

[illegible]

Logged AW Checked AP		Start 24/09/2014 End 24/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.2m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 4.00 m A B C B →		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level (Thickness)	Legend	Backfill/ Instruments
1.00	ES 1		1 (MADE GROUND) Dark brown moderately stained black slightly clayey gravelly SILT with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone, brick and ceramics. Cobbles are subangular of sandstone and brick. Rare glass. Occasional roots and rootlets. (VO = 2,1) becoming (VO = 3,3) at 2.0m			(2.20)		
2.00	ES 2					2.20		
3.00	ES 3		2 Yellow slightly clayey gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,1)			(0.80)		
4.00	ES 4		3 Greyish brown frequently stained black slightly clayey gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 3,3)			(1.20)		
			EXPLORATORY HOLE ENDS AT 4.20 m			4.20		

Scale 1:25

Trial Pit Log



Logged SK Checked AP		Start 07/07/2014 End 07/07/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.70m Terminated due to collapse and water ingress.	Dimensions and Orientation Width 1.80 m Length 3.00 m A B C D 100 (Deg)		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
		*	1 (MADE GROUND) Sandy angular to subrounded, fine to coarse GRAVEL of siltstone, sandstone and occasional brick. (VO = 0,0)	(1.80)			
			2 (MADE GROUND) Grey occasionally stained dark grey clayey sandy angular to subrounded, fine to coarse GRAVEL of siltstone, brick and sandstone. Faint hydrocarbon odour. (VO = 1,1)	1.80 (0.30) 2.10		1	
			3 Greyish brown slightly clayey sandy subangular to subrounded, fine to coarse GRAVEL of siltstone and sandstone with medium cobble content. Cobbles are subangular to subrounded siltstone and sandstone. (VO = 0,0)	(1.60)			
			EXPLORATORY HOLE ENDS AT 3.70 m	3.70			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m) 0.00 3.70 No samples obtained.		Stability Complete collapse below 1.10m Shoring None Weather Overcast, slight		
1 2.10 Rose to 2.05 m after 5 minutes. Slight oily sheen on surface					Trial Pit TPE1271 Sheet 1 of 1		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4806/05/2015 12:54:50			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				



Trial Pit Log



Logged SK Checked AP		Start 07/07/2014 End 07/07/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.00m Terminated at maximum excavator reach.	Dimensions and Orientation Width 1.80 m Length 6.00 m A B C D 030 (Deg)		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments	
0.30	ES 1		1 (MADE GROUND) Greyish brown and dark grey SAND and GRAVEL with low cobble content. Sand is fine to coarse of ash. Gravel is angular to subrounded, fine to coarse of slag, sandstone and cinder. Cobbles are subrounded of sandstone. (VO = 0,0)	0.50 (0.50)			
1.30	ES 2		2 Soft brown occasionally mottled orange sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine to coarse of sandstone and siltstone. Sand is fine to coarse. Faint hydrocarbon odour. (VO = 0,1)	(2.00)			
2.60	ES 3		3 Brownish grey slightly clayey sandy subangular to subrounded GRAVEL of sandstone and siltstone with low cobble content. Cobbles are subrounded of sandstone. Faint hydrocarbon odour. (VO = 0,1)	2.50 (1.70)			
3.60	ES 4						
4.60	ES 5		4 Orangish brown fine to medium grained SANDSTONE. Recovered as angular tabular fine to coarse gravel with high cobble content. Cobbles are angular to subangular tabular. (VO = 0,0)	4.20 (0.80)			
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5.00 m				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4806/05/2015 12:55:00 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE1272 Sheet 1 of 1	

Trial Pit Log



Logged SK Checked AP		Start 07/07/2014 End 07/07/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.20m Unable to progress beyond 4.20m	Dimensions and Orientation Width 1.20 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
1.00	ES 1		1 (MADE GROUND) Brown and orangish brown slightly clayey gravelly fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and siltstone (VO = 0,0).			(1.70)		
2.00	ES 2		2 Grey silty sandy subangular to subrounded, fine to coarse GRAVEL of siltstone and sandstone with low cobble content. Cobbles are subangular to subrounded of sandstone. Distinct hydrocarbon odour. (VO = 0,2)			1.70		
3.00	ES 3					(2.50)		
4.00	ES 4							
			EXPLORATORY HOLE ENDS AT 4.20 m			4.20		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE1273 Sheet 1 of 1		



Trial Pit Log



Logged PL Checked AP		Start 24/06/2014 End 24/06/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.10m Terminated on Bedrock		Dimensions and Orientation Width 1.60 m Length 3.00 m A B C 260 (Deg)		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (MADE GROUND) Soft brown gravelly sandy CLAY with low cobble content. Gravel is subrounded to rounded, fine to coarse of sandstone and concrete. Cobbles are rounded of sandstone. (VO = 0,0)			(0.80)		
1.50	ES 2		2 Soft grey and dark grey slightly gravelly sandy CLAY with low cobble content. Gravel is rounded, fine to coarse of sandstone. Cobbles are rounded of sandstone. (VO = 2,3)			0.80 (0.90)		
2.50	ES 3		3 Brown and grey clayey sandy subangular to subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Cobbles are subangular of sandstone. (VO = 1,2)			1.70 (2.40)		
3.50	ES 4							
			EXPLORATORY HOLE ENDS AT 4.10 m			4.10		
			4.10 m Sandstone Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4806/05/2015 12:55:55			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE1332A Sheet 1 of 1		

Trial Pit Log



Logged SK Checked AP		Start 09/07/2014 End 09/07/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.00m Terminated at maximum excavator reach	Dimensions and Orientation Width 1.50 m Length 4.30 m 	Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata	Depth, Level, (Thickness), Legend, Backfill/ Instruments		
Depth	Type & No.	Date Records	Description	Depth, Level, (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (MADE GROUND) Greyish brown and grey sandy angular to subrounded, fine to coarse GRAVEL of sandstone, siltstone, brick and concrete with low to medium cobble content. Cobbles are subangular to subrounded of sandstone and concrete. (VO = 0,0)	(0.60)		
1.00	ES 2		2 (MADE GROUND) Brown gravelly fine to coarse SAND. Gravel is angular to subrounded, fine to coarse of sandstone and siltstone and occasional brick. (VO = 0,0)	(0.60)		
1.50	ES 3		3 Soft brownish grey sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine to coarse sandstone and siltstone. Faint hydrocarbon odour. (VO = 0,1)	(0.90)		
2.50	ES 4		4 Brownish grey slightly clayey sandy subangular to subrounded GRAVEL of sandstone and siltstone with low cobble content. Cobbles are subrounded of sandstone. Faint hydrocarbon odour. (VO = 0,1)	(1.70)		
3.50	ES 5					
4.50	ES 6		5 Stiff to firm grey sandy gravelly CLAY with low cobble content. Cobbles are subangular to subrounded of sandstone. (VO = 0,1)	(1.20)		
			EXPLORATORY HOLE ENDS AT 5.00 m			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Sunny spells, dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4806/05/2015 12:56:03			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE1333 Sheet 1 of 1		

Trial Pit Log

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Trial Pit Log



Logged AJ Checked AP		Start 01/04/2015 End 01/04/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.00m. Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Brown subangular to subrounded tabular COBBLES of sandstone with much sandy subangular to subrounded, fine to coarse gravel of sandstone. Sand is fine to coarse. (VO = 0,0)	(0.30)			
			2 Light brown gravelly fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	0.30			
1.50	ES 2						
2.50	ES 3			(4.70)			
3.50	ES 4						
4.50	ES 5						
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5.00 m				
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 4.80 Slow ingress.			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Dry	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4814/04/2015 11:39:24			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE1335 Sheet 1 of 1	

Trial Pit Log



Logged AW Checked AP		Start 23/09/2014 End 23/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.3m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 4.00 m A B C D B →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 (MADE GROUND) Dark greyish black silty sandy subangular to subrounded, fine to coarse GRAVEL of sandstone, brick and concrete with medium cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone, brick and concrete. (VO = 2,0)	0.50				
1.50	ES 2		2 (MADE GROUND) Brown slightly clayey sandy subangular to subrounded, fine to coarse GRAVEL of sandstone and brick with high cobble content and low boulder content. Sand is fine to coarse. Cobbles and boulders are subangular to subrounded of sandstone and brick. (VO = 1,0)	(1.80)				
			EXPLORATORY HOLE ENDS AT 2.30 m	2.30				
			2.30 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/02/2015 10:54:26			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE1336 Sheet 1 of 1		

Trial Pit Log

Logged DD Checked AP		Start 26/09/2014 End 26/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL-2.10m. Terminated on bedrock	Dimensions and Orientation Width 1.50 m Length 3.50 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Firm locally stiff dark greyish brown slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of siltstone and brick. Cobbles are subangular to subrounded of siltstone and brick. (VO=4,2)	(0.80)		
			2 Firm light greyish brown sandy gravelly CLAY with high cobble content and high boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of siltstone and sandstone. Cobbles are subrounded to rounded of sandstone. (VO=2,4)	0.80		
2.10	ES 2		EXPLORATORY HOLE ENDS AT 2.10 m 2.10 m Bedrock	2.10		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/02/2015 10:54:30			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE1337 Sheet 1 of 1		

Logged NK Checked AP		Start 12/02/2015 End 12/02/2015		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.1m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 2.00 m A B C D ➔		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft light brown sandy gravelly SILT with medium cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. (VO = 0,0)					0.40		
1.50	ES 2		2 Very soft grey mottled black sandy gravelly SILT with medium cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 3,3)					(2.70)		
2.50	ES 3									
			EXPLORATORY HOLE ENDS AT 3.10 m					3.10		
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)					Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited					Trial Pit TPE1338 Sheet 1 of 1		
(c) ESG www.esg.co.uk 426.4809/03/2015 15:56:57 Scale 1:25										

Trial Pit Log

Logged AW Checked AP	Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata	Depth, Level/ (Thickness) Legend Backfill/ Instruments		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (MADE GROUND) Dark brown sandy clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and occasional brick and slag with medium cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and brick and slag. Moderate roots and rootlets. (VO = 1,1)	(0.80)		
			2 Soft to firm grey moderate stained black sandy CLAY. Sand is fine. (VO = 4,3)	0.80 (0.70)		
1.50	ES 2			1.50		
2.50	ES 3		3 Greyish yellow gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subrounded, fine to coarse of sandstone. Cobbles are subrounded of sandstone. (VO = 1,2)	(1.70)		
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20		
			3.20 m Bedrock			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE825 Sheet 1 of 1		

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Scale 1:25 (c) ESG www.esg.co.uk 426.4806/05/2015 12:43:05 

Logged AJ Checked AP		Start 13/08/2014 End 13/08/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.40m. Terminated due to fire.		Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D ➔		Ground Level Coordinates National Grid Chainage	
Samples and Tests				Strata					
Depth	Type & No.	Date Records	Description				Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.30	ES 1		1 Soft brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent roots and rootlets. (VO = 0,0)				(0.60)		
1.00	ES 2		2 Soft orangish brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional black staining. (VO = 1,1)				0.60 (1.10)		
2.00	ES 3		3 Dark grey stained sandy cobbly subangular to subrounded, fine to coarse GRAVEL of sandstone with high cobble and low boulder content. Sand is fine to coarse. Cobbles and boulders are subangular to subrounded of sandstone. (VO = 3,4)				1.70 (0.70)		
			EXPLORATORY HOLE ENDS AT 2.40 m				2.40		
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)				Stability Stable Shoring None Weather Dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4806/05/2015 12.43.54 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				Trial Pit TPE910 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.1m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 (MADE GROUND) Firm grey gravelly sandy CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and occasional brick. Sand is fine to medium. Cobbles are subangular to subrounded of sandstone and brick. Occasional boulder sized pockets of dark brown fibrous peat. (VO = 1,1)	(1.40)		
1.50	ES 2		2 Greyish orange gravelly slightly clayey, fine to coarse SAND with low cobble content. Gravel is subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 1,1)	1.40 (0.70)		
			EXPLORATORY HOLE ENDS AT 2.10 m 2.10 m Bedrock	2.10		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4807/01/2015 16.04.08			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE922 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.3m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C ➔		Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
1.00	ES 1		1 Firm grey gravelly sandy CLAY with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to medium. Cobbles are subrounded of sandstone. (VO = 1,1)			(1.60)		
2.00	ES 2		2 Yellowish grey sandy clayey subrounded, fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse. Cobbles are subrounded of sandstone. (VO = 0,0)			1.60 (0.70)		
			EXPLORARY HOLE ENDS AT 2.30 m			2.30		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4807/01/2015 16:04:10 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE923 Sheet 1 of 1		

Trial Pit Log

Logged SK/JC Checked AJon		Start 04/09/2014 End 04/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.80m Terminated due to contaminated water.	Dimensions and Orientation Width 1.40 m Length 3.80 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level, (Thickness), Legend, Backfill/ Instruments		
Depth	Type & No.	Date Records	Description	Depth, Level, (Thickness)	Legend	Backfill/ Instruments
0.20	ES 1	*	1 Soft dark greyish brown sandy slightly gravelly CLAY with frequent fibrous rootlets and roots. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Faint hydrocarbon odour. (VO = 0,1)	(0.30)		
0.50	ES 2		2 Soft to firm orangish brown sandy CLAY. Sand is fine to coarse. Faint hydrocarbon odour. (VO = 0,1)	(0.40)		
1.00	ES 3		3 Firm to stiff greyish brown mottled light grey occasionally stained grey sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. Strong hydrocarbon odour. (VO = 1,3)	(0.90)		
1.70	ES 4		4 Greyish brown frequently stained grey slightly silty SAND and GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Strong hydrocarbon odour. (VO = 2,3)	1.60 1.80		
			EXPLORATORY HOLE ENDS AT 1.80 m			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 1.80 Rose to 1.70 m after 10 minutes.			Depth Related Remarks * From to (m) 0.00 Water has thick oily sheen.	Stability Stable Shoring None Weather Sunny spells, slight		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4830/01/2015 13:44:31			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE927 Sheet 1 of 1		

Logged AW	Start 15/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.6m Terminated on bedrock.	Dimensions and Orientation Width 0.50 m Length 4.00 m	Ground Level Coordinates National Grid Chainage		
Checked AP	End 15/09/2014		A B C D E			
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.30	ES 1		1 (MADE GROUND) Soft to firm light grey occasionally orange silty slightly sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subrounded, fine to coarse of sandstone and concrete. Cobbles are subangular of sandstone and concrete. Frequent roots, rootlets and occasional wood fragments. (VO = 1,1)	(0.40)		
1.00	ES 2		2 Bluish grey gravelly slightly clayey, fine to coarse SAND with medium cobble content and low boulder content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Boulders are subangular to subrounded occasionally tabular of sandstone. (VO = 3,3)	(1.20)		
			EXPLORATORY HOLE ENDS AT 1.60 m	1.60		

Trial Pit Log



Logged AW Checked AP		Start 12/09/2014 End 12/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.6m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.30	ES 1		1 Orangish brown slightly gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent roots and rootlets and moderate wood fragments. (VO = 0,0)			0.30		
1.00	ES 2		2 Bluish grey moderately mottled orange with occasional black staining slightly silty sandy subangular to subrounded, fine to coarse GRAVEL of sandstone with medium cobble content and low boulder content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. Boulders are subangular tabular of sandstone. (VO = 3,3)			(1.30)		
			EXPLORATORY HOLE ENDS AT 1.60 m			1.60		
			1.60 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4821/01/2015 15:47:42			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE999 Sheet 1 of 1		

