Village	Order Number:	CD0113
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	126458
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	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 only is 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 VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLSBY GCMS	VET	DOM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (MINOIL)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH CWG BY GC	D&C	HEXANEACETONE	END OVEREND	GC FID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40(C8-C40) EZ FLASH	VET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE ORGANIC COMPOUNDS	VET	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)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLSMS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (R)	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 HSG 264.

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

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

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. **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.
13. **Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
14. 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).
15. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
16. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
17. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
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 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.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKEN SVOC	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM/EA	SOLID PHASE EXTRACTION	GC MS
TRIAZINE HERBS	DCM/EA	SOLID PHASE EXTRACTION	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
SAPONIFIABLE	TCE	LIQUID/LIQUID EXTRACTION	HPLC
UNSAAPONIFIABLE	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	DCM	LIQUID/LIQUID EXTRACTION	EZ FLASH

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

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.

<u>Asbestos Type</u>	<u>Common Name</u>
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date: 16 August 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110805-27
Your Reference: First 300 Water Samples 2011
Location: Coed Darcy Urban Village
Report No: 145254

This report has been revised and directly supersedes 145099 in its entirety.

We received 17 samples on Friday August 05, 2011 and 17 of these samples were scheduled for analysis which was completed on Tuesday August 16, 2011. 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:	110805-27	Location:	Coed Darcy Urban Village	Order Number:	CD0154
Job:	H_ATKINS_LDC-112	Customer:	Atkins Global Ltd	Report Number:	145254
Client Reference:	First 300 Water Samples 2011	Attention:	Alex Mann	Superseded Report:	145099

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
4037731	CASUMP 1			04/08/2011
4037732	CASUMP 2			04/08/2011
4037733	CASUMP 3			04/08/2011
4037739	D1AF013			03/08/2011
4037738	MSMW07 S2			04/08/2011
4037734	MSMW070 D			04/08/2011
4037735	MSMW135			04/08/2011
4037736	MSMW147			03/08/2011
4037744	P1AF008			03/08/2011
4037740	P1AF014			03/08/2011
4037741	P1AF017			03/08/2011
4037742	P1BH004			04/08/2011
4037743	P1BH005			04/08/2011
4037745	P1BH021			04/08/2011
4037746	WSMW031			03/08/2011
4037747	WSMW056			03/08/2011
4037748	WSTP121			03/08/2011

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



SDG: 110805-27
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0154
Report Number: 145254
Superseded Report: 145099

LIQUID Results Legend X Test N No Determination Possible	Lab Sample No(s)																		
	Customer Sample Reference																		
	AGS Reference																		
	Depth (m)																		
	Container		4037741	4037740	4037739	4037742	4037736	4037735	4037738	4037734	4037733	4037732	4037731						
			P1AF017	P1AF014	D1AF013	P1BH004	MSMW147	MSMW135	MSMW07 S2	MSMW070 D	CASUMP 3	CASUMP 2	CASUMP 1	Vial (ALE297)	11 green glass bottle	11 green glass bottle	11 green glass bottle	11 green glass bottle	11 green glass bottle
Alkalinity as CaCO3	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anions by ion Chromatography	All	NDPs: 0 Tests: 1																	
Anions by Kone (w)	All	NDPs: 0 Tests: 17												X	X	X	X	X	X
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 17												X	X	X	X	X	X
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 17												X	X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mercury Unfiltered	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH Value	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sulphide	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

SDG: 110805-27
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0154
Report Number: 145254
Superseded Report: 145099

LIQUID				
Results Legend				
X	Test			
N	No Determination Possible			
Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
4037741	P1AF017			Vial (ALE297)
4037740	P1AF014			1l plastic (ALE221)
4037739	D1AF013			1l green glass bottle
4037742	P1BH004			Vial (ALE297)
4037736	MSMW147			1l green glass bottle
4037735	MSMW135			Vial (ALE297)
4037738	MSMW07 S2			1l plastic (ALE221)
4037734	MSMW070 D			HNO3 Filtered (ALE
4037733	CASUMP 3			1l green glass bottle
4037732	CASUMP 2			Via (ALE297)
4037731	CASUMP 1			HNO3 Filtered (ALE
				1l plastic (ALE221)
				1l green glass bottle
				Vial (ALE297)
				HNO3 Filtered (ALE
				1l plastic (ALE221)
				1l green glass bottle
				Via (ALE297)
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				1l plastic (ALE221)
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				Vial (ALE297)
				HNO3 Filtered (ALE



CERTIFICATE OF ANALYSIS

SDG: 110805-27
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0154
Report Number: 145254
Superseded Report: 145099

LIQUID

Results Legend



Test



No Determination Possible

LIQUID Results Legend	Lab Sample No(s)		4037746	4037747	4037748	4037743	4037744	4037745
	Customer Sample Reference		WSMW031	WSMW056	WSTP121	P1BH005	P1AF008	P1BH021
	AGS Reference							
	Depth (m)							
	Container		1l green glass bottle Vial (ALE297) 1l plastic (ALE221)	1l green glass bottle Vial (ALE297) 1l plastic (ALE221)	1l green glass bottle Vial (ALE297) 1l plastic (ALE221)	1l green glass bottle Vial (ALE297) HNO3 Filtered (ALE 1l plastic (ALE221)	1l green glass bottle Vial (ALE297) 1l plastic (ALE221)	Vial (ALE297) HNO3 Filtered (ALE 1l plastic (ALE221)
Alkalinity as CaCO3	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Anions by Kone (w)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
GRO by GC-FID (W)	All	NDPs: 0 Tests: 17		X	X	X	X	X
Mercury Dissolved	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Mercury Unfiltered	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
pH Value	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Sulphide	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 17	X	X	X	X	X	X
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 17	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

SDG: 110805-27
Job: H_ATKINS_LDC-112
Client Reference: First 300 Water Samples 2011

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0154
Report Number: 145254
Superseded Report: 145099

LIQUID

Results Legend



Test

No Determination
Possible

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

TPH CWG (W)

All

NDPs: 0
Tests: 17

VOC MS (W)

All

NDPs: 0
Tests: 17

4037746

4037747

4037748

4037743

4037744

4037745

WSMW031

WSMW056

WSTP121

P1BH005

P1AF008

P1BH021

1l green glass bottle

1l plastic (ALE221)

1l plastic (ALE297)

1l green glass bottle

1l plastic (ALE221)

1l green glass bottle

1l plastic (ALE221)

1l green glass bottle

1l plastic (ALE221)

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