Appendix C. Laboratory Analytical Results – Ground Investigation

Monitor Phase 58

Excavate

Commercial
Deep 1%

				Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc		
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP 1667	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.86	997	11.9	20.5	892	4070	9.02	mg/kg	48.1	15800	
IP 1668	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.01	94	2.43	22.3	322	1010	0.843	46.6	<1	29.8	2640
IP 1669	0.30-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.22	46	1.98	20.7	116	288	1.93	38.7	<1	22.2	412
IP 1670	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.36	47.3	1.61	14	143	150	<0.14	30.7	<1	19.5	798
IP 1735	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.47	7.87	0.352	8.72	11	19.3	<0.14	19.5	<1	9.55	68.1
IP 1737	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	1.49	6.48	14.6	1.5	17.4	47.8	24.3	<0.14	13	<1	22.7	164
IP 1754	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.32	83.4	2.21	16.2	193	135	<0.14	37.4	1.72	29.6	703
IP 1754	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.97	266	2.48	15.7	403	2050	1.17	28.7	<1	24.4	3400
IP 1754	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.53	9.71	0.22	11.6	17.6	21	<0.14	23.5	<1	13.3	83.5
IP 1756	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.8	240	2.93	16.8	352	2130	<0.14	44.6	<1	33	2740
IP 1756	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.12	46.9	1.24	14.4	84.7	117	<0.14	24.1	1.04	22.5	276
IP 1756	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.94	10.5	0.393	11	21.2	41.3	<0.14	21.4	<1	13.6	109
IP 1758	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.15	199	3.28	16.9	345	2750	0.875	30.8	<1	26.2	5000
IP 1760	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	5.98	65.7	2.4	14.4	133	79.7	<0.14	24.1	<1	21.1	246
IP 1760	1.00-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	6.23	21.7	0.795	13.6	44.6	26.1	<0.14	14.9	<1	21	120
IP 1823	2.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.11	13.2	0.45	12.3	30.7	72.3	<0.14	26.8	<1	15.1	189
IP 1826	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	8.08	327	17.7	16.3	690	13300	<0.14	65.2	1.24	32.7	29900
IP 1826	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.33	10.5	0.14	12.6	13.6	13	<0.14	22.1	<1	14.6	52.9
IP 1835	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	8.14	29.7	1.18	21.1	73.1	207	0.198	29.7	<1	20.8	480
IP 1835	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.38	8.06	0.394	12	14.1	20.8	<0.14	16.3	<1	12.4	73.6
IP 1836	1.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.39	6.71	0.398	11.3	11.6	18.2	<0.14	15.5	<1	13.3	65.8
IP 1840	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.67	7.18	0.106	13.3	15.5	13.5	<0.14	24.3	<1	16.8	54.1
IP 1840	2.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.68	6.62	0.425	10	11.5	11.8	<0.14	24	<1	10.9	66.2
IP 1841	0.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	7.88	6.65	123	1.37	14.9	492	176	0.256	20.8	<1	19.2	185
IP 1841	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.1	10.3	0.803	16.4	22	21.5	<0.14	18.1	<1	23.3	102
IP 1842	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.22	5.47	0.404	12.2	15.5	11	<0.14	21	<1	14.8	41
IP 1848	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.42	24.6	0.984	16.1	50.2	98.8	<0.14	25.7	<1	22.6	163
IP 1848	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	6.34	12.2	0.68	18	18.1	18.8	<0.14	17.6	<10	25.3	95
IP 1848	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.67	7.16	0.424	9.54	<14	11.1	<0.14	21.1	<10	10.6	51.9
IP 1905	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	6.24	13.3	0.55	19	28.5	21.5	<0.14	23.9	<1	23.6	114
IP 1905	1.60-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	6.69	11.1	0.129	23.2	14.6	14.2	<0.14	19.4	<1	31	42.7
IP 1905	2.60-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.07	7.08	0.482	13.4	15.6	14.5	<0.14	31.2	<10	12.6	79
IP 1905	3.30-	140806-8	04/08/2014	06/08/2014	18/08/2014	8.34	6.34	5.4	0.371	21.5	44.6	22	<0.14	36.8	<1	23.2	93.2
IP 1908	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.24	46.3	1.47	18.2	160	137	1.04	26	<1	21.4	270
IP 1908	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.91	9.6	0.261	13	16.5	12.8	<0.14	19.5	<1	14.4	50.7
IP 1909	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	12	6.37	41.5	1.76	12.3	89.4	103	0.364	17	<1	19.5	232
IP 1909	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.76	13.9	0.275	13.6	12.6	15.8	<0.14	15.2	<1	18.5	46.3
IP 1909	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.8	7.01	0.224	13.2	15	12.8	<0.14	24.1	<1	15	67
IP 1911	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	2.71	7.64	18.7	0.654	13.1	28.9	39.8	<0.14	16	<1	16.1	92.1
IP 1911	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.95	8.35	0.122	12	13.8	12.6	<0.14	19.5	<1	16.5	64.4
IP 1920	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.8	78.2	4.53	34.9	187	233	12.4	43	1.49	13.2	690
IP 1920	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.01	3.34	0.0906	14	16	13.2	<0.14	22.4	<1	18.9	58.6
IP 1921	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.57	8.38	0.474	4.87	31.2	30.4	0.157	5.13	<1	5.62	118
IP 1921	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	5.46	2.72	0.11	13.9	5.67	10.3	<0.14	13.2	<1	18.3	28.2
IP 1922	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	5.58	9.04	0.402	14.5	21	15	<0.14	39.5	<1	16.6	67.9
IP 1922	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.97	7.05	0.387	12	11.6	10.1	<0.14	22	<1	11	68.9
IP 1923	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.52	65.9	2.3	119	507	2060	10.6	120	<10	677	1820
IP 1923	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.27	8.02	0.314	12.1	18.5	15.2	<0.14	39.4	<1	14.2	78.1
IP 1929	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	2.07	5.49	10.5	0.29	16.2	16.1	16.6	<0.14	18.1	<1	22	65.2
IP 1931	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.13	9.5	0.236	12.8	22.7	19.1	<0.14	17.6	<1	16.7	50.4
IP 1931	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	7.11	10.4	0.201	14.1	22.1	16.4	<0.14	24.7	<1	17.8	65.7
IP 1931	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.49	6.04	0.27	9.25	9.66	11.6	<0.14	19.8	<1	9.84	55
IP 1931	3.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.96	6.75	0.323	9.05	12.1	11.7	<0.14	19.3	<1	10.9	52.8
IP 1932	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.88	34.5	2.06	18.8	75.2	211	<0.14	35.1	<1	24.5	344
IP 1932	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.73	30.6	1.52	18.3	71	194	<0.14	27.8	<10	23.1	193
IP 1932	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	7.08	10.1	0.386	14.2	21.7	42.9	<0.14	25.8	<10	17.2	81.1
IP 1994	0.50-	140807-37	05/08/2014	07/08/2014	03/09/2014	-	6.38	19.3	0.664	17.4	38.9	67.4	<0.14	23	<1	23.2	135
IP 1998	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	15.1	5.7	202	0.797	8.77	442	368	0.175	19.2	1.9	18.6	110
IP 1998	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.7	7.54	0.291	13.7	19.2	15.5	<0.14	24	<1	14.7	69.8
IP 2008	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.79	6.54	1.13	9.39	29.2	18.3	<0.14	18.7	3.12	14.5	103
IP 2008	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.38	8.08	0.274	12	16.6	16.1	<0.14	24.1	<1	13.7	76.9
IP 2009	0.50-	140812-31	08/08/2014	12/08/2014	27/08/2014	-	7.67	16.8	0.397	8.3	39.7	60.3	<0.14	9.45	1.23	13.8	165
IP 2013	0.50-	140807-37	05/08/2014	07/08/2014	19/08/2014	-	6	8.26	0.327	14.1	14.2	14.2	<0.14	11.6	<1	19.6	46.7
IP 2014	0.50-	140807-37	05/08/2014	07/08/2014	19/08/2014	-	5.89	61.9	2.07	15	118	69.2	<0.14	18.4	1.76	22.7	209
IP 2015	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	5.84	61.7	1.5	14.5	142						

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP 2501	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	6.06	45.5	1.26	23.6	111	982	<0.14	28.3	473
IP 2501	0.40-	140818-45	13/08/2014	18/08/2014	04/09/2014	-	6.37	82.7	5.5	17.2	154	197	0.278	69	337
IP 2501	1.50-	140818-45	13/08/2014	18/08/2014	02/09/2014	-	6.07	10.8	0.474	12.2	14.6	25.3	<0.14	21.4	92.9
IP 2582	0.20-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.69	52	0.863	6.47	38.1	12.8	<0.14	3.8	95.8
IP 2582	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.2	7.41	0.225	11.4	8.8	11	<0.14	28	62.1
IP 2582	2.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.63	7.36	0.323	11.3	8.16	8.79	<0.14	24.9	58
IP 2583	0.50-	140805-8	01/08/2014	05/08/2014	18/08/2014	-	8.48	52.3	1.13	10.7	151	229	<0.14	17.8	615
IP 2598	0.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	7.01	29.3	1.16	15.9	75.8	169	<0.14	26.4	394
IP 2598	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	7.16	10.7	0.35	10.8	13.8	20.8	<0.14	22	85.4
IP 2879	0.50-	140902-28	28/08/2014	02/09/2014	16/09/2014	-	7.68	20.3	1.11	14.4	62.2	142	<0.14	28.6	415
IP 2879	1.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	6.04	10.4	0.477	12.9	16.3	25.4	<0.14	20.4	95.8
IP 2879	2.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	5.73	8.06	0.425	14.4	12.3	14.1	<0.14	26.1	60.3
IP 2879	3.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	6.11	7.48	0.43	12.5	10.7	12	<0.14	25.5	55.7
TPE 0836	0.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	5.86	22.3	2.05	4.91	21.4	17.4	<0.14	24.2	71.7
TPE 0836	1.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	5.33	17.4	0.421	11.6	12	11.3	<0.14	15.4	54.2
TPE 0928	0.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	6.08	11.5	0.498	19	32.5	25.4	<0.14	37	163
TPE 0928	1.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	6.38	9.31	0.276	13	23	18.5	<0.14	22.1	62.7
TPE 1013	0.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	8.12	26.1	0.729	14.6	47.1	275	<0.14	24.2	720
TPE 1013	1.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	5.93	130	2.91	14.1	204	188	<0.14	34	331
IP 1821	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.99	81.2	2.58	16.8	174	131	<0.14	27.2	329
IP 1821	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.42	32.3	1.06	17.2	49.5	27.7	<0.14	12.4	106
IP 1821	0.90-	140908-37	04/09/2014	08/09/2014	23/09/2014	1.68	5.21	5.36	0.156	12.7	8.96	10.6	<0.14	20	42
IP 1821	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.49	7.01	0.0469	11	9.48	12	<0.14	21.5	54.5
IP 1846	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.54	44.3	1.79	17.1	97.7	78.3	<0.14	16.6	209
IP 1846	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.43	10.7	0.0935	15.1	17.5	17	<0.14	14.9	40
IP 1846	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.43	9.09	0.274	12.6	18.2	18	<0.14	23.3	72.5
IP 1846	2.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.72	9.06	0.296	15	12.4	11.9	<0.14	30.4	66.7
IP 1847	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.01	32.9	1.23	16.6	71.5	145	<0.14	26	280
IP 1847	0.80-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.22	14.8	0.612	18	27.3	46.9	<0.14	19.6	125
IP 1847	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.39	9.83	<0.02	17.7	18.9	14.4	<0.14	21	51.6
IP 1847	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.51	7.3	0.143	11	9.78	11	<0.14	22.1	55.6
IP 1847	3.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.2	6.07	0.203	17.3	19.6	17	<0.14	38.1	87.9
IP 1906	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	5.88	73.3	2.32	16.3	153	242	<0.14	26.8	449
IP 1906	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.97	22.8	0.349	18.6	25.9	39.9	<0.14	11.5	58.3
IP 1906	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.53	7.53	0.28	11.3	9.91	11.2	<0.14	23.1	58.3
IP 1906	2.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.56	8.22	<0.02	10.7	6.35	19.5	<0.14	21	57.4
IP 1927	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.47	72.3	2.13	17.1	142	204	<0.14	30.5	300
IP 1927	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	1.14	6.03	9.79	0.0387	16.7	7.47	13.5	<0.14	14.3	33.7
IP 1927	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.48	8.13	0.147	12.3	21.1	14.9	<0.14	36.8	62.4
IP 1927	1.45-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.95	7.61	0.25	12.3	17.8	14.9	<0.14	35.3	68.3
IP 1928	0.30-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	5.62	15.8	0.546	17.6	25	32.8	<0.14	16.9	108
IP 1928	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	2.71	6.39	10.8	0.249	19.3	16.3	23	<0.14	21	72.7
IP 1928	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.51	5.84	0.317	11.6	6.85	10	<0.14	23.2	58.4
IP 1928	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.62	5.6	0.256	11.2	7.59	10.1	<0.14	21.2	54.1
IP 1995	0.20-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.44	33.9	1.5	15.7	69.2	93.5	<0.14	23.3	157
IP 1995	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.05	9.69	0.24	23.1	12.6	22	<0.14	19.2	62.1
IP 1995	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.7	9.01	0.179	15.8	20.4	16	<0.14	29	75.6
IP 2012	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	4.17	6.45	53.3	2.56	17.1	88.6	77.7	<0.14	19.2	257
IP 2012	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.52	24.3	0.453	18.2	22.4	25.3	<0.14	13.2	61.6
IP 2012	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.3	8.37	0.186	14.3	15.2	14.4	<0.14	17.5	44.8
IP 2012	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.24	5.65	0.196	11.8	7.54	7.33	<0.14	20.5	50.5
IP 2091	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.64	8.07	0.296	12.1	15.1	17.9	<0.14	26.4	71.7
IP 2091	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	5.5	44.8	2.28	20.8	103	169	<0.14	25.9	275
IP 2111	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.84	21.1	1.35	16.7	45.8	79.4	<0.14	16.7	220
IP 2111	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.39	6.18	0.328	12.6	12.2	12.9	<0.14	22.9	70.5
IP 2187	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.52	12.2	0.294	18.8	16.9	19.4	<0.14	17.2	63
IP 2187	0.60-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	5.98	13.6	0.446	18.2	24.6	54.7	0.163	22.5	114
IP 2187	1.60-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.66	7.78	0.343	12.4	13.6	12.8	<0.14	26	69.2
IP 2207	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.95	21.6	0.988	15	84.7	182	<0.14	19.6	261
IP 2207	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.17	19.2	0.841	15.5	72.2	99.6	<0.14	30.6	252
IP 2208	0.30-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.1	42.7	2.6	16.8	98.3	101	<0.14	31	314
IP 2208	1.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	2.71	6.14	23.2	0.861	17.4	42.7	39.8	<0.14	15.4	128
IP 2208	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.51	11.5	0.336	16.1	22.9	19.4	<0.14	27.1	73.1
IP 2208	1.80-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.62	8.77	0.198	15.5	19.9	16.4	<0.14	27.4	75.6
IP 2285	0.50-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.08	67.9	2.9	21.9	262	621	<0.14	29.4	1710
IP 2285	0.90-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.42	48.5	1.86	18.7	97.9	63.6	<0.14	25.1	221
IP 2285	1.40-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	9.06	0.221	14.8	18.8	16.8	<0.14	18.5	53.5
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	6.34	0.187	10.8	10.6	12.2	<0.14	20.4	58.4
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	6.34	0.187	10.8	10.6	12.2	<0.14	20.4	58.4
IP 2286	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	7.25	38.1	1.72	14.9	78.2	181	<0.14	23.8	226
IP 2286	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.37	8.48	0.309	14.3	18.2	16.7	<		

Monitor Phase 58

Excavate

					Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
					Commercial Deep 1%												
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
IP 2383	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	7.77	66.1	7.55	24.7	206	758	<0.14	30.3	<1	24.5	1190
IP 2383	0.90-	140905-19	02/09/2014	05/09/2014	20/09/2014	5.72	7.18	45.1	1.25	17.9	88.8	74.8	<0.14	18.7	<1	21.2	218
IP 2384	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	8.72	7.48	47	1.69	36.3	146	606	<0.14	28	<1	25	698
IP 2400	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	7.84	48.7	4.66	20.2	224	894	<0.14	29.8	3.91	24.2	3440
IP 2400	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.89	9.97	0.459	14.8	28.4	33.8	<0.14	23.8	<1	15.2	140
IP 2400	2.20-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.37	9.93	0.377	12.8	16.7	63.9	<0.14	24.4	<1	13.2	132
IP 2401	1.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	-	6.36	47.9	1.31	17.1	52.6	61.1	<0.14	18.9	<1	19.1	193
IP 2401	2.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	-	6.11	18.3	0.703	16.3	42.3	130	<0.14	29.8	<1	16.7	238
IP 2402	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	3.79	6.06	37.5	1.12	52.8	175	368	<0.14	34.8	<1	31.1	831
IP 2402	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.49	12.4	0.369	18.1	24.5	49.8	<0.14	24.8	<1	17.9	123
IP 2402	2.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.38	15.6	0.431	26.6	53	121	<0.14	30.6	<1	21.6	243
IP 2403	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.32	8.43	0.283	15.1	16.6	17.2	<0.14	29.8	<1	16	76.5
IP 2404	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.6	5.96	0.263	12.1	11.7	13.1	<0.14	21.9	<1	11.8	63.2
IP 2405	0.30-	140908-1	03/09/2014	08/09/2014	23/09/2014	-	6.78	11.1	0.187	14.1	81.5	41.5	<0.14	53.5	<1	36.7	33.3
IP 2405	1.00-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	6.86	8.29	0.244	12.6	12	14.2	<0.14	23.4	<1	10.2	71.1
IP 2406	0.20-	140908-1	03/09/2014	08/09/2014	23/09/2014	-	6.68	27.7	0.717	21.5	483	287	<0.14	40.7	<1	39.2	410
IP 2406	1.30-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	6.66	7.11	0.283	12.2	26.5	29.3	<0.14	23.9	<1	14.7	79.8
IP 2483	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	5.86	106	2.12	17.7	327	350	<0.14	27.3	<1	23.6	599
IP 2483	1.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.72	17.9	0.713	22.1	20.9	14.8	<0.14	14.7	<1	20.9	121
IP 2483	2.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.72	5.92	0.36	8.95	9.63	9.55	<0.14	15.2	<1	8.77	58.6
IP 2500	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	3.95	7.58	33.5	1.25	18.6	97.3	360	<0.14	36.2	<1	18.2	459
IP 2500	1.00-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.05	34	4.65	15.6	246	207	0.148	49	<1	29.1	299
IP 2500	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	5.55	9.58	0.338	17.3	10.4	12.4	<0.14	20.5	<1	13.2	55.6
IP 2500	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.32	9.96	0.358	19	14	18.9	<0.14	27.7	<1	15.4	71.9
IP 2766	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	5.47	8	63.6	2.73	17.3	167	177	0.293	32.7	<1	22.5	405
IP 2766	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.09	10.6	0.343	19	31.4	23	<0.14	29	<1	19	88
IP 2766	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.57	10	0.509	21.1	27.8	21.2	<0.14	34.7	<1	19.3	103
IP 2766	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.55	13.4	0.607	22	35	24.7	<0.14	41.1	<1	19.9	125
IP 2766	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.43	9.03	0.436	17	17.6	19.7	<0.14	33.6	<1	16.4	103
IP 2767	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	9.59	14.3	0.46	12.6	44.6	40.6	<0.14	43.9	<1	17	146
IP 2767	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	8.67	14.2	0.487	12.4	55.2	31.3	<0.14	42.7	<1	17	114
IP 2767	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.65	11.8	0.332	16.4	22.9	21.9	<0.14	28.1	<1	15.8	88.3
IP 2767	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.52	11.6	0.276	18.2	18.6	15.8	<0.14	26.9	<1	16.5	74.1
IP 2767	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.68	12	0.334	17.6	17.3	16.3	<0.14	27.2	<1	15.9	93.1
IP 2791	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	11.5	7.83	22.4	0.629	12	85.3	137	<0.14	28.3	<1	25.7	181
IP 2791	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	8	21.2	0.568	20.6	27.5	32.4	<0.14	22.8	<1	23.1	95
IP 2791	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.62	11.2	0.29	17.3	17.2	19.2	<0.14	26.2	<1	16.5	71.7
IP 2791	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.65	7.93	0.339	15.3	16.7	14.3	<0.14	33.3	<1	15.1	67.8
IP 2791	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	-	6.7	10.7	0.322	17.1	20	17.2	<0.14	29.8	<1	16.8	79.4
IP 2792	0.50-	140905-19	02/09/2014	05/09/2014	23/09/2014	-	8.04	17.8	0.709	12.5	84	82.3	<0.14	30.8	<1	20.1	216
IP 2792	1.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.3	8.72	0.244	18.2	18.2	16.6	<0.14	21.1	<1	19.3	52.6
IP 2792	2.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.14	9	0.497	14.9	11.8	13.3	<0.14	22.5	<1	17.1	61
IP 2792	3.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.18	9.24	0.336	16.1	12.7	14.4	<0.14	28.3	<1	15.3	74.2
IP 2792	4.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	5.77	9.6	0.325	17.2	18.2	17.5	<0.14	30.4	<1	17.2	80.4
IP 2856	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	7.51	45.6	2.91	17.5	210	485	<0.14	27.7	<1	22.4	883
IP 2856	1.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.64	9.98	0.311	15.3	17.3	26.8	<0.14	24.6	<1	15.6	71.1
IP 2856	2.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.46	7.92	0.305	15.1	13.1	14.2	<0.14	26.8	<1	14.4	65.3
IP 2856	3.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.18	7.5	0.38	14.2	11.4	17.2	<0.14	28.8	<1	13.5	69.6
IP 2856	4.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	-	6.45	8.98	0.302	14.7	16.2	15.7	<0.14	26.2	<1	15.1	65.7
TPE 1001	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.82	73.4	1.78	17.3	174	86.1	<0.14	20.6	<1	23.1	280
TPE 1001	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.2	9.81	0.224	13.3	25.2	24.9	<0.14	27.9	<1	15.8	71.4
TPE 1001	2.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.24	6.62	0.331	12.8	11.2	12.9	<0.14	24.4	<1	12.3	71.5
TPE 1002	0.10-	140908-1	03/09/2014	08/09/2014	22/09/2014	4.47	7.05	68.6	3.02	16.4	157	109	<0.14	20.1	<1	22.2	332
TPE 1002	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	7.31	10.4	0.085	17.3	17.7	22.5	<0.14	16	<1	18	69.5
TPE 1002	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.68	8.05	0.184	14.4	18	16.2	<0.14	27.1	<1	16.4	68.5
TPE 1002	2.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.14	7.93	0.257	12.4	11.2	13	<0.14	24.6	<1	12.3	67.6
TPE 1088	0.30-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.11	76	2.73	18.6	339	951	<0.14	35.2	<1	25.3	3280
TPE 1088	1.00-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	6.72	15.6	1.41	19.3	22.3	22.4	<0.14	16.5	<1	26.4	182
TPE 1088	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	5.99	9.81	0.246	21.3	17.5	16.1	<0.14	23.4	<1	32.3	62
TPE 1089	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.59	9.34	0.197	14	17	23.2	<0.14	26.3	<1	14.8	75.9
TPE 1089	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	7.18	49	1.68	24.3	134	332	<0.14	37.3	<1	29.1	641
TPE 1090	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.35	9.05	0.44	12.4	19.3	20.5	<0.14	18.9	<1	16.7	77.8
TPE 1090	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.01	6.81	0.299	13.1	11.8	11.7	<0.14	23.1	<1	12.6	61.9
TPE 1088	0.30-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.11	76	2.73	18.6	339</						

Monitor Phase 58

Excavate

Soil Organic Matter (SOM)			pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
Commercial	Deep 1%												
ate Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0/09/2014	-	5.44	109	13.3	15.9	336	167	<0.14	33.6	1.52	13.7	1050	
0/09/2014	-	5.59	8.5	0.421	12	188	13.5	<0.14	25.3	<1	13.8	66	
0/09/2014	-	6.96	6.7	0.481	9.74	10.9	9.86	<0.14	25	<1	10.4	65.6	
0/09/2014	-	7.23	86.8	1.79	16.7	87.3	355	5.97	43.8	<1	13.9	412	
0/09/2014	-	5.87	5.3	0.193	19.5	12.3	12.5	<0.14	20.8	<1	24.1	48.4	
0/09/2014	-	6.12	6.74	0.36	10.1	10.3	11.5	<0.14	23.6	<1	10.6	63.4	
0/09/2014	-	7.27	44.8	1.58	12.9	107	100	<0.14	18.2	<1	16.5	179	
0/09/2014	-	6.79	17.5	0.76	12.9	32.9	41.5	<0.14	24.1	<1	16	92.4	
0/09/2014	-	4.82	7.3	0.415	9.96	13.4	14.5	<0.14	25.3	<1	10.9	62.2	
0/09/2014	9.5	6.63	43.3	3.24	33.4	77.9	1040	<1.4	43.3	<10	24.9	439	
0/09/2014	-	6.47	11.3	1.02	12.3	16.9	46	<1.4	25.8	<10	15.5	75.6	
0/09/2014	-	6.48	7.96	0.447	11.2	14.4	27.6	<0.14	25	<1	11.6	65.5	
0/09/2014	-	6.66	10.8	0.41	13.8	15	16.4	<0.14	26.2	<1	13.4	74.2	
0/09/2014	-	6.86	8.46	0.459	10.8	17.9	13.8	<0.14	22.5	<1	12.5	62.5	
0/09/2014	-	6.96	7.6	0.348	10.2	9.39	10.4	<0.14	21.3	<1	10.7	51	
0/09/2014	-	6.69	10.2	0.426	13.2	15.9	15.4	<0.14	16.6	<1	15.9	77.4	
0/09/2014	-	6.99	8.55	0.401	10.7	14.5	13.5	<0.14	18.7	<1	12.8	63.5	
0/09/2014	-	6.79	6.79	0.385	9.08	12	10.6	<0.14	18.8	<1	10.7	49.2	
0/09/2014	-	7.43	9.59	0.517	5.9	7.33	35.8	<0.14	9.72	<1	15.4	67.9	
0/09/2014	-	6.83	8.27	0.445	10.4	14.9	17.7	<0.14	20	<1	12.2	62.9	
0/09/2014	-	6.14	76.1	2.16	15.2	162	84.9	<0.14	17.7	<1	21.1	348	
0/09/2014	-	5.74	9.96	0.46	12.8	19.1	71.3	<0.14	21.6	<1	12.9	83.1	
0/09/2014	-	5.38	32.4	1.11	44.9	37.5	1150	<0.14	41.5	<10	13.8	232	
0/09/2014	2.14	6.09	126	2.15	21.7	211	135	<0.14	17.3	<1	23.8	1570	
0/09/2014	-	7.19	33.6	80.8	22.4	466	385	0.792	58.7	1.98	39	1400	
0/09/2014	-	5.69	8.34	0.395	15	17	24.7	<0.14	24.3	<1	14.2	92.5	
0/09/2014	-	7.1	60.6	2.18	28.8	123	864	<0.14	28.4	<1	22.3	2060	
0/09/2014	-	6.42	6.49	0.28	14.9	25.7	17.4	0.158	31.8	<1	15.8	84.6	
0/09/2014	-	6.33	8.5	0.391	17.4	14.4	20.3	<0.14	31.5	<1	18.1	92	
1/10/2014	-	8.9	9.27	0.393	12.1	30.1	31.5	<0.14	36	<1	19.2	103	
0/09/2014	-	6.87	9.43	0.157	17.8	15.3	13.1	<0.14	15.1	<1	21.7	34.5	
0/09/2014	-	5.59	8.56	0.403	12.7	17.8	13.3	<0.14	31.1	<1	15.5	65.6	
0/09/2014	-	5.95	7.47	0.278	12.1	12.7	12.4	<0.14	23.3	<1	12.8	66.4	
0/09/2014	-	6.25	6.93	0.417	12	9.49	9.34	<0.14	22.8	<1	13.7	61.1	
0/09/2014	0.878	6.57	5.43	0.479	14.9	10	30.5	<0.14	27.9	<1	12.1	86.4	
0/09/2014	-	6.44	6.1	0.368	11.7	8.76	8.85	<0.14	21.6	<1	11.7	54.2	
0/09/2014	-	6.49	7.14	0.389	11.7	15.7	13	<0.14	26.8	<1	13.5	68.2	
0/09/2014	-	7.05	7.48	0.38	9.74	12.4	11.8	<0.14	18.7	<1	11.1	55.4	
1/10/2014	-	8.86	1.4	0.615	12.2	41.2	34	<0.14	43.7	<1	14	145	
0/09/2014	9.67	9.64	9.11	0.447	10.2	26.2	17.3	<0.14	31.1	<1	12.3	84.3	
0/09/2014	-	9.37	9.81	0.524	9.78	40.9	23.3	<0.14	35.4	<1	12.3	94	
0/09/2014	-	8.21	52.1	0.973	11.9	177	126	<0.14	18.2	<1	15	596	
0/09/2014	-	8.48	16.8	0.439	6.99	42.1	33.3	0.183	12.2	<1	10.2	157	
0/09/2014	7.22	8.6	16.9	0.564	13.1	75.2	50.6	<0.14	38.6	<1	13	193	
0/09/2014	-	6.96	9.55	0.206	16	17.3	16.1	<0.14	30.9	<1	17.6	75.6	
0/09/2014	-	7.9	12.3	0.336	14.8	32.9	24.2	<0.14	28.6	<1	16.1	112	
0/09/2014	-	7.35	9.61	0.552	12.5	16.1	16.3	<0.14	21.5	<1	12	70.4	
0/09/2014	-	5.79	132	2.12	20.4	191	121	<0.14	44.2	<10	16.4	177	
0/09/2014	2.81	6.01	8.7	0.294	14.1	17.1	12.3	<0.14	17	<1	15.7	44.9	
0/09/2014	-	5.35	18.1	0.381	13	19.6	16.8	<0.14	25.3	<1	16.1	68.5	
1/10/2014	-	7.13	52.6	1.92	30.7	137	1090	0.483	44.1	<1	31.1	522	
0/09/2014	-	5.37	7.58	1.22	12.1	<14	15.6	<0.14	27.5	<10	17.6	78.5	
0/09/2014	-	7.05	12.1	0.46	13.9	17.8	16.9	<0.14	24.4	<1	14.4	77.2	
0/09/2014	1.36	6.43	7.65	0.527	15.6	12.4	16.8	<0.14	29.7	<1	15.9	75.7	
3/10/2014	4.33	7.91	27.6	0.695	14.2	57.5	139	0.356	23.1	<1	16.4	809	
3/10/2014	-	7.55	43.3	1.98	21.4	159	328	0.955	50.9	1.52	30.3	414	
3/10/2014	-	6.14	11.4	0.409	15.8	26.3	17.3	<0.14	21.1	1	20.4	87.9	
3/10/2014	-	6.16	9.11	0.269	11	13.1	12.2	<0.14	25.4	<1	12.5	68.6	
3/10/2014	-	7.11	73.8	1.83	27.4	222	431	0.867	61	<1	29.1	545	
3/10/2014	1.65	6.91	18.2	0.489	18	15.5	18.9	<0.14	16.8	1.36	25.1	77	
3/10/2014	-	6.66	6.74	0.249	10.9	8.54	9.94	<0.14	22.9	<1	11.3	56.6	
3/10/2014	-	6.76	7.5	0.355	11.5	11.9	24.2	<0.14	27.3	<1	12.2	81.9	
3/10/2014	-	7.89	221	3.4	22.9	397	1770	0.8	42	<1	27.6	718	
3/10/2014	2.62	7.28	9.46	0.143	15	17.2	16.9	<0.14	17.2	<1	16.9	56.1	
3/10/2014	-	6.76	5.74	0.404	13.7	7.78	9.66	<0.14	27.1	<1	13.5	79.1	
3/10/2014	-	6.71	5.41	0.453	10.3	8.44	10.6	<0.14	23.5	<1	9.97	62.3	
3/10/2014	-	8.25	33.9	0.874	15.9	67.8	155	<0.14	26	<1	18.7	419	
3/10/2014	-	6.71	23.4	1.12	18.9	96.7	22.3	<0.14	19.9	1.75	25.2	140	
3/10/2014	-	6.23	6.49	0.286	9.7	8.94	11.6	<0.14	19.7	<1	11	51.4	
3/10/2014	-	7.1	45.9	1.32	12.5	81.8	70.3	<0.14	38.2	2.1	30.2	274	
3/10/2014	-	6.36	22	1.24	18.1	44.4	28.7	<0.14	26.2	1.47	24.3	188	
3/10/2014	-	7.1	11.5	0.711	14.6	25.4	28.3	<0.14	20.9	<1	16.9	112	
3/10/2014	-	5.76	22.1	0.876	16.2	39.6	28.9	<0.14	21.3	<1	20.9	175	
3/10/2014	-	5.87	10.6	0.403	12.9	20.4	16.3	<0.14	20.8	<1	15.5	80.6	
3/10/2014	1.08	6.54	8.22	0.365	11.2	14.5	13.6	<0.14	21.4	<1	11.7	63.3	
3/10/2014	-	7.22	8.34	0.208	11.4	17.7	15	<0.14	39.6	<1	12.6	69.3	
3/10/2014	4.29	6.53	8.6	0.225	11.8	24.3	19.2	<0.14	26.5	<1	14.3	74.1	
3/10/2014	-	6.7	16.2	<0.02	27.8	11.6	23.7	<0.14	19.8	<1	33	57.2	
3/10/2014	-	5.97	56.5	1.91	16.2	170	102	<0.14	21	<1	23.6	178	
3/10/2014	2.24	5.99	10.8	0.385	14.1	13.7	16.7	<0.14	13.7	<1	16.1	51	
3/10/2014	-	6.06	8.41	0.191	14.8	24.6	15.5	<0.14	47.5	<1	17.4	79.5	
3/10/2014	-	7.96	7.82	0.264	11.3	9.29	9.81	0.272	25.4	<1	10.9	64.4	
3/10/2014	-	6.3	23.7	0.785	14.8	45.9	26.2	<0.14	19	<1	19.3	95.2	
3/10/2014	-	6.01	17.5	0.433	15.8	30.1	20.7	<0.14	19.2	<1	20.4	76.8	
3/10/2014	3.74	6.62	12	0.382	13.4	29.1	20.3	<0.14	23	<1	16.5	73	
3/10/2014	-	6.55	9.34	0.444	13.6	19.2	16.5	<0.14	30.7	<1	14.6	84.9	
3/10/2014	-	6.34	56	1.14	17.5	56.7	111	<0.14	37.4	<1	19.1	240	
3/10/2014	-	8.06	37.5	1.08	18.9	87.4	263	<0.14	34.6	<1	20.7	574	
3/10/2014	63.6	6.1	104	6.4	4.2	124	37.8	<0.14	29.3	2.02	7.73	591	
3/10/2014	-	5.78	3.99	0.106	18.3	12.1	16.5	<0.14	24	<1	22.5	40.8	
3/10/2014	0.705	6.81	6.43	0.334	9.43	10.8	14.8	<0.14	20.8	<1	9.18	66.7	
3/10/2014	1.93	7.91	27.1	1.08	13.3	49.3	287	<0.14	29.5	<1	18	610	
3/10/2014	-	6.57	25.3	1.57	15.3	50.5	70.7	<0.14	30.8	<1	18.1	226	
3/10/2014	-	6.29	25.8	1.95	20.4	85.4	160	<1.4	39.4	<10	20.3	288	
3/10/2014	1.52	6.03	5.33	0.23	16.8	17.4	17.7	<0.14	27.8	<1	14.5	76.2	
3/10/2014	-	8.1	68.1	0.868	11.1	174	412	<0.14	24.7	<1	16.1	602	
3/10/2014	-	6.39	124	2.02	11	197	98.6	<0.14	19.6	1.52	14.5	571	
3/10/2014	-	6.57	5.67	0.164	15.6	15.2	14.7	<0.14	38.3	<1	17.9	51.4	
3/10/2014	-	8.38	11.8	0.617	11.8	26.2	59.9	<0.14	23.6	<1	13.2	134	
3/10/2													

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
TPE1172	4.00-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6	6.89	0.451	12.8	9.01	10.9	<0.14	30.5	<1	14.3	64.3
TPE1176	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.7	90	1.78	24	274	571	<1.4	38.7	1.48	24.5	1210
TPE1177	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	6.95	8.17	294	11	19.3	3230	2950	<0.14	55	2.72	27.2	25900
TPE1188	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	1.88	8.3	68.3	2.2	13.4	122	247	0.236	20.8	<1	20.6	556
TPE1188	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	8.22	328	2.33	15.7	931	303	<0.14	40	<1	31	887
TPE1189	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.88	32.2	1.58	14.7	101	279	<1.4	28	2.53	15.8	452
TPE1189	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	8.08	19.8	0.898	14.9	42.2	138	<0.14	28.1	<1	17.8	244
TPE1189	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	5.61	9.93	0.481	11.6	16	16.1	<0.14	20.3	1.11	13.6	71.7
TPE1189	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.32	10.3	0.407	10	11.5	11.3	<0.14	17.1	<1	11.9	61.2
TPE1190	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	5.98	8.73	22.5	0.675	15.2	44	118	<0.14	29	<1	16	274
TPE1190	1.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.07	53.7	2.9	16.4	99.1	89.5	<0.14	35.1	1.91	32.6	319
TPE1190	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.47	16.4	0.733	20.4	21.4	20.4	<0.14	19.3	1.81	25.7	118
TPE1190	3.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.89	6.8	0.383	11.6	12	11.4	<0.14	24.2	<1	12.4	67.1
TPE1192	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.18	12.2	0.495	12.3	31.8	86.9	<0.14	22.3	1.01	16.1	198
TPE1192	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.47	14.8	0.587	14.5	46.4	167	<0.14	25.6	<1	18.4	366
TPE1192	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.34	9.21	0.371	12.5	15.8	27.4	<0.14	21.9	<1	14.2	88
TPE1253	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	10.6	7.54	662	10.2	26	4360	2250	<0.14	52.5	<10	52.5	7790
TPE1253	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.45	12.9	0.439	12.7	52.9	20	<0.14	23.7	1.12	16.2	103
TPE1253	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.31	6.67	0.441	12.1	9.8	14.1	<0.14	24.7	<1	12.1	79.4
TPE1253	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.4	8.31	0.406	13.6	18.4	16.8	<0.14	29.7	<1	16.2	99
TPE1254 A	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	15.8	7.21	187	3.73	23.1	1080	828	<0.14	47	<10	37.6	2060
TPE1254 A	0.90-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.25	49	1.39	17.7	97.6	82.8	<0.14	26.6	1.7	29.6	251
TPE1254 B	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	17.4	7.5	104	2.77	23.7	656	975	0.217	46	1.4	38	1810
TPE1254 B	0.80-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.43	16.7	0.234	21.9	10.6	18.8	<0.14	17.1	1.73	30.3	61.4
TPE1255	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	3.88	11.1	7.82	0.409	9.44	26	26.7	<0.14	22.4	<1	14.5	125
TPE1255	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	11.1	10.5	0.542	9.85	31	122	0.19	27.4	<1	13.9	203
TPE1257	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.14	9.2	0.371	10.7	23	22.2	<0.14	27.6	<1	14.4	77.1
TPE1257	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.43	9.59	0.29	8.56	35.7	26	<0.14	33.6	<1	11.9	91
TPE1257	2.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	8.28	14.1	0.596	18.2	16	18.4	<0.14	14	1.48	23.1	72.6
TPE1257	3.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	0.728	7	8.67	0.136	14	11.7	14.5	<0.14	22.5	<1	15.3	53.4
TPE1257	4.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	6.95	7.43	0.0441	13.3	11.8	13.3	<0.14	23.9	<1	13.6	55.5
TPE1258	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	0.946	6.74	9.48	0.975	17.4	15.6	18.4	<0.14	39.1	6.03	13.2	81.1
TPE1258	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.92	29.5	1.04	36.7	81.4	163	<0.14	29.8	1.09	26.8	389
TPE1258	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.71	8.11	0.436	12.4	8.02	13.1	<0.14	26.6	1.38	11.6	61.2
TPE1258	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.22	7.89	0.444	13.7	9.14	12.1	<0.14	26	1.74	13.2	56.8
TPE1258	4.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	0.696	7.36	8.74	0.357	13.3	10.4	12.9	<0.14	28.1	1.13	16.5	66.3
TPE1270	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	9.57	9.49	9.42	0.488	9.91	30.5	21.7	<0.14	31.6	<1	13.1	91.6
TPE1270	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.76	10.1	0.3	11	34.2	27.7	<0.14	36	<1	12.9	94.1
TPE1270	2.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	8.22	48.1	<0.02	14	480	496	<0.14	45.1	1.15	28.9	350
TPE1270	3.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	1.4	7.13	11.3	0.38	12.1	34.9	32.3	<0.14	20.2	<1	14.9	89.1
TPE1270	4.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	7.23	5.55	0.047	16.8	15.7	14.1	<0.14	31.2	<1	18	67.7
TPE1272	0.30-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	7.29	40.3	1.76	23.6	158	423	<0.14	46.4	1.29	56.1	642
TPE1272	1.30-	140708-59	07/07/2014	08/07/2014	07/10/2014	1.29	5.98	9.24	0.157	21	13.3	19.4	<0.14	19.3	<1	25.2	52.4
TPE1272	2.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	6.27	10.6	0.117	17.3	22.9	23.3	<0.14	35.7	<1	18.8	98.9
TPE1272	3.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	5.58	9.03	0.0574	16.6	19.5	19.4	<0.14	31.5	<1	17.1	82.8
TPE1272	4.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	5.87	8.23	0.0302	16.4	17.1	18.3	<0.14	33.8	<1	17.2	86.2
TPE1273	1.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	4.05	7.34	25.7	1.2	17.1	62.9	78.2	<0.14	26.7	1.13	23.8	449
TPE1273	2.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.73	7.69	0.331	16.1	15.5	15.6	<0.14	30.1	<1	16.8	90.7
TPE1273	3.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	5.63	6.94	0.492	15.3	16.7	15.7	<0.14	32.4	1.28	17.4	98.5
TPE1273	4.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.17	9.27	0.44	15.9	16.2	16.7	<0.14	35.5	<1	18.2	104
TPE839	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	12.6	7.87	57.3	2.23	14.4	142	439	0.936	26.5	<1	24.5	1290
TPE839	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.63	8.59	0.44	12	19.9	17.5	<0.14	35.1	<1	13.8	82
TPE839	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.32	7.36	0.423	6.82	18.8	22.8	<0.14	18.8	<1	6.8	82.9
TPE913	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	4.81	7.15	6.76	0.433	4.51	11.9	29.4	0.297	2.83	<1	5.32	74.9
TPE913	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.49	7.02	0.3	11.1	17	16.6	<0.14	19.2	<1	13.4	52.8
TPE913	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.78	6.85	0.427	9.97	9.57	11.6	<0.14	22.3	<1	11.1	61.8
TPE914	0.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	10.8	6.3	41.5	4.77	18.8	55.3	31.4	<0.14	19.1	1.73	27.1	345
TPE914	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.64	14.1	0.612	7.42	18.4	43.2	0.43	7.8	<1	8.09	78.8
TPE914	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	5.75	8	0.313	14.4	19.1	14.8	<0.14	25.9	<1	18.4	55.8
TPE914	2.00-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.13	8.82	0.408	12.7	11.6	12.5	<0.14	19.3	<1	15.1	58.5
TPE915	0.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	32.6	6.71	152	4.35	21.3	324	308	0.358	45.1	3.27	30.4	446
TPE915	1.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.35	3.27	0.343	8.4	6.01	9.52	<0.14	6.85	<1	13.2	23.7
TPE916	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	3.09	8.57	23.1	0.45	16.3	29.9	154	<0.14	20.7	<1	34.4	439
TPE916	1.30-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.61	84.1	0.605	8.26	157	121	<0.14	15	1.2	18.7	157
TPE916	2.00-	140710-62	08/07/2014	10/07/2014	22/10/2014												

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
IP 2387	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.52	5.08	<0.02	12.1	8.22	9.81	<0.14	28.8	<1	11	77.3
IP 2388	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.77	8.9	0.325	9.81	20.3	32.4	0.173	15	<1	10.9	127
IP 2388	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.07	5.07	<0.02	13.1	9.4	12	<0.14	25.8	<1	13.8	81.5
IP 2388	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	7.99	5.64	<0.02	11.7	11.9	14.2	<0.14	23.7	<1	13.7	66.4
IP 2390	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	1.27	5.73	7.1	<0.02	13.6	9.74	15.8	<0.14	13.4	<1	14.3	39.1
IP 2390	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.66	10.4	<0.02	17	19.9	30.4	<0.14	38.6	<1	18.7	103
IP 2392	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.98	13.4	0.674	15	27.7	64.6	4.35	22.7	<1	14	229
IP 2486	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.38	50.3	0.996	31.9	96.5	177	0.186	35.9	<1	30.2	407
IP 2486	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	2.41	5.64	22.6	0.171	16.5	16.5	27.6	<0.14	16.5	<1	25.5	88
IP 2486	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	-	6.19	8.18	<0.02	14.1	15.4	13.8	0.192	16	<1	13.9	43.8
IP 2486	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.12	9.53	<0.02	27.3	18.4	21.5	<0.14	30.3	<1	29.7	96.1
IP 2488	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.84	4.65	<0.02	11.9	10.5	26.4	<0.14	17.3	<1	10.6	82.3
IP 2488	1.10	141003-69	29/09/2014	03/10/2014	19/10/2014	-	7.17	6.29	0.034	13.2	12.7	15.1	<0.14	30.1	<1	14	74.5
IP 2489	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.54	9.75	0.364	14.1	13.7	28.2	<0.14	16.9	<1	12.9	67.6
IP 2489	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.81	8.6	<0.02	12.9	16.2	16.6	<0.14	24.9	<1	15	70.8
IP 2489	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.22	8.15	<0.02	14.1	18.3	26.5	<0.14	29.6	<1	15.8	75.3
IP 2490	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.82	5.28	0.146	12.6	7.11	27.5	<0.14	13.9	<1	11.5	47.3
IP 2490	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.88	9	<0.02	15	18.3	22.8	<0.14	28.7	<1	16.9	88.8
IP 2490	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.71	7.6	<0.02	12	12.1	12.2	<0.14	23.5	<1	13.1	53.2
IP 2491	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	0.524	5.5	2.51	0.116	7.87	1.99	29.1	<0.14	5.3	<1	10.4	34.9
IP 2491	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.56	10.8	<0.02	12.4	5.63	13.4	<0.14	13.6	<1	15	44.5
IP 2491	2.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.76	8.63	<0.02	13.9	13.3	15.3	<0.14	26.9	<1	15.7	65.5
IP 2492	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.71	276	4.37	13.5	492	445	0.248	18.9	1.4	13.8	321
IP 2492	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.95	8.81	<0.02	11.3	10.3	18.5	<0.14	13.5	<1	11.3	42.5
IP 2492	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.83	7.38	<0.02	12.2	11	14.5	<0.14	23.3	<1	12.6	60.6
IP 2493	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	4.85	8.45	0.214	15.1	12	14.9	<0.14	18.4	<1	15.6	53.4
IP 2493	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	1.34	6.08	7.39	0.162	11.5	11.4	12.7	<0.14	22.6	<1	12.5	70.1
IP 2493	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.52	7.26	0.162	13.1	11.7	12.9	<0.14	27.4	<1	14.4	69.6
IP 2494	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.9	9.91	0.0402	14.3	16.2	16.3	<0.14	14.4	<1	16.3	48.8
IP 2494	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	4.28	11.4	0.152	12.8	25.2	32.2	<0.14	12.9	<1	14.1	75.9
IP 2494	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.42	6.2	0.0305	10.5	9.4	11	<0.14	22.8	<1	11.4	61.5
IP 2496	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7	9.56	0.297	15.2	24.4	26.3	<0.14	25.6	<1	19.8	83.1
IP 2496	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.58	7.98	0.049	13	14.5	13.3	0.269	25.5	<1	14.5	71.4
IP 2496	2.50	141001-76	26/09/2014	01/10/2014	18/10/2014	-	6.72	6.97	0.14	11	10.4	10.5	<0.14	19.4	<1	12.1	57.8
IP 2592	0.40	141001-76	26/09/2014	01/10/2014	18/10/2014	-	7.16	29.1	0.787	15.1	54.9	107	<0.14	20.6	<1	20.7	208
IP 2779	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	1.55	5.93	33.4	0.278	18.6	21.5	19.3	<0.14	13.7	<1	20.1	1130
IP 2779	0.50	141001-76	26/09/2014	01/10/2014	05/11/2014	-	8.11	53.1	1.62	79.7	238	936	1.4	68.8	<1	56.4	1200
IP 2779	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.38	9.94	0.159	13.9	18.6	16.5	<0.14	19	<1	15.8	78.5
IP 2779	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.62	21.9	0.331	25.8	181	217	0.721	31.4	<1	26.3	412
IP 2779	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.44	6.95	0.13	12	10.9	11.7	<0.14	24.3	<1	13.3	68.1
IP 2779	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.67	24.8	0.368	27	91.2	200	0.694	30.2	<1	22.5	385
IP 2865	1.00	141001-76	26/09/2014	01/10/2014	05/11/2014	-	7.78	15.6	0.441	12.3	30.8	40.2	<0.14	22	<1	16.1	135
IP 2865	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.55	7.68	0.102	16.7	20.4	17.6	<0.14	33.4	<1	18	76.5
IP 2866	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.8	60.3	0.854	17.1	212	147	<0.14	26	<1	22.9	657
IP 2866	3.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.02	6.5	0.0679	15.3	15.6	15.8	<0.14	30.4	<1	16.8	70.7
IP 2869	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	2.48	8.91	10.7	0.195	14.7	29	51.2	<0.14	35.7	<1	17.4	127
IP 2869	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.32	7.5	<0.02	15.1	10.3	31.4	<0.14	33	<1	15.2	108
IP2194	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.24	37.1	4.11	11.2	92	47.3	<0.14	12.1	1.22	11.1	212
IP2194	0.90	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.61	64.4	0.848	14.4	116	65.7	<0.14	17.9	1.13	21.2	185
IP2194	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.96	66.3	0.781	15.9	57.3	42.7	<0.14	18.1	<1	21.9	199
IP2194	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.92	6	<0.02	11.8	7.05	9.5	<0.14	22.5	<1	13.1	51.6
IP2194	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.65	5.15	<0.02	11.7	6	8.45	<0.14	22.7	<1	12.1	46.9
IP2195	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	3.1	7.62	18.6	0.512	12.9	35.8	79.5	0.189	15.2	<1	15.7	200
IP2195	0.90	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.39	15.9	0.722	15	61.3	113	0.266	18	<1	18.9	261
IP2195	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.39	18.1	0.343	17.4	50.8	51.3	<0.14	28.8	<1	20.6	176
IP2195	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.28	8.76	<0.02	11.9	11.8	13.2	<0.14	21.3	<1	14.3	68.4
IP2195	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.85	4.68	<0.02	12.3	6.93	10.8	<0.14	25.1	<1	9.1	63.5
IP2196	0.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	8.28	25.5	0.744	16.3	53.8	71.2	0.236	23	<1	17.7	189
IP2196	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.54	4.56	0.0742	13.4	7.75	13.4	<0.14	14.4	<1	11.7	34.6
IP2196	1.80	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.12	25.1	2.17	5.47	778	185	0.216	6.89	2.59	7.7	114
IP2196	2.80	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.47	8.74	0.0511	11.3	24.5	14.8	<0.14	17.7	<1	14.6	50.2
IP2196	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.9	6.3	<0.02	11.2	9.03	9.2	<0.14	25.5	<1	11.6	57.2
IP2196	4.20	141003-92	30/09/2014	03/10/2014	19/10/2014	1.03	5.92	10.8	<0.02	9.42	13.1	12.2	<0.14	20.5	<1	11.1	63.8
IP2292	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	8	30.3	0.994	18.3	74.6	85.8	0.236	26.4	<1	22.7	216
IP2292	1.40	1410															

Monitor Phase 58

Excavate

						Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
						Commercial Deep 1%											
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP2768	1.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	8.83	12.5	0.173	11.5	45.6	37.2	<0.14	44.3	<1	13.4	147
IP2768	2.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	7.98	61.7	0.586	13.8	342	58	<0.14	37.7	<1	20.8	378
IP2769	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	7.92	24.7	0.461	15.3	103	58	<0.14	45	<1	16.4	238
IP2769	1.00-	140927-29	22/09/2014	27/09/2014	23/10/2014	-	8.11	<6	0.232	<9	<14	938	<1.4	7.6	<10	2.01	167
IP2774	0.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	8.39	18.7	0.59	14.2	39.5	46.4	<0.14	26.6	<1	16.5	114
IP2774	1.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.95	15	0.169	14.9	23.9	36.6	<0.14	30.4	<1	15.6	152
IP2776	1.00-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	8.01	47.5	2.6	160	404	2310	4.38	68.2	<1	54.3	1660
IP2776	2.00-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	7.61	37.9	0.99	226	335	391	3.24	75.5	<1	76.1	938
IP2776	3.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	7.81	18	0.278	13.7	43.5	68.2	0.404	24.6	<1	23	172
IP2776	4.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	4.03	7.44	18.4	0.428	25.8	83.1	215	0.429	29.4	<1	23.3	395
IP2785	0.20-	140927-45	23/09/2014	27/09/2014	15/10/2014	-	7.81	104	1.32	16.2	348	127	0.361	29	<1	24.6	580
IP2785	1.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	-	7.06	8.5	<0.02	14.3	16.8	16.7	<0.14	26.6	<1	15.2	72.5
IP2785	2.50-	140927-45	23/09/2014	27/09/2014	13/10/2014	-	7.2	7.17	<0.02	13.5	13.4	14	0.175	21.8	<1	15	57.5
IP2785	3.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	-	7.05	6.68	<0.02	13.6	16	14.8	0.154	20.4	<1	15.4	57.3
IP2787	0.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	3.86	8.31	41.4	0.646	15.2	146	489	<0.14	29.5	<1	20.7	830
IP2787	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.97	129	1.31	16.5	65.9	300	<0.14	27.8	<1	18.7	861
IP2787	3.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.29	9.09	0.0754	13	17.1	28.3	<0.14	20.2	<1	13.5	86
IP2788	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	9.63	20.7	0.345	28.7	75.8	153	0.425	26.2	<1	20.3	288
IP2788	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	8.39	54.5	0.914	18.2	270	757	<0.14	30.4	<1	20.6	715
IP2788	2.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.84	11.3	0.344	14.2	46.5	23.1	<0.14	25.8	<1	16.4	73.5
IP2789	1.00-	140927-29	22/09/2014	27/09/2014	22/10/2014	-	8.92	15.2	0.0789	13.1	36.2	28.8	<0.14	36.7	<1	15.3	115
IP2789	2.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	7.59	15.9	<0.02	13.9	78.2	23.6	<0.14	28.2	<1	17.5	120
IP2789	3.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	2.91	7.57	13.1	<0.02	13.3	55.6	18.5	<0.14	28	<1	17.1	87.1
IP2863	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	9.07	7.56	0.108	11.2	22.4	22.2	<0.14	24.6	<1	16.4	85.4
IP2863	1.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	7.38	20.4	0.556	17.9	41.7	75.2	<0.14	27.7	<1	17.8	150
IP2868	0.50-	140927-45	23/09/2014	30/09/2014	14/10/2014	-	6.81	17.4	0.289	13.8	19.9	24.8	<0.14	29.6	<1	15.2	81.4
IP2868	1.50-	140927-45	23/09/2014	30/09/2014	14/10/2014	-	6.72	12.6	<0.02	12.3	9.99	12.1	0.141	27.3	<1	14.8	58.2
IP2870	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	7.76	13.5	0.176	8.83	37.1	17.5	<0.14	39.1	<1	12.7	70.7
IP2870	1.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	7.47	24.8	0.775	16.8	49.9	94.4	<0.14	25.1	<1	18.9	189
TPE 1094	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	2.81	6.91	19.1	0.797	14.9	44	281	<0.14	23.6	<1	19.1	232
TPE 1094	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.92	16	0.0874	14.5	31.7	32.3	<0.14	33.9	<1	18.8	87.3
TPE 1094	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.46	10.2	<0.02	13.7	18.2	16.2	<0.14	37.6	<1	16.7	76.4
TPE 1094	3.10-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.59	7.74	<0.02	11.8	10.3	13.4	<0.14	26.4	<1	12.8	61.1
TPE 1095	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	4.5	8.36	27.7	0.788	14.2	62.7	106	0.377	21.4	<1	17.8	231
TPE 1095	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.68	185	1.02	10.9	274	83.9	<0.14	12.6	<1	15.4	144
TPE 1095	2.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.99	7.2	<0.02	11.9	11.7	11.8	<0.14	24.1	<1	15.1	60.1
TPE 1095	3.20-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.56	9.31	<0.02	11	11	12.4	<0.14	24	<1	11.8	61.7
TPE 1179	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.55	79.2	2.97	215	168	59.4	<0.14	24.8	1.7	132	3170
TPE 1179	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.43	10.3	<0.02	14	9.95	29.5	<0.14	13.9	<1	15.4	84
TPE 1179	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	7.66	5.53	<0.02	13.2	8.08	12.1	<0.14	24	<1	14.5	63.6
TPE 1181	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.83	7.2	<0.02	11.5	6.04	10.2	<0.14	15	<1	10.9	43.1
TPE 1181	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.88	8.01	<0.02	11.3	10.9	13.2	<0.14	23.6	<1	13.7	61.3
TPE 1261	0.40-	141001-76	26/09/2014	01/10/2014	05/11/2014	-	8.24	137	3.1	20.8	590	899	<0.14	31.2	<1	22.4	2050
TPE 1261	0.70-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	6.71	18.4	0.139	16.7	30.6	36.1	<0.14	35.3	<1	17.2	172
TPE 1337	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.68	13.7	0.0592	11.6	19.1	17.7	<0.14	18.1	<1	13.5	73.6
TPE 1337	2.10-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.7	10.3	0.054	13.6	6.39	11.1	<0.14	22.7	<1	11.2	61.8
TPE1096	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.68	18.6	0.439	13.9	38.2	59.6	<0.14	23.2	<1	15.4	151
TPE1096	0.90-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.15	40.7	2.59	7.84	295	175	0.195	18.3	1.07	14	199
TPE1096	2.00-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.78	27.9	1.33	12.6	48.9	27.8	<0.14	15.9	<1	14.1	118
TPE1096	3.00-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.71	6.5	<0.02	12.1	11.3	12.4	<0.14	24.5	<1	15	63.6
TPE1100	0.20-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.93	61.7	1.81	18.5	123	283	0.278	26.9	<1	25.4	553
TPE1102	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.09	9.26	<0.02	13.9	21.2	16.4	<0.14	25.7	1.06	13.8	72.2
TPE1102	1.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.16	5.75	0.115	19.6	14.8	21.2	<0.14	22.4	<1	20.3	52.3
TPE1178	0.20-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.51	85.3	2.29	13.3	169	179	<0.14	36.6	1.43	16.7	415
TPE1178	1.00-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.9	10.6	0.271	21.7	35.8	23.4	<0.14	18.9	<1	27.5	64
TPE1178	1.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.67	10.1	<0.02	15.4	19.8	28	<0.14	28.9	1.01	17	191
TPE1183	0.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.54	12.1	0.265	13.8	33	20.9	<0.14	14.1	<1	16.1	51.1
TPE1183	1.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.17	9.33	0.0465	14.6	18	14.1	<0.14	29.8	<1	15.9	68.5
TPE1184	0.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	5.99	11.8	0.149	12.1	12.1	12.5	<0.14	12.4	<1	12.8	35.5
TPE1184	1.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	6.64	10.7	<0.02	14.8	20.1	16.8	<0.14	29.2	<1	17	78.9
TPE1184	2.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	6.77	19.8	0.183	15	50	26.4	<0.14	29.2	<1	16.6	97
TPE1259	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	9.01	14.9	0.271	14	46.5	67.1	<0.14	31.3	<1	19.6	189
TPE1259	1.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	8.7	16.9	0.191	19	92.4	39	<0.14	32	<1	22.4	220
TPE1260	0.50-	140930-86	24/09/2014	30/09/2014	16/10												

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP1751	0.50	150214-75	11/02/2015	14/02/2015	23/04/2015	-	6.83	22.7	0.76	14.2	40.6	75.6	0.162	25.5	264
IP1751	1.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	7.06	9.28	0.284	10.1	12.4	26.2	<0.14	21.7	103
IP1752	0.50	150214-75	11/02/2015	14/02/2015	23/04/2015	-	7.84	41.3	2.11	35.5	132	466	<0.14	26.3	1430
IP1752	1.50	150214-75	11/02/2015	14/02/2015	03/03/2015	-	7.34	7.36	0.274	10.4	14.4	45	<0.14	19.5	117
IP1752	2.50	150214-75	11/02/2015	14/02/2015	03/03/2015	-	7.31	6.91	0.249	10.7	8.51	11.2	<0.14	24.4	59.6
IP2106	0.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	6.42	27.3	0.889	31.5	77.5	361	<0.14	22.9	151
IP2106	1.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	7.41	9.23	0.284	11.8	17.6	28.2	<0.14	18	12.5
IP2603	0.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	9.74	11.7	0.377	8.79	31.8	27.6	<0.14	29.2	13
IP2603	1.50	150214-75	11/02/2015	14/02/2015	02/03/2015	1.2	6.95	9.09	0.259	16.4	14.4	15.3	<0.14	21.5	18.7
IP1567	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	7.26	25.3	0.331	10.8	41.6	11.3	<0.14	27	26.8
IP1567	2.00	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.5	34.8	0.857	14.4	252	78.6	1.46	64.2	43.7
IP1567	3.50	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.34	19.4	0.341	14	39.8	15.5	<0.14	23.4	19
IP1573	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	5.08	20.3	0.719	20.3	37.9	599	0.141	32.8	16.3
IP1576	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	70.5	6.69	37.7	0.526	11.1	73.4	22.6	<0.14	42.3	1.16
IP1576	2.00	150221-57	17/02/2015	21/02/2015	12/03/2015	-	7.32	23.6	0.237	12.6	42.4	21.1	0.43	30.6	<1
IP1576	3.50	150221-57	17/02/2015	21/02/2015	12/03/2015	-	6.46	50.5	2.49	17.9	267	14300	19.7	76.7	<10
IP1577	0.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	8.75	98.2	0.347	12.4	58.5	27.3	<0.14	30.5	<1
IP1577	1.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	8.1	54.3	0.425	18.4	116	23.4	0.339	46.6	<1
IP1577	2.50	150221-73	18/02/2015	21/02/2015	16/03/2015	85.9	7.28	144	<0.02	7.98	35.4	21.9	<0.14	26	<1
IP1577	3.50	150221-73	18/02/2015	21/02/2015	12/03/2015	-	7.15	57.8	0.497	14.7	46.3	19.6	<0.14	31.7	<1
IP1578	0.50	150221-73	18/02/2015	21/02/2015	13/03/2015	-	7.23	54.7	0.319	8.73	38.4	4130	<0.14	20.7	<1
IP1578	1.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.54	70.3	0.404	14.6	69.2	32.8	<0.14	45.8	<1
IP1578	2.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.63	20.8	0.245	14.9	64.3	10.2	<0.14	33.7	<1
IP1578	3.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.2	28.8	<0.02	12.2	32.8	12.8	<0.14	21.9	<1
IP1578	4.30	150221-73	18/02/2015	21/02/2015	16/03/2015	-	9.36	15.9	0.85	18.1	29.4	17.1	<0.14	28.8	<1
TPE0737	0.50	150221-73	18/02/2015	21/02/2015	16/03/2015	43.3	8.2	28.8	1.1	15.5	75.8	127	0.157	31.7	<1
TPE0739	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	6.86	38.6	1.86	21.2	80.1	76.7	<1.4	63.3	<10
TPE0739	2.00	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.08	55.9	1.89	24.2	107	71	<1.4	74	<10
TPE0739	3.50	150221-57	17/02/2015	21/02/2015	12/03/2015	-	6.75	30.9	1.08	14.6	84.2	145	0.45	43.2	<1
IP1570	0.50	150302-28	26/02/2015	02/03/2015	26/03/2015	-	9.78	13.6	0.145	13	37.1	67.3	0.296	18	<1
IP1570	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.14	22.2	0.435	13.3	63.1	25.7	0.517	42.6	<1
IP1570	2.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.73	36.7	0.792	15.1	105	231	<0.14	46.9	<1
IP1907	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.32	11.2	<0.02	12.8	31.5	53.4	<0.14	23.4	<1
IP1907	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.16	7.76	0.488	12.5	17.5	13.9	<0.14	34.7	<1
IP1918	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	2.91	5.6	9.19	1.35	12.1	18.1	14.1	<0.14	29	<1
IP1918	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	5.87	7.12	0.455	11.8	12.8	11.9	<0.14	27	<1
IP2093	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	22.2	4.76	120	1.51	28.8	68.8	107	<0.14	78	<10
IP2093	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	5.07	12.1	0.406	18.6	15.2	13.5	<0.14	21.2	<1
IP2599	0.50	150302-28	26/02/2015	02/03/2015	25/03/2015	7.4	10.1	9.72	<0.02	10.5	24.2	36.1	<0.14	23.7	<1
IP2599	1.50	150302-28	26/02/2015	02/03/2015	25/03/2015	-	10.9	10.3	<0.02	9.87	29.6	33	<0.14	28.8	<1
IP2599	2.50	150302-28	26/02/2015	02/03/2015	23/03/2015	-	8.02	12.3	0.469	16.9	12.1	19	<0.14	16.9	<1
IP2599	3.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.78	5.65	0.308	7.88	12.1	9.99	<0.14	15	<1
IP2599	4.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.95	7.47	0.401	13	12.6	12.6	<0.14	23.3	<1
IP1663	0.50	150304-83	02/03/2015	04/03/2015	31/03/2015	-	8.18	45.9	1.74	14.8	259	143	15.6	212	<1
IP1663	1.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	7.75	27.6	0.763	18.9	96.9	147	1.19	35.8	<1
IP1663	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	6.52	4.78	112	4.3	15.2	356	188	<0.14	29.7	1.38
IP1663	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	7.47	7.52	0.433	10.9	14.7	17.1	<0.14	19.6	<1
IP1664	0.50	150304-83	02/03/2015	04/03/2015	31/03/2015	24	7.53	26.3	1.61	30.9	214	327	0.454	68.5	<1
IP1664	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	5.48	274	5.65	88.2	218	51.6	<1.4	206	<10
IP1664	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.67	129	3.9	63.2	456	262	<1.4	124	<10
IP1664	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.61	9.01	0.431	11.2	17.2	17.1	<0.14	22.9	<1
IP1665	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	5.6	24	1.84	19.7	45.4	32.8	<0.14	30.3	<1
IP1665	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.65	9.39	<0.02	12.1	20.7	25.5	<0.14	24.6	<1
IP1665	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.33	6.41	0.55	10.5	8.88	8.91	<0.14	26.4	<1
IP1665	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.36	8.3	0.0516	10.7	16.5	14.9	<0.14	24.1	<1
IP1930	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.34	8.48	1.36	13	16.2	13.1	<0.14	23.2	<1
IP1930	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.29	8.58	0.499	11.5	14.7	14.2	<0.14	24.3	<1
IP1930	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	5.99	9.75	0.503	11.7	17.1	17.7	<0.14	28.2	<1
IP2487	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.23	70.9	2.94	9.84	241	266	0.595	30.6	<1
IP2487	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	7.06	8.62	<0.02	12.6	12.3	14	<0.14	19.8	<1
IP2487	2.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.36	5.9	<0.02	9.93	10.2	9.83	<0.14	23.6	<1
IP2878	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.99	8.66	2.37	20.2	30.3	22.1	<0.14	41.6	<1
IP2878	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.81	7.83	0.411	12.1	12.8	12	<0.14	21.7	<1
IP2878	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.24	8.75	0.416	14.2	14.4	12.4	<0.14	24.8	<1
TPE0837	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	5.7	12.1	0.458	15.2	24.4	23	<0.14	23.9	<1
TPE0837	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	5.05	5.49	<0.02	9.53	13	8.84	<0.14	18.9	<1
TPE0837	2.50	150304-83	02/03/2015	04/03/2015	28/03/2015	-	5.77	7.34	0.479	11.4	14	29	<0.14	23	<1
IP2770	0.50	150326-103	23/03/2015	26/03/2015	24/04/2015	-	7.36	232	2.5	15.7	543	1200	<0.14	29.1	<1
IP2770	1.50	150326-103	23/03/2015	26/03/2015	24/04/2015	-	6.4	26.3	0.528	13.3	83.3	134	<0.14	21.6	<1
IP2770	2.50	150326-103	23/03/2015	26/03/2015	24/04/2015	-	6.79	5.33	0.239	12.1	15.2	11.7	<0.14	19	<1
IP2770	3.50	150326-103	23/03/2015	26/03/2015	24/04/2015	-	6.97	6.95	0.268	10.8	14.6	12.6	<0.14	21.1	<1
IP2770	4.50	15													

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP2005	0.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	2.41	5.42	3.6	<0.02	14.5	12.9	10.9	<0.14	18.2	18.3	41.3	
IP2005	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	5.31	11.1	<0.02	20.6	20.8	22.5	<0.14	34.9	<1	26.5	85.7
IP2005	2.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	7.99	31.8	0.633	14.9	89.6	94	<0.14	29.9	1.13	19.8	266
IP2006	0.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	5.67	5.55	0.0437	14.5	9.57	13.7	<0.14	20.5	<1	16	51.7
IP2006	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	7.14	84.6	3.85	15	141	206	<0.14	35.3	1.95	21.8	339
IP2007	0.50-	141121-129	18/11/2014	21/11/2014	13/12/2014	-	6.79	14.9	1.02	8.88	19.9	23.3	<0.14	27.8	3.01	11.8	72.1
IP2007	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	4.55	5.1	<0.02	23.5	9.01	21.3	<0.14	27.2	<1	35.5	49.1
IP2007	2.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	5.27	7.32	<0.02	11.4	11.5	10.9	<0.14	26	<1	12.6	71.5
IP 1924	0.80-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	5.6	11.2	0.456	12.5	22.2	14.7	<0.14	19.4	<1	13.5	75.3
IP 1924	2.00-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	6.87	8.12	0.487	12.8	16.7	14.1	<0.14	26.8	<1	14.9	77.5
IP 1843	0.50-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	6.69	31	0.936	17.7	55.4	37.7	<0.14	17	<1	26.6	141
IP 2203	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	4.43	7.94	18.9	0.897	16.3	104	185	0.761	27.6	<1	31	309
IP 2678	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	7.38	30.1	1.22	18.3	103	178	<0.14	27.2	<1	27.5	692
IP 2678	1.50-	140828-42	22/08/2014	28/08/2014	07/09/2014	-	6.54	9.86	0.47	16.3	10.3	10.7	<0.14	16.7	<1	17.4	56.5
IP2096	0.30-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	6.99	30	0.491	16.4	54	71.2	<0.14	23.7	1.28	21.3	124
IP2096	1.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.51	21.9	0.515	6.16	21.2	7.16	0.167	4.7	<1	8.47	35.6
IP2096	2.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.41	17.2	0.512	6.27	18.3	6.07	<0.14	4.03	<1	10.5	36.1
IP2096	3.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.53	6.85	<0.02	11.7	9.84	10.7	<0.14	24.9	<1	10.8	58.3
IP2097	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	7.37	15.8	0.234	16.3	30.2	63.7	<0.14	43.3	1.12	18	123
IP2097	1.50-	141007-35	02/10/2014	07/10/2014	22/10/2014	-	5.08	7.14	<0.02	14.3	13.4	14.5	<0.14	34.7	<1	13.9	66.8
IP2097	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.79	7.03	0.189	7.99	6.9	9.64	<0.14	20.5	<1	8.32	53.3
IP2098	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	8.4	8.36	0.312	15.3	12.6	45.3	<0.14	41.3	<1	14.4	107
IP2098	1.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.13	13.8	0.468	17.3	14.3	8.89	<0.14	28	<1	22.6	85.9
IP2098	2.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	6.15	7.79	<0.02	11.9	10.9	7.31	<0.14	26.3	<1	12.8	65.3
IP2099	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	6.84	30.1	0.554	17.6	55.6	65	<0.14	21.4	1.55	23.2	162
IP2099	1.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.85	10.6	<0.02	14.9	15.9	19.9	<0.14	22.2	<1	16	84.2
IP2099	2.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.55	7.39	<0.02	11.2	10.9	10.7	<0.14	20.8	<1	10.1	68.5
IP2100	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	1.86	6.7	21.2	0.507	16.4	36.3	32.8	<0.14	19.8	1.61	20.4	121
IP2100	1.10-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.86	16	0.0327	16.7	14.4	16.1	<0.14	14.5	<1	28.1	48.2
IP2100	1.70-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.66	7.75	0.0541	14.4	16.3	18.3	<0.14	16.5	<1	18.3	44.8
IP2100	2.90-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.68	6.63	0.0934	11.2	12.2	10.9	<0.14	20.4	<1	11.5	63
IP2104	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	8.72	23.4	0.257	16.4	49.2	140	0.369	34.2	<1	23	242
IP2104	1.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.85	9.95	<0.02	14.4	22.3	15.3	<0.14	25.6	1.18	13	83.9
IP2104	2.00-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	7.69	105	0.898	6.55	38.8	127	<0.14	30.6	<1	43.9	288
IP2193	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	1.72	7.93	20.3	0.355	14.6	37.4	36.6	<0.14	21.3	1.8	19.2	127
IP2193	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	4.86	7.6	0.0722	14.7	14.4	14.1	<0.14	20.1	<1	16.5	64.4
IP2193	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.29	7.26	<0.02	11.6	11.5	11.9	<0.14	25	<1	10.9	66.2
TPE1007	0.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	3.21	7.7	22.5	1.01	16.1	55.6	89.2	<0.14	19.2	1.4	20.7	657
TPE1007	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.22	8.77	<0.02	13.6	15.1	18.1	<0.14	18.4	<1	15.1	65.6
TPE1007	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.54	6.46	<0.02	11	9.74	10	<0.14	23.5	<1	10.1	55.5
TPE1008	0.60-	141007-35	02/10/2014	07/10/2014	17/11/2014	-	5.99	26.7	0.247	14.8	92.9	199	0.714	31.1	<1	34	189
TPE1008	1.60-	141007-35	02/10/2014	07/10/2014	26/10/2014	3.74	5.46	13.3	0.0866	12.7	10	17.7	<0.14	11.6	<1	16.1	62.1
TPE1010	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	6.57	118	1.26	18	177	301	1.08	36.5	2.83	25.2	184
TPE1010	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	1.31	5.1	14	<0.02	20.9	14	15.5	<0.14	21.6	<1	18.1	80.5
TPE1010	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.43	7.69	0.233	13.9	11.3	12.6	<0.14	24.2	<1	12.6	67.4
IP2094	0.40-	141009-111	09/10/2014	17/11/2014	-	-	8.85	40.3	0.168	11.4	34.5	45.3	0.926	15.1	<1	16.4	145
IP2094	1.40-	141009-111	09/10/2014	26/10/2014	-	-	4.75	4.89	0.123	17.4	10.9	13.9	<0.14	20.2	<1	21.2	45.6
IP2094	2.40-	141009-111	09/10/2014	26/10/2014	-	-	6.72	343	31.2	18.6	371	342	0.315	120	1.69	27.8	2350
IP2095	0.50-	141009-111	09/10/2014	25/10/2014	2.45	7.83	15.1	0.436	12.2	83.4	34.2	<0.14	23.6	<1	14.7	256	
IP2095	1.50-	141009-111	09/10/2014	26/10/2014	-	-	6.41	30.4	1.06	12.8	63.6	36.5	0.51	22.2	<1	25.8	112
IP2095	2.50-	141009-111	09/10/2014	26/10/2014	-	-	5.87	8.27	<0.02	16.6	20.8	17.1	<0.14	32.7	<1	19	88.4
IP2101	0.40-	141009-111	09/10/2014	25/10/2014	-	-	7.37	11	0.627	15.5	21.1	28.7	<0.14	24.1	<1	17.4	95.6
IP2101	1.50-	141009-111	09/10/2014	26/10/2014	-	-	5.71	10.5	0.14	15.8	29	19.7	<0.14	32	<1	18.3	105
IP2101	2.50-	141009-111	09/10/2014	26/10/2014	-	-	5.94	12.2	0.24	13.9	8.38	14.2	<0.14	24.1	<1	19.5	63.2
IP2102	0.30-	141009-111	09/10/2014	25/10/2014	-	-	7.99	20.6	0.691	14.8	48.4	71.6	<0.14	21.2	<1	19.3	215
IP2102	1.25-	141009-111	09/10/2014	26/10/2014	-	-	5.96	89.5	9.07	5.33	75.1	26.9	0.14	42.1	2.19	4.58	484
IP2102	1.60-	141009-111	09/10/2014	24/10/2014	-	-	-	14.6	0.42	15.1	22.6	16.6	<0.14	34	<1	16.8	84.2
IP2102	2.60-	141009-111	09/10/2014	26/10/2014	1.62	5.48	8.16	0.202	12.2	12.9	12.7	<0.14	25.4	<1	12.7	66	
IP2103	0.30-	141009-111	09/10/2014	25/10/2014	-	-	8.52	19.9	0.494	17.5	48.8	106	<0.14	32.2	<1	20.9	366
IP2103	1.00-	141009-111	09/10/2014	25/10/2014	-	-	5.03	6.1	0.115	16.6	19.6	20.9	<0.14	19.8	<1	22.7	42.2
IP2103	1.50-	141009-111	09/10/2014	25/10/2014	-	-	5.66	107	2.66	5.71	777	276	0.242	26.1	2.31	9.05	195
IP2103	2.50-	141009-111	09/10/2014	26/10/2014	-	-	4.94	12	<0.02	13.3	16.5	13.8	<0.14	32.9	<1	13.9	72.1
IP2192	1.00-	141011-9	11/10/2014	28/10/2014	-	-	7.72	22	0.512	14.7	48.4	44.6	<0.14	20.9	1.05	19.5	140
IP2192	1.40-	141011-9	11/10/2014	28/10/2014	-	-	5.39	455	4.99	6.66	744	289	<0.14	10.7	1.8	8.83	263
IP2192	2.00-	141011-9	11/10/2014	28/10/2014	-	-	5.67	6.37	0.113	14.2	13.6	13.6	<0.14	22.8	<1	16.2	63.2
IP2192	3.00-	141011-9	11/10/2014	28/10/2014													

Monitor Phase 58

Excavate

		Soil Organic Matter (SOM)																pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
Commercial Deep 1%																												
ate	Complete	%	pH Units	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	mg/kg	mg/kg							
3/11/2014	-	7.07	42.5	1.52	37	350	573	2.37	57.7	<1	134	897																
8/10/2014	-	7.06	39.7	1.26	25.9	173	643	1.43	31.9	<1	58.7	903																
7/10/2014	-	7.92	10.3	0.0771	13	19.5	26.4	<0.14	22.5	<1	14.8	107																
3/11/2014	-	7.68	52	1.58	73.8	308	895	2.07	54.2	<1	60.3	1290																
7/10/2014	-	6.75	9.99	0.178	14.6	21.3	44.5	<0.14	25.1	<1	15.7	101																
2/11/2014	12.1	7.8	93	1.71	56.7	307	175	1.34	45.3	<1	45	677																
7/10/2014	-	6.88	24	0.792	30.9	95.1	259	0.508	40.1	<1	34.5	<19																
3/11/2014	-	7.87	52.5	1.66	51.8	282	1390	2.14	54	<1	61.6	1320																
7/10/2014	-	7.7	14.2	0.0494	16.5	76.4	70.2	<0.14	24.4	<1	17.9	221																
2/11/2014	-	7.6	59.4	2.35	71	468	1230	3.12	66.2	<1	53.1	1780																
8/10/2014	-	6.96	28.8	1.31	24.3	87.7	251	<1.4	39	<10	27.1	512																
8/10/2014	-	8.98	12.9	0.435	20.4	32.9	27.2	<0.14	72.7	<10	52.7	97.4																
7/10/2014	-	6.8	11.9	0.0887	14.9	18.5	20.7	<0.14	28.6	<1	16.9	94.1																
2/11/2014	-	6.97	54	1.38	13.5	114	256	<0.14	21	<1	23.2	420																
7/10/2014	-	5.18	7.1	0.262	11.7	12.6	17.8	<0.14	20.6	<1	12.5	65.8																
7/10/2014	0.984	6.89	8.67	0.157	13.6	13.4	18.9	<0.14	26.2	<1	13.4	72.9																
7/10/2014	-	6.68	15.5	0.38	19	14.2	28	<0.14	16	<1	24.6	132																
7/10/2014	-	5.32	6.58	<0.02	11.5	9.89	11.4	<0.14	24.2	<1	9.71	56.5																
7/10/2014	-	6.56	7.85	<0.02	13.5	10.8	13.1	<0.14	24.6	<1	11	61.5																
2/11/2014	2.22	6.03	12.3	0.253	13.6	19.9	24	<0.14	14.5	<1	16.7	76.3																
7/10/2014	-	6.07	7.69	0.102	11.2	12.4	12.3	<0.14	21.6	<1	12.1	61.6																
2/11/2014	8.52	7.58	19.6	0.475	14.4	68.3	87.3	0.464	35.5	<1	24	250																
7/10/2014	-	8.57	206	2.62	15	550	1430	<0.14	32.1	<1	19.4	4130																
8/10/2014	-	6.67	9.48	<0.02	16.2	24.7	20.5	0.352	34.4	<1	18.1	85.1																
7/08/2014	-	5.93	9.13	0.289	11.5	16.4	14.4	<0.14	19.4	<1	13.5	55.6																
9/08/2014	-	7.57	7.08	0.308	9.76	11.7	15.7	<0.14	20.5	<1	11.2	68.1																
9/08/2014	-	7.86	16.2	1.67	15.6	49.9	433	0.238	23.1	<1	20.2	206																
9/08/2014	-	8.06	145	4.1	15.4	770	4890	<0.14	35.4	<1	20	6720																
2/12/2014	-	8.23	117	2.33	23.7	3220	1120	5.82	91.1	<10	49.1	3970																
12/12/2014	-	6.12	58.8	1.79	14.8	148	78.7	<0.14	21.4	<1	21.1	206																
12/12/2014	-	5.64	18.9	0.643	17.4	37	32.8	<0.14	16.6	<1	23.9	117																
12/12/2014	-	6.14	6.04	0.524	13.1	14.8	14.8	<0.14	28.3	<10	15.4	71.5																
2/12/2014	-	8.85	51.6	2.69	20.6	175	1310	0.595	33.3	1.72	40.6	3100																
12/12/2014	-	5.04	89.3	4.13	20.4	416	283	0.566	36.7	1.59	27.6	549																
1/12/2014	-	6.83	7.07	<0.02	9.18	14.5	14.1	<0.14	18.1	<1	10.3	70.1																
2/12/2014	6.96	6.9	42.1	1.76	14.8	275	193	0.273	45.4	1.93	105	614																
2/12/2014	-	5.67	21.2	0.628	13.8	72.3	62.2	<0.14	29.1	<1	34.7	196																
2/12/2014	2.14	5.23	7.53	0.222	13.6	10.7	13.5	<0.14	14.4	<1	16.7	57.8																
1/12/2014	-	5.19	10.3	0.157	11.5	10.3	11.2	<0.14	25.4	<1	12.6	61.9																
1/12/2014	3.45	4.79	4.93	0.0476	13.9	20.6	13.5	<0.14	26.5	<1	16.9	76.7																
2/12/2014	1.41	6.24	9.8	0.0742	12.1	14.3	14.5	<0.14	26.4	<1	13.1	71.1																
0/07/2014	-	7.56	55.1	1.47	16.5	78.6	183	<0.14	22.7	<1	19.3	463																
0/07/2014	2.21	6.6	9.64	0.132	22.3	15.3	15.7	<0.14	20.4	<1	26.8	56.1																
0/07/2014	-	7.48	11.2	0.2	15.7	25.4	34.2	<0.14	20.6	<1	17.7	92.8																
0/07/2014	-	6.36	6.82	0.0664	11.8	11.4	12.9	<0.14	22.1	<1	12.4	53.5																
7/12/2014	-	7.19	35.6	1.79	13.4	85.5	103	<0.14	44.7	<10	25.6	249																
2/12/2014	-	6.93	25.8	0.679	16	54.3	30	<0.14	18.1	<1	20.6	96																
2/12/2014	-	5.83	15.5	0.602	16	14.6	15.6	<0.14	15.6	<1	20.5	78.9																
2/12/2014	2.65	6.06	15	0.129	14.4	22.2	16.5	<0.14	24	<1	16.3	64.9																
2/12/2014	-	6.27	7.06	0.147	15.4	20.5	15.8	<0.14	37	<1	15.3	91																
9/10/2014	-	8.5	8.61	0.462	10.2	18.9	33.7	<0.14	10.7	<1	15.5	71.3																
9/10/2014	-	7.32	23.4	1.28	36.2	277	273	0.829	34.8	<1	50.8	388																
9/10/2014	-	6.7	9.09	0.36	11.7	12.9	23.8	<0.14	16.5	<1	14.2	55.1																
0/09/2014	-	6.69	54.4	1.57	14.9	125	66.5	<0.14	21.4	<1	22.4	171																
0/09/2014	7.29	5.9	35.5	1.32	14.2	83.3	57.5	<0.14	24	<1	22.6	171																
0/09/2014	-	5.95	5.59	0.416	9.74	9.96	9.31	<0.14	19.1	<1	9.96	55																
0/09/2014	-	5.9	7.05	0.508	11.7	13.6	13.9	<0.14	23.8	<1	13.4	72.3																
0/09/2014	-	5.84	9.02	0.6	13	17.9	15.8	<0.14	23.8	<1	13	79.8																
9/10/2014	-	7.37	14.1	0.395	12.9	28.6	40.1	<0.14	22.4	<1	16.5	90.4																
9/10/2014	-	5.51	20.6	0.591	14.7	35.4	34	0.18	23.2	1.22	17.8	93.3																
9/10/2014	-	6.94	9.57	0.245	12.7	16.1	15.2	<0.14	20.7	<1	14.7	59.2																
7/10/2014	-	8.03	22.8	0.787	14.8	61.9	133	<0.14	25.2	<1	17.7	262																
7/10/2014	5.17	7.69	30.6	0.715	13.4	68.2	564	<0.14	24.5	<1	24.5	353																
7/10/2014	-	6.86	10.4	0.192	17.5	18.2	35.5	<0.14	21.4	<1	20.3	68.1																
7/10/2014	-	6.07	8.84	0.0668	13	18.4	78.5	<0.14	25	<1	14.5	77.4																
7/10/2014	-	7.07	11.1	0.0944	13.3	19.2	54.7	<0.14	25.6	<1	14.5	100																
7/10/2014	-	6.33	8.42	0.108	14	16.1	17.3	<0.14	31.2	<1	14.7	65.5																
7/10/2014	6.53	7.33	40.3	1.15	24.3	114	280	<0.14	35.4	<1	25.9	419																
7/10/2014	-	6.39	16	0.976	21.1	29.9	17.4	<0.14	22.4	<1	26.8	155																
7/10/2014	-	6.19	11.8	0.194	16.4	22	40.5	<0.14	23.2	<1	19.2	102																
7/10/2014	-	5.43	12.5	0.0202	34.8	26	32.4	<0.14	27.6	<1	16.8	91.4																
7/04/2015	1.68	7.69	27	1.41	12.4	89.5	66.2	<0.14	23	<1	17.6	214																
4/04/2015	-	7.29	7.62	0.473	14.3	12.8	13.2	<0.14	24.9	<1	15.8	55.1																
4/04/2015	-	6.62	5.29	0.407	14.6	9.55	10.8	<0.14	21	<1	12.5	44.5																
4/04/2015	-	6.58	7.31	0.411	14.7	11	12.5	<0.14	20.5	<1	14.4	52																
4/04/2015	-	7.03	8.56	0.496	12.1	15.8	16.2	<0.14	22.5	<1	13.8	62.8																
4/04/2015	-	8.08	26.6	2.9	16.3	73.4	197	<0.14	28	<1	19.1	298																
5/05/2015	2.21	5.56	24.7	0.285	11.9	18	16.8	<0.14	22.2	<1	13	60.7																
5/05/2015	-	6.44	20.5	0.659	15.8	35	26.3	<0.14	16.5	<1	21.5	90.6																
5/05/2015	-	5.62	7.93	1.12	14.9	<14	14.6	<1.4	45	<10	21.9	66.4																
5/05/2015	-	6.45	6.65	<0.02	11.7	12.4	11.3	<0.14	27	<1	8.76	68																
5/05/2015	2.83	5.7	19.7	0.574	14.2	38.4	34	<0.14	16.8	<1	22.5	81.1																
5/05/2015	-	6.77	9.65	0.351	11	22.3	16.8	<0.14	29.5	<1	13.2	77.3																
5/05/2015	-	6.14	10	<0.02	12.7	19	16.2	<0.14	21.8	<1	15.7	48.7																
5/05/2015	-	6.16	8.86	0.531	12.8	21.5	15.8	<0.14	28.2	<1	16.1	83.7																
5/05/2015	-	6.87	7.02	<0.02	12	13.2	10.5	<0.14	27.6	<1	9.86	73.9																
5/05/2015	-	5.13	13.9	0.678	9.33	<14	18.2	<1.4	24.3	<10	12.3	63.1																
5/05/2015	-	5.12	8.39	0.468	8.05	10.1	12.1	<0.14	15.7	<1	10.5	42.4																
5/05/2015	-	5.44	24.3	0.69	9.75	34.6	46.9	<0.14	21	<1	11.8	92.5																
5/05/2015	-	6.24	6.5	0.425	12.6	11.4	11.9	<0.14	26.9	<1	12	59.3																
5/05/2015	9.95	7.9	37.8	1.37	12.7	75.6	166	<0.14	24.6	<1	22	242																
5/05/2015	-	5.68	6.53	<0.02	13.4	17	13.5	<0.14	26.9	<1	12.7	82.2																
5/05/2015	-	7.21	11.3	0.838	13.7	28.1	34.3	<0.14	27.6	<1	15.5	117																
5/05/2015	-	5.65	8.99	0.218	20.1	11.8	10.5	<0.14	18.4	<1	24.2	49.2																
5/05/2015	-	6.36	8.52	<0.02	13.1	19.4	14.4	<0.14	24.7	<1	12.5	71.7																
5/05/2015	-	6.64	6.2	<0.02	14.7	12.1	13.8	<0.14	29	<1	12.6	86.5																
5/05/2015	-	7.75	30.1	1.43	13.2	71.7	97.2	<0.14	24.1	<1	16.9	238																
5/05/2015	-	5.66	5.28	0.581	11.6	12	16.2	<0.14	9.59	<1	8.29	53.9																
5/05/2015	-	5.94	7.18	0.559	18.8	11.7	18.2	<																				

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		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
		Commercial		Deep 1%													
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP2485	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	8.31	305	10.4	23	5460	3450	<1.4	50.9	<10	40.5	12700
IP2679	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	2.81	6.32	15.9	0.507	12.9	58.2	34.3	<0.14	18.1	<1	15.9	88.2
IP2679	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	7.25	8.37	0.605	12	20.6	17.2	<0.14	24	<1	13.8	75.2
IP2679	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	7.33	6.73	<0.02	11.7	12.7	12.4	<0.14	23.2	<1	1.29	54.3
TPE0911	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	5.6	13.2	0.421	14.3	23.9	29.6	<0.14	23.3	<1	18	77.8
TPE0911	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	6.59	10.2	0.728	14.4	18.8	15.3	<0.14	28.8	<1	16.2	72.1
TPE0911	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	6.48	8.56	0.798	12.3	11.6	12.7	<0.14	29.6	<1	13.5	69.7
IP1753	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	6.06	47.9	2.42	17	128	243	<0.14	24.4	<1	17.9	1280
IP1753	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.77	11.4	0.594	12.9	22.7	37.8	<0.14	22.8	<1	13.9	127
IP1753	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.93	7.02	0.542	8.35	7.77	9.79	<0.14	20.9	<1	8.05	55.1
IP1753	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.03	5.93	0.348	8.38	9.01	10.5	<0.14	20.2	<1	9.09	53
IP2858	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	2.48	8.21	21.5	1.23	13	38.9	26.1	<0.14	15.4	<1	19.1	113
IP2858	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.79	18.5	0.636	13.7	29.9	101	<1.4	25.4	<10	15.5	161
IP2858	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.81	9.74	<0.02	14.1	16.1	22.4	<0.14	22	<1	13.5	69.9
IP2858	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.42	8.3	0.32	11.8	16	28.2	<0.14	21.3	<1	12.9	83.4
IP2858	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.85	7.94	0.346	13.4	15.5	19.4	<0.14	23.8	<1	14.9	65.6
IP2876	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	9.4	8.54	12.6	0.599	13	43.4	41.4	<0.14	36.1	<1	14	200
IP2876	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.67	23.6	0.701	12.9	90.1	40.2	<0.14	37.5	<1	15.5	250
IP2876	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	8.23	16.3	0.682	12.6	85.7	44.9	<0.14	29	<1	13.9	190
TPE1335	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	6.63	8.12	0.518	16.1	13.2	14.1	<0.14	23.6	<1	15.6	96.4
TPE1335	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.62	9.93	<0.02	16.8	19.2	14	<0.14	22.9	<1	17.3	50.3
TPE1335	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.1	8.2	0.261	15.8	14.1	12.4	<0.14	22.7	<1	16.9	50.9
TPE1335	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	5.77	7.92	0.268	15.4	12.4	19.1	<0.14	23.3	<1	16.4	60.4
TPE1335	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.29	7.6	<0.02	15.5	15.2	14.5	<0.14	22	<1	15.4	55.9

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Monitor Phase 58					Commercial Deep 1%										Aliphatics >C10-C12										Aliphatics >C12-C16										Aliphatics >C16-C21										Aliphatics >C21-C35										Aliphatics >C35-C44										Aliphatics >C5-C6										Aliphatics >C6-C8										Aliphatics >C8-C10										Aromatics >EC10-EC12										Aromatics >EC12-EC16										Aromatics >EC16-EC21										Aromatics >EC21-EC35										Aromatics >EC35-EC44										Aromatics >EC40-EC44										Aromatics >EC5-EC7										Aromatics >EC7-EC8										Aromatics >EC8-EC10										Benzene										Ethylbenzene										GRO Surrogate % recovery**										GRO TOT (Moisture Corrected)										Methyl tertiary butyl m,p-Xylene ether (MTBE)										o-Xylene										sum of detected BTX by GC										detected mpo xylene by GC										Aliphatics & Aromatics >C5-C44										Total Aliphatics >C12-C44										Total Aromatics >EC12-EC44																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Monitor Phase 58

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Monitor Phase 58						Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	Methyl tertiary butyl ether (MTBE)	sum of detected mpo xylene by GC	detected mpo xylene by GC	Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44						
Excavate						Commercial Deep 1%										710006170005470005000										389000												
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg				
TPE1172	4.00-	140710-62	08/07/2014	10/07/2014	22/10/2014	172000	1030000	877000	686000	160000	33800	381000	249000	114000	171000	247000	337000	142000	57500	968	<200	166000	µg/kg	µg/kg	<60	118	1120000	<120	<100	<60	968	<180	<40	4770000	2760000	896000		
TPE1176	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	<40	2300	38800	64000	15400	<40	<40	<40	<40	<100	8520	45300	19800	7380	<40	<40	<40	<40	<40	<12	87	<176	<24	<20	<12	<96	<36	<8	194000	120000	73600		
TPE1177	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	<40	1030	5790	32800	30100	<40	<40	<40	<40	<100	6740	44700	48200	21800	<40	<40	<40	<40	<40	<12	73	<176	<24	<20	<12	<96	<36	<8	169000	69600	99700		
TPE1188	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	<40	27100	246000	409000	83200	<40	<40	<40	<40	<40	3930	52800	267000	127000	52800	<40	<40	<40	<40	<40	<12	77	<176	<24	<20	<12	<96	<36	16.4	1220000	765000	451000	
TPE1188	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	117	53800	146000	164000	59600	<40	<40	<40	44.1	77.7	7260	41100	127000	68100	28400	<40	<40	<40	<40	<40	<12	90	321	<24	<20	<12	<96	<36	<8	667000	423000	243000	
TPE1189	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	626	8160	45500	81800	51100	<40	<40	<40	136	417	2270	12500	75700	46400	18700	<40	<40	90.4	<40	<40	<12	94	1290	<24	<20	<12	<96	<36	<8	325000	187000	137000	
TPE1189	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	293	3930	14800	44100	33800	<40	<40	<40	53.8	196	<100	3460	37900	33000	15100	<40	<40	<40	<40	<40	<12	95	610	<24	<20	<12	<96	<36	<8	172000	96600	74300	
TPE1189	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	58200	201000	71000	72500	19100	837	9670	19200	38800	204000	31900	54900	20000	8300	<40	<40	12800	<40	<40	<12	114	140000	<24	<20	<12	<96	<36	<8	813000	363000	311000		
TPE1189	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	51200	102000	29100	23100	6750	<40	1420	11000	34100	107000	17300	23300	<100	<100	<40	<40	<40	7320	<40	<40	<12	101	105000	<24	<20	<12	<96	<36	<8	414000	161000	148000	
TPE1190	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	72.8	4470	22500	85200	45100	<40	<40	<40	48.2	1810	8890	74700	40600	17300	<40	<40	<40	<40	<40	<12	15	217	<24	<20	<12	<96	<36	<8	283000	157000	126000		
TPE1190	1.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	72.4	<100	29500	147000	156000	<40	80.4	84.4	48.2	<100	10500	127000	95700	42100	<40	<40	153	<40	28.1	<40	<40	<12	69	470	45.6	<20	24.1	97.8	69.7	<8	567000	333000	233000
TPE1190	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	<40	14300	55500	154000	54700	<40	<40	<40	<40	<100	18200	171000	118000	51500	<40	<40	<40	<40	<40	<12	92	<176	<24	<20	<12	<24	<9	<8	585000	278000	307000		
TPE1190	3.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	149000	641000	218000	258000	66100	2280	42200	67600	99600	172000	59700	111000	45000	18400	<100	<100	45100	<100	<30	105	406000	<60	<50	<30	<240	<90	<20	1980000	1180000	388000			
TPE1192	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	29000	409000	360000	434000	129000	685	14700	25100	19300	48800	87200	176000	85000	35000	<40	<40	16700	<40	<40	<12	106	105000	<24	<20	<12	<96	<36	<8	1840000	1330000	397000		
TPE1192	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	45500	368000	359000	469000	143000	1010	28100	53300	30300	154000	180000	341000	145000	61800	93	<40	35500	93	<40	<12	123	194000	<24	<20	<12	<96	<36	<8	2350000	1340000	821000		
TPE1192	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	30400	289000	261000	228000	61100	58.2	6230	21900	20300	27000	48600	86800	48600	18300	<40	<40	14600	<40	<40	<12	108	93400	<24	<20	<12	<96	<36	<8	1140000	839000	211000		
TPE1253	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	136	4440	4280	26100	<100	<40	176	133	90.1	5900	7260	40100	20500	8210	<40	<40	94.6	<40	<40	<12	61	676	<24	<20	<12	<96	<36	<8	109000	34800	73800		
TPE1253	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	66500	558000	407000	271000	57200	212	3920	35500	44300	440000	166000	146000	46700	20200	58.8	<40	23700	58.8	<40	<12	120	174000	<24	<20	<12	<96	<36	<8	2270000	1290000	799000		
TPE1253	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	228000	832000	438000	262000	32400	2540	54000	118000	152000	190000																							

Monitor Phase 58

Excavate

Monitor Phase 58						Commercial Deep 1%										71000										617000	547000	5000	389000									
Excavate						Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	Methyl tertiary butyl m,p-Xylene ether (MTBE)	sum of detected mpo xylene by GC	detected mpo xylene by GC	Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44						
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg					
IP 2387	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	111	<100	<100	<100	<100	<40	88.8	74.4	74.4	<100	<100	<100	<100	<100	<100	<100	<100	<40	<40	48.8	<40	<12	77	408	<24	<20	<12	<24	<9	<8	407	<100	<100
IP 2388	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	<40	<100	4580	23400	9230	<40	<40	<40	<40	<100	1190	20100	13200	5980	<40	<40	<40	<40	<40	<40	<12	84	<176	<24	<20	<12	<96	<36	<8	71700	37200	34500	
IP 2388	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	<40	<100	<100	<100	<100	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	<40	<40	<12	95	<176	<24	<20	<12	<24	<9	<8	<100	<100	<100	
IP 2388	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	1000	<100	1840	15200	<100	<40	<40	324	668	<100	2280	20100	<100	<100	<40	<40	216	<40	<40	<40	<12	89	2260	<24	<20	<12	<96	<36	<8	41700	17000	22400	
IP 2390	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	<40	<100	<100	8840	<100	<40	<40	<40	<40	<100	5620	<100	<100	<100	<40	<40	<40	<40	<40	<40	<12	87	<176	<24	<20	<12	<96	<36	<8	14500	8840	5620	
IP 2390	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	128	<100	1990	3690	378	<40	76.4	121	85.5	464	1320	6370	3520	1590	<40	<40	90.1	<40	<40	<40	<12	88	512	<24	<20	<12	<96	<36	<8	18200	6060	11700	
IP 2392	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	<40	1690	16600	51300	11000	<40	<40	<40	<40	<100	4220	41700	23400	8440	<40	<40	<40	<40	<40	<40	<12	70	<176	<24	<20	<12	<24	<9	<8	150000	80600	69300	
IP 2486	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	138	15500	17400	60700	17700	<40	<40	61.2	91.2	4920	17600	114000	53200	18600	<40	<40	40.8	<40	<40	<40	<12	95	361	<24	<20	<12	<96	<36	<8	301000	111000	189000	
IP 2486	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	126	2580	1180	2350	<100	<40	75.6	93.2	84.4	528	1260	9550	5840	2200	<40	<40	61.7	<40	<40	<40	<12	98	456	<24	<20	<12	<24	<9	<8	23700	6110	17200	
IP 2486	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	87.6	<100	<100	<100	<100	<40	75.6	72	58.8	<100	<100	<100	<100	<100	<40	<40	52.8	<40	<40	<40	<12	94	359	<24	<20	<12	<24	<9	<8	359	<100	<100	
IP 2486	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014	56	841	726	950	<100	<40	<40	<40	<40	<100	1840	799	<100	<100	<40	<40	<40	<40	<40	<40	<12	100	<176	<24	<20	<12	<24	<9	<8	5310	2520	2630	
IP 2488	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	5360	202000	195000	258000	84000	<40	673	1730	3580	47100	101000	172000	67300	27400	<40	<40	1150	<40	<40	<40	<12	78	12500	<24	<20	<12	<96	<36	<8	1140000	738000	387000	
IP 2488	1.10	141003-69	29/09/2014	03/10/2014	19/10/2014	<40	<100	<100	<100	<100	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	<40	<40	<12	96	<176	<24	<20	<12	<96	<36	<8	<100	<100	<100	
IP 2489	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	28300	55700	54200	72300	21000	446	38700	44800	18900	16800	27100	56900	23300	9450	245	<40	29900	245	<40	<40	<40	<12	94	162000	<24	958	<12	245	<36	<8	489000	203000	124000
IP 2489	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	15200	27300	55900	116000	40100	<40	1210	6040	10200	2660	13600	84300	50400	20400	<40	<40	4030	<40	<40	<40	<12	93	36700	<24	<20	<12	<24	<9	<8	427000	239000	151000	
IP 2489	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	2280	8460	15500	34800	7980	<200	276	743	1520	3530	9030	44500	19400	7130	<200	<200	495	<200	<60	88	5390	<120	<100	<60	<24	<24	<9	<40	149000	66800	76400		
IP 2490	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	47100	297000	161000	8930	8930	<40	849	12800	31400	83400	59700	9790	2680	849	<40	<40	8510	<40	<40	<40	<12	93	101000	<24	<20	<12	<96	<36	<8	723000	467000	156000	
IP 2490	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	4220	50900	47400	19500	2110	<40	68.3	554	2810	12300	20300	22600	8660	3350	<40	<40	370	<40	<40	<40	<12	88	8050	<24	<20	<12	<96	<36	<8	192000	120000	63800	
IP 2490	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	913	290	511	<100	<100	<40	<40	170	608	<100	<100	284	<100	<100	<40	<40																	

Monitor Phase 58

Excavate

Monitor Phase 58					Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >E10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	Methyl tertiary butyl m,p-Xylene ether (MTBE)	sum of detected by GC	detected mpo xylene by GC	Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44						
Excavate					Commercial Deep 1%										71000										617000	547000	5000	389000									
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg			
IP2768	1.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	<200	500	1740	12700	2190	<200	<200	<200	<200	1350	3240	16500	4000	1420	<200	<200	<200	<200	<60	59	<880	<120	<100	<60	<24	<9	<40	42300	17100	25100		
IP2768	2.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	19100	39700	33700	83500	24700	<40	250	2460	12700	3600	7540	41100	17600	6420	<40	<40	1640	<40	<12	70	36300	<24	<20	<12	<24	<9	<8	288000	182000	69800		
IP2769	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	<40	2440	6760	30600	10300	<40	<40	<40	<40	847	4390	29600	10000	3770	<40	<40	<40	<40	<12	21	<176	<24	<20	<12	<24	<9	10.1	95000	50000	44900		
IP2769	1.00-	140927-29	22/09/2014	27/09/2014	23/10/2014	46	8170	112000	325000	87500	<40	57	80	<40	8040	86000	388000	180000	64200	<40	<40	60.3	<40	<12	63	281	<24	<20	<12	<24	<9	<8	1200000	533000	662000		
IP2774	0.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	<200	5110	34900	98900	34200	<200	<200	<200	<200	2300	13700	87300	43100	19000	<200	<200	<200	<200	<60	82	<880	<120	<100	<60	<24	<9	<40	319000	173000	146000		
IP2774	1.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	<40	9780	12600	13400	2990	<40	<40	<40	<40	2110	6130	11100	4520	1860	<40	<40	<40	<40	<12	108	<176	<24	<20	<12	<24	<9	<8	62700	38700	23900		
IP2776	1.00-	140930-86	24/09/2014	30/09/2014	16/10/2014	2940	177000	370000	1430000	537000	<200	204	1030	1960	8740	60600	436000	229000	94300	<200	<200	728	<200	<60	81	6930	<120	<100	<60	<24	<9	<40	3250000	2510000	735000		
IP2776	2.00-	140930-86	24/09/2014	30/09/2014	15/10/2014	198000	5000000	5000000	10600000	3110000	3760	130000	240000	132000	610000	1260000	2870000	1700000	623000	<200	<200	160000	<200	<60	78	865000	<120	<100	<60	<24	<9	<40	31000000	23700000	6440000		
IP2776	3.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	43900	2170000	2410000	1310000	176000	203	8080	28900	29300	173000	466000	435000	194000	71000	<40	<40	19300	<40	<12	75	130000	<24	<20	<12	<24	<9	<8	7470000	6070000	1270000		
IP2776	4.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	57600	1250000	1430000	783000	100000	80.5	2870	21700	38400	250000	448000	404000	101000	33800	<40	<40	14600	<40	<12	113	136000	127	110	<12	127	127	<8	4890000	3560000	1200000		
IP2785	0.20-	140927-45	23/09/2014	27/09/2014	15/10/2014	8360	5350	20500	63000	22800	129	362	684	5570	1590	19400	101000	42700	16600	<40	<40	463	<40	<12	72	15600	<24	<20	<12	<24	<9	<8	291000	112000	164000		
IP2785	1.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	1420	30200	31400	46600	13000	<40	135	246	946	6600	11000	26900	13100	5650	<40	<40	164	<40	<12	97	2950	<24	<20	<12	<24	<9	<8	182000	121000	57600		
IP2785	2.50-	140927-45	23/09/2014	27/09/2014	13/10/2014	59900	1130000	337000	193000	43300	<40	4510	34400	39900	69300	59300	73600	30700	12700	<40	<40	23000	<40	<12	92	162000	<24	<20	<12	<24	<9	<8	2100000	1700000	233000		
IP2785	3.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	66300	646000	259000	197000	33000	405	23500	48000	44200	530000	133000	158000	52200	20200	<40	<40	32000	<40	<12	92	214000	<24	<20	<12	<24	<9	<8	2220000	1140000	873000		
IP2787	0.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	<40	1120	9400	42200	13800	<40	<40	<40	<40	1930	11300	77800	43400	16900	<40	<40	<40	<40	<12	79	<176	<24	<20	<12	<24	<9	<8	201000	66500	134000		
IP2787	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	<40	1180	13300	33200	7200	<40	<40	<40	<40	586	3430	25100	13600	5280	<40	<40	<40	<40	<12	101	<176	<24	<20	<12	<24	<9	<8	97600	54900	42700		
IP2787	3.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	4460	6310	<100	<100	<100	<40	238	2690	2970	<100	413	4630	<100	<100	<40	<40	<40	<40	<12	106	12200	<24	<20	<12	<24	<9	<8	23500	6310	5050		
IP2788	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	<200	2220	19400	61000	17300	<200	<200	<200	<200	687	4140	43700	24900	9900	<200	<200	<200	<200	<60	81	<880	<120	<100	<60	64.7	<9	64.7	173000	100000	73400		
IP2788	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	<40	2660	14300	55300	24100	<40	<40	<40	<40	680	3030	31100	34300	16300	<40	<40	<40	<40	<12	53	<176	<24	<20	<12	<24	<9	8.88	165000	96400	69100		
IP2788	2.50-	140927-29	22/09/2014																																		

Monitor Phase 58

Excavate

Commercial
Deep 1%

	Aliphatics >C10-C12		Aliphatics >C12-C16		Aliphatics >C16-C21		Aliphatics >C21-C35		Aliphatics >C35-C44		Aliphatics >C5-C6		Aliphatics >C6-C8		Aliphatics >C8-C10		Aromatics >EC10-EC12		Aromatics >EC12-EC16		Aromatics >EC16-EC21		Aromatics >EC21-EC35		Aromatics >EC35-EC44		Aromatics >EC40-EC44		Aromatics >EC5-EC7		Aromatics >EC7-EC8		Aromatics >EC8-EC10		Benzene		Ethylbenzene		GRO Surrogate % recovery**		GRO TOT (Moisture Corrected)		Methyl tertiary butyl m,p-Xylene ether (MTBE)		sum of detected by GC		detected mpo xylene by GC		Toluene		Aliphatics & Aromatics >C5-C44		Total Aliphatics >C12-C44		Total Aromatics >EC12-EC44																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Monitor Phase 58

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Monitor Phase 58

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Monitor Phase 58			Acenaphthene		Acenaphthene-d10 % recovery**		Acenaphthylene		Anthracene		Benz(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benz(o,g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Chrysene-d12 % recovery**		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Naphthalene-d8 % recovery**		PAH, Total Detected USEPA 16		Perylene-d12 % recovery**		Phenanthrene		Phenanthrene-d10 % recovery**		Pyrene	
Excavate			Commercial Deep 1%																																											
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%			
IP 2383	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	107	<8	107	<12	1280	876	1220	1910	1070	639	1420	102	226	2150	81.4	867	117	108	15000	109	1260	105	1880																		
IP 2383	0.90-	140905-19	02/09/2014	05/09/2014	20/09/2014	102	<8	102	<12	32.6	45.1	62.2	99.7	60.3	37.9	78.3	97.4	<23	116	21.2	46.8	22.1	102	873	102	132	101	118																		
IP 2384	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	98	39	98	20.2	84.9	448	693	904	558	417	578	92.7	144	960	78.7	454	173	99.7	7150	97	648	96.5	946																		
IP 2400	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	134	134	104	85.2	756	2660	2870	2880	1510	1210	2510	95	380	5030	303	1350	324	99.4	29600	104	3550	100	4080																		
IP 2400	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	101	<8	101	<12	<16	<14	<15	<15	<24	<14	17.8	98.8	<23	<17	<10	<18	<9	96.8	<118	114	45.3	100	24.4																		
IP 2400	2.20-	140905-19	02/09/2014	05/09/2014	20/09/2014	368	104	104	135	281	32.4	56.3	88.3	<24	<14	105	101	<23	138	800	<18	565	97.2	3690	120	936	103	187																		
IP 2401	1.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	192	97.5	97.5	70.7	229	174	184	292	136	110	214	83.8	33	380	492	98.6	607	94.5	4100	93.5	496	93.6	392																		
IP 2401	2.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	442	90.8	90.8	32.1	351	100	76.4	212	57.9	50.6	266	88.2	<23	243	1090	46.6	1030	92.4	6120	94.5	1840	90.8	276																		
IP 2402	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	15	98.6	16.2	88.7	133	156	274	128	128	85.5	163	97.1	28.5	287	105	91.8	144	97.3	2330	105	254	99.5	356																		
IP 2402	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	441	89.6	41.8	427	72	56.5	146	34.3	28.1	192	86.9	<23	148	1210	21.3	1220	86.2	6220	98.4	2000	87.3	188																			
IP 2402	2.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	984	112	112	<12	960	145	141	251	105	69.7	417	117	32.4	313	2620	67	3410	114	14200	126	4140	105	507																		
IP 2403	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	447	98.4	46	549	105	62	180	38.8	38.9	290	99.5	<23	208	1190	26.1	1230	98.2	7010	106	2290	93.8	307																			
IP 2404	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	748	100	100	<12	724	155	115	245	65.6	58.9	307	101	28.2	303	1840	47.3	1820	101	10100	109	3220	95.3	427																		
IP 2405	0.30-	140908-1	03/09/2014	08/09/2014	23/09/2014	344	104	104	358	1310	286	820	750	483	427	688	84.3	158	779	876	367	1310	97.5	12700	96	1520	106	2230																		
IP 2405	1.00-	140908-1	03/09/2014	08/09/2014	20/09/2014	247	95.5	31.2	276	96.2	73.9	116	39.7	28.6	146	96.7	<23	142	808	27.9	538	93.1	4070	110	1330	94.6	171																			
IP 2406	0.20-	140908-1	03/09/2014	08/09/2014	23/09/2014	500	94.3	419	778	246	473	576	362	194	295	86.3	134	452	1060	253	3100	93.4	10500	94.2	977	91.5	678																			
IP 2406	1.30-	140908-1	03/09/2014	08/09/2014	20/09/2014	1030	93.9	133	632	75.8	164	163	104	108	113	87.3	75.6	308	1620	89.9	2850	96.2	9900	98	2080	87.6	358																			
IP 2483	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	91.5	103	103	26.8	92.7	413	533	643	387	292	591	96.7	91.9	1360	141	315	238	102	7360	103	1100	101	1050																		
IP 2483	1.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	642	96.7	155	171	143.4	56.5	74.7	52.7	38.8	78	86.5	<23	95.9	813	46.1	8150	99.3	10900	88.3	337	86.7	131																			
IP 2483	2.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	169	96.6	64.8	115	16.4	<15	25.1	<24	<14	108	97.1	<23	53	427	<18	444	97.1	2010	96.4	543	92.9	41.1																			
IP 2500	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	11.3	93.8	<12	<16	95.8	130	311	129	78.9	157	98.6	33.5	183	<10	99.8	59.5	95.2	1630	104	188	94.2	150																			
IP 2500	1.00-	140905-19	02/09/2014	05/09/2014	19/09/2014	2180	133	571	691	234	427	582	292	244	323	109	103	629	3930	237	19800	127	33300	110	2340	118	776																			

Monitor Phase 58

Excavate

Monitor Phase 58		Acenaphthene-d10 % recovery**																				Acenaphthylene																				Anthracene																				Benz(a)anthracene																				Benzo(a)pyrene																				Benzo(b)fluoranthene																				Benzo(g,h,i)perylene																				Benzo(k)fluoranthene																				Chrysene																				Chrysene-d12 % recovery**																				Dibenzo(a,h)anthracene																				Fluoranthene																				Fluorene																				Indeno(1,2,3-cd)pyrene																				Naphthalene																				Naphthalene-d8 % recovery**																				PAH, Total Detected USEPA 16 % recovery**																				Perylene-d12 % recovery**																				Phenanthrene																				Phenanthrene-d10 % recovery**																				Pyrene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Sample Description		Sample Depth		SDG ID		Date Sampled		Received On		Date Complete		µg/kg		%		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	

100

Commercial
Deep 1%

Monitor Phase 58

Excavate

Monitor Phase 58										Acenaphthene-d10 % recovery**										Acenaphthylene										Anthracene										Benz(a)anthracene										Benzo(a)pyrene										Benzo(b)fluoranthene										Benzo(g,h,i)perylene										Benzo(k)fluoranthene										Chrysene										Chrysene-d12 % recovery**										Dibenzo(a,h)anthracene										Fluoranthene										Fluorene										Indeno(1,2,3-cd)pyrene										Naphthalene										Naphthalene-d8 % recovery**										PAH, Total Detected USEPA 16 % recovery**										Perylene-d12 % recovery**										Phenanthrene										Phenanthrene-d10 % recovery**										Pyrene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Excavate

Excavate

Monitor Phase 58

Excavate

Commercial Deep 1%

Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	Acenaphthere- d10 % recovery**	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benz(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Chrysen- d12 % recovery**	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene recovery**	PAH, Total Detected USEPA 16 % recovery**	Perylene-d12 % recovery**	Phenanthrene recovery**	Phenanthrene- d10 % recovery**	Pyrene		
IP1751	0.50-	150214-75	11/02/2015	14/02/2015	23/04/2015	3310	107	46.4	4050	2230	1660	1470	831	733	1720	105	196	10900	3940	746	165	107	56100	114	16200	109	7960
IP1751	1.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	55.5	103	<12	<16	<14	<15	<15	<24	<14	<10	84.4	<23	<17	<10	<18	<9	103	<118	80.7	56.8	103	<15
IP1752	0.50-	150214-75	11/02/2015	14/02/2015	23/04/2015	19.3	116	31.2	53.9	189	253	342	122	218	104	104	58	372	<10	189	85.1	112	2770	108	238	116	323
IP1752	1.50-	150214-75	11/02/2015	14/02/2015	03/03/2015	<8	103	<12	<16	37	17.4	34	<24	<14	31.4	94.4	<23	35	<10	<18	<9	104	240	99.5	55.8	102	29
IP1752	2.50-	150214-75	11/02/2015	14/02/2015	03/03/2015	<8	103	<12	<16	<14	<15	<14	<24	<14	19	96.8	<23	<17	<10	<18	<9	104	<118	104	41.4	103	<15
IP2106	0.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	93.1	109	60.8	312	959	1180	1230	962	542	934	104	238	1560	284	793	164	107	11700	112	748	107	1600
IP2106	1.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	261	107	47.8	361	143	142	181	114	62.1	202	108	29.3	296	674	86.5	327	104	4310	114	1050	109	331
IP2603	0.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	33.1	101	<12	30.7	90.2	67.8	106	52.5	41.1	107	98.3	<23	128	44	39.3	55.2	100	1100	104	182	101	120
IP2603	1.50-	150214-75	11/02/2015	14/02/2015	02/03/2015	<8	107	<12	<16	<14	<15	<24	<14	<10	94.3	<23	<17	<10	<18	<9	112	<118	95.2	<15	106	<15	
IP1567	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	<8	126	<12	<16	33	22.6	37.5	<24	<14	40.7	80.2	<23	62.2	<10	<18	55.6	124	407	71.9	105	102	51.5
IP1567	2.00-	150221-57	17/02/2015	21/02/2015	11/03/2015	93.1	111	493	179	143	171	256	202	73.7	293	84.7	72.9	363	194	109	2390	111	6840	79.6	1070	100	738
IP1567	3.50-	150221-57	17/02/2015	21/02/2015	11/03/2015	29.6	110	<12	62.6	98.7	99	214	68	<14	165	104	<23	125	95.8	57.4	66.9	110	1510	108	304	109	122
IP1573	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	800	106	<12	1000	782	652	1370	556	390	826	112	206	1740	1920	458	768	106	15700	125	2370	107	1840
IP1576	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	14.1	129	24.7	150	103	27.4	109	<24	<14	242	89.1	<23	134	53.3	<18	290	129	2280	63.8	778	115	350
IP1576	2.00-	150221-57	17/02/2015	21/02/2015	12/03/2015	<8	122	<12	1140	498	148	345	98.2	77.7	807	85	56.6	653	830	74.7	1380	124	12400	68.5	4890	113	1400
IP1576	3.50-	150221-57	17/02/2015	21/02/2015	12/03/2015	11500	110	<12	34800	10200	3210	4240	1230	787	21200	99.9	1120	12200	23100	799	12900	103	297000	113	133000	106	26600
IP1577	0.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	42.3	118	448	64.7	72.2	55.8	113	43.8	20.4	109	77.4	<23	136	77.5	<18	1990	120	3830	70.3	463	102	197
IP1577	1.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	<8	100	<12	<16	<14	<15	43	<24	<14	29.3	81.6	<23	27.9	<10	<18	65.4	101	265	80.7	70.9	94.6	28.4
IP1577	2.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	<8	117	110	<16	<14	<15	21.9	<24	<14	28.8	64.5	<23	24.6	25.4	<18	465	117	853	48.7	143	95.7	34.8
IP1577	3.50-	150221-73	18/02/2015	21/02/2015	12/03/2015	168	98.2	28.2	173	1010	1420	1990	1110	615	1220	100	347	1120	134	973	86.1	96.6	12100	119	734	98.2	986
IP1578	0.50-	150221-73	18/02/2015	21/02/2015	13/03/2015	17.2	140	106	28.4	190	217	449	170	159	286	85.7	83.1	222	37.8	134	376	110	2930	70.2	257	120	202
IP1578	1.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	<8	136	18.7	<16	113	93.3	228	72.2	76.6	140	98.7	32.8	159	<10	54.3	135	128	1430	85.9	188	121	121
IP1578	2.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	<8	119	<12	<16	19.5	33.2	<24	<14	15	111	<23	57.5	<10	<18	41.3	115	379	99.2	101	114	46.7	104
IP1578	3.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	30.2	105	37.3	31.3	141	107	247	68.5	61.2	156	78.5	<23	147	53.1	55.7	358	104	1890	76.2	250	95.2	150
IP1578	4.30-	150221-73	18/02/2015	21/02/2015	16/03/2015	16.9	110	<12	42.5	52.1	32.2	57.9	<24	<14	79.3	103	<23	92	131	<18	324	106	1610	120	544	104	235
TPE0737	0.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	463	108	116	604	3920	4120	604	2700	2110	4520	85.9	1150	5390	344	2490	125	85.9	41800	101	2640	104	3930
TPE0739	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	242	130	79.9	192	94.6	127	198	140	111	143	98.1	43.1	196	189	91.6	373	128	2990	101	<25	109	346
TPE0739	2.00-	150221-57	17/02/2015	21/02/2015	11/03/2015	758	102	81.2	338	353	346	393	318	194	413	88	55.9	1130	447	183	600	106	8050	81.1	1460	98.5	962
TPE0739	3.50-	150221-57	17/02/2015	21/02/2015	12/03/2015	167	104	66.8	182	577	1120	1460	849	586	1040	78.7	281	1160	131	633	281	103	10600	72.9	743	96.3	1280
IP1570	0.50-	150302-28	26/02/2015	02/03/2015	26/03/2015	40.4	98	18.1	83.4	385	471	791	404	243	445	98.3	122	549	37.5	332	60.2	97.8	4790	114	370	96.3	437
IP1570	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	19.5	111	98.8	41.9	172	161	315	149	87.2	258	85.8	48.1	261	34.4	97.4	446	113	2860	84.9	381	97.4	292
IP1570	2.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	19.9	109	<12	76.1	202	128	242	81.1	82.6	201	93.2	<23	52.3	26.4	69.7	38.6	111	2490	89	470	102	328
IP1907	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	<8	99.7	<12	<16	44.4	47.1	119	51.7	26.8	67.6	93.2	<23	62.7	25.1	36	20.9	98.6	697	106	115	97	68.7
IP1907	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	12.5	92.4	<12	<16	<14	<15	60.7	<24	<14	47	88.5	<23	<17	<10	<18	<9	94	165	102	57.7	87.3	<15
IP1918	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	<8	92.4	<12	<16	<14	<15	118	<24	<14	154	82.9	<23	35.3	<10	<18	20.6	91.8	572	91.3	187	88.9	57.4
IP1918	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	<8	95.3	<12	<16	18.2	<15	<15	<24	<14	11.4	86.1	<23	<17	<10	<18	46.4	94.4	118	94.3	42	93.2	<15
IP2093	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	<40	82.2	464	602	659	992	1790	1060	701	744	88.7	317	1160	501	711	279	81.9	13100	112	834	82.6	2290
IP2093	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	<157	91.8	<12	79.4	<14	<15	44.8	<14	<14	61.8	88.8	<23	27.8	369	<18	244	93	1550	101	530	87	33.8
IP2599	0.50-	150302-28	26/02/2015	02/03/2015	25/03/2015	34.9	91.8	<12	51.1	203	172	308	106	97.1	208	84.7	37	324	47.2	92.4	64.8	90.7	2300	96.6	281	89.9	273
IP2599	1.50-	150302-28	26/02/2015	02/03/2015	25/03/2015	35.7	94	<12	37.6	138	117	268	96.8	61.8	205	91.5	36	200	66.4	70.5	116	93.5	1950	106	327	91.7	178
IP2599	2.50-	150302-28	26/02/2015	02/03/2015	23/03/2015	<8	97.7	<12	21.7	<14	<15	31.3	<24	<14	<10	92.2	<23	24.6	<10	<18	23.4	98.3	190	107	52.2	93.1	36.5
IP2599	3.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	70.7	105	<12	21.1	17.6	<15	40.6	<24	<14	70.7	96.2	<23	<17	239	<18	170	103	904	105	274	102	<15
IP2599	4.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	16.7	95.4	<12	<16	18.3	<15	<15	<24	<14	<10	86	<23	<17	53.5	<18	40.8	94.1	204	92.6	74.6	93.1	<15
IP1663	0.50-	150304-83	02/03/2015	04/03/2015	31/03/2015	79	180	103	163	710	1020	1550	758	460	1100	149	320	1080	89.5	549	384	172	10500	162	1100	167	999
IP1663	1.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	52.9	97.4	<12	233	700	649	857	42														

Monitor Phase 58

Excavate

Monitor Phase 58										Acenaphthene-d10 % recovery**										Acenaphthylene										Anthracene										Benz(a)anthracene										Benzo(a)pyrene										Benzo(b)fluoranthene										Benzo(g,h,i)perylene										Benzo(k)fluoranthene										Chrysene										Chrysene-d12 % recovery**										Dibenzo(a,h)anthracene										Fluoranthene										Fluorene										Indeno(1,2,3-cd)pyrene										Naphthalene										Naphthalene-d8 % recovery**										PAH, Total Detected USEPA 16 % recovery**										Perylene-d12 % recovery**										Phenanthrene										Phenanthrene-d10 % recovery**										Pyrene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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100

Commercial
Deep 1%

Description	Depth	SDG ID	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	
IP 2775	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	1150	88.8	<12	1420	615	685	961	471	322	724	82.3	150	1260	1680	323	1070	86.2	15200	99.3	2810	88.2	1600	
IP 2775	1.50	141001-77	25/09/2014	01/10/2014	18/10/2014	<8	99.1	<12	253	310	522	708	541	240	<10	101	119	362	<10	328	118	99.4	4600	120	269	97.8	825	
IP 2775	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	99	<12	<16	<14	<15	44.4	<24	<14	<10	96	<23	<17	<10	<18	<9	101	<118	105	<15	97	<15	
IP 2777	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	59.5	116	64.2	227	807	800	1090	578	431	887	108	175	1400	578	447	149	114	9390	117	833	117	1330	
IP 2777	2.00	141001-77	25/09/2014	01/10/2014	17/10/2014	175	93.7	<12	256	22.2	<15	26.7	<24	<14	39	93.4	<23	53.5	470	<18	60.6	92.3	1780	98.1	589	92.4	85.6	
IP 2778	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	274	112	<12	746	1010	1100	1710	863	464	1350	93.3	<272	1520	581	652	444	114	16000	99	2740	104	2260	
IP 2778	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	28.6	105	18.7	90.9	227	264	370	201	115	257	97	59.9	338	55.6	141	64.6	104	2900	104	255	104	411	
IP 2780	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	120	110	91.8	266	680	673	887	445	290	837	101	150	1240	231	344	189	111	8790	110	912	110	1430	
IP 2780	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	97.4	<12	<16	22.2	18.9	38.7	<24	<14	25	92.9	<23	29.7	<10	<18	<9	96.5	196	97.4	30.7	96.3	31.1	
IP 2864	1.00	141001-77	25/09/2014	01/10/2014	12/11/2014	369	112	134	807	1220	1050	1590	695	607	1360	112	294	1940	628	619	353	117	15800	101	1960	111	2200	
IP 2864	2.00	141001-77	25/09/2014	01/10/2014	18/10/2014	<8	101	<12	92.9	464	576	659	380	247	438	98.6	105	538	<10	315	<9	101	4550	109	200	98	541	
IP 2867	0.50	141001-77	25/09/2014	01/10/2014	18/10/2014	16.6	94.3	<12	24.6	84.5	91.9	159	67.8	49.8	111	96	30.7	99.3	27.3	60.2	55.3	100	1150	88.1	169	94.6	104	
IP 2867	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	135	99.5	<12	200	43.1	22.5	44	<24	<14	53.9	98.2	<23	49.1	258	<18	53	98.6	1410	97.7	376	99.1	173	
TPE 1185	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	47.6	99	29.5	111	723	744	1320	633	384	788	98.3	195	1200	57.8	495	66.1	99.4	8330	98.6	548	101	982	
TPE 1185	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	104	<12	<16	<14	17.5	48.9	<24	<14	29.8	92.5	<23	40.8	<10	<18	<9	104	239	97.8	62.8	101	39	
TPE 1185	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	105	<12	<16	17.4	<15	34.3	<24	<14	18.4	92.5	<23	19.4	<10	<18	<9	106	139	94.7	49.2	105	<15	
TPE 1186	0.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	105	<12	<16	19	30.2	44.9	<24	17.8	30.7	95.8	<23	24.4	<10	<18	<9	103	313	102	26	102	20.6	
TPE 1186	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	48.3	102	<12	<19	19.4	<15	25.5	<24	<14	26.1	96.1	<23	<17	61.1	<18	38.6	102	639	105	221	101	70.5	
TPE 1186	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	95.8	<12	<16	<14	<15	<15	<24	<14	<10	87.4	<23	<17	<10	<18	<9	96.1	<118	91.5	<15	92.6	<15	
TPE 1187	0.20	141001-77	25/09/2014	01/10/2014	12/11/2014	<8	86.6	<12	21.2	77.3	70.9	142	83.9	45.2	119	83.5	32.4	101	27.6	66.1	34	89.7	1010	90.1	97.2	80.3	96.8	
TPE 1187	0.60	141001-77	25/09/2014	01/10/2014	17/10/2014	18.8	94.5	<12	26.9	<14	<15	64.4	<24	<14	80.6	91.4	<23	22.2	29.8	<18	31.8	96.6	421	88	146	96.2	<15	
TPE 1268	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	282	103	<12	482	439	339	545	221	201	538	102	75.5	1030	568	187	334	107	7500	93.5	1220	102	1040	
TPE 1268	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	<8	97.3	<12	<16	63	84.7	123	74.8	45.5	57.3	93.8	<23	54.3	<10	54.9	<9	98	653	103	33	95.8	62.9	
TPE 1268	2.50	141001-77	25/09/2014	01/10/2014	18/10/2014	<8	101	<12	<16	<14	<15	86.1	<24	<14	<10	94.8	<23	30.6	<10	<18	<9	102	<118	101	<15	99	<15	
IP2202	0.50	140807-37		12/08/2014	27/08/2014	<8	88.5	<12	39.2	18.7	<15	45.3	<24	<14	66.1	89.5	<23	60.8	78.8	<18	127	88.8	694	94.7	199	87.8	60	
IP 2202	0.50	140806-8	04/08/2014	06/08/2014	19/08/2014	58.4	101	<12	92.3	279	215	344	128	118	348	97.9	34.1	690	121	101	64.6	101	3600	103	442	103	561	
IP 2202	1.50	140806-8	04/08/2014	06/08/2014	19/08/2014	66.7	115	56.4	220	596	747	942	734	383	764	107	169	1180	191	533	147	113	8690	114	814	112	1150	
IP 2674	0.50	140803-11	03/08/2014	03/08/2014	19/08/2014	52.4	114	<12	132	42.8	55.4	93.2	61.2	35.3	93.8	100	<23	117	151	41.8	131	110	1460	97.9	298	113	157	
TPE 0758	0.50	140808-10	06/08/2014	08/08/2014	10/12/2014	87.3	119	67.9	331	3190	2440	3710	1390	1300	2660	107	593	3810	56.6	1300	366	119	25900	106	1890	113	2680	
TPE 910	0.30	140818-45	13/08/2014	18/08/2014	10/12/2014	<8	97.6	<12	<16	89.8	129	211	145	95.6	139	94.5	36.3	163	<10	117	82.5	97.9	1490	100	146	98.4	130	
TPE 910	1.00	140818-45	13/08/2014	18/08/2014	10/12/2014	<8	102	<12	<16	25.8	<15	26.9	<24	<14	19.9	99	<23	<17	<10	<18	<9	101	139	109	47.7	102	19	
TPE 910	2.00	140818-45	13/08/2014	18/08/2014	10/12/2014	45.2	96.2	<12	42.5	21.9	<15	31.5	<24	<14	29.5	105	<23	<17	96.1	<18	185	97.4	722	117	251	103	19.8	
TPE825	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	30.4	94	81.7	267	626	621	1040	478	402	676	92.5	153	1140	42.9	405	80.8	96	7460	95	429	90.4	982	
TPE825	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	35.7	108	57.2	166	766	926	1720	655	500	1040	106	198	1950	80.1	610	172	106	11500	108	1300	107	1360	
TPE825	2.50	141121-118	17/11/2014	21/11/2014	11/12/2014	228	96.6	<12	35.5	<14	<15	18.9	<24	<14	16.5	91.7	<23	32.7	262	<18	65.1	97.5	836	85.9	157	91.8	20.6	
TPE826	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	9.8	78.7	<12	26.4	120	123	204	143	79.3	148	72	34.2	230	17.3	103	43.7	86.4	1600	75	115	75.1	202	
TPE826	1.50	141121-118	17/11/2014	21/11/2014	12/12/2014	133	103	75.1	911	2920	1040	1490	278	626	2780	108	106	5270	221	271	265	105	21800	114	380	102	5080	
TPE922	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	<8	95	<12	<16	21.1	<15	53.8	<24	<14	28.6	88.6	<23	<17	<10	<18	41	99.4	211	92.9	32.8	94.3	33.9	
TPE922	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	15.2	111	<12	27.6	<14	<15	64.6	<24	<14	41.2	117	<23	31.4	30	<18	19.2	113	393	116	107	113	57.1	
TPE923	1.00	141121-118	17/11/2014	21/11/2014	11/12/2014	<8	99.9	<12	<16	<14	<15	148	<24	<14	168	96.9	<23	27.4	<10	<18	35.5	100	735	94.6	270	99.3	86.2	
TPE923	2.00	141121-118	17/11/2014	21/11/2014	12/12/2014	<8	94.6	<12	<16	<14	<15	27.4	<24	<14	16.1	96.2	<23	17.1	<10	<18	12.4	96.1	<118	91.7	39.3	94.9	<15	
TP7038	0.50	140627-104	25/06/2014	27/06/2014	10/07/2014	890	87.3	<12	752	873	1370	1940	1130	754	1090	78.1	280	1640	1410	895	817	90	18000	91.9	2640	82.1	3500	
TP7038	1.00	140627-104	25/06/2014	27/06/2014	10/07/2014	1070	104	<12	1140	87.8	80.2	101	61.8	49.1	97.5	105	<23	163	2510	41	1090	96.5	10600	108	3820	98.5	1102	
TP7038	2.00	140627-104	25/06/2014	27/06/2014	10/07/2014	1910	89.1	141	1160	811	1010	1160	605	461	879	81.6	170	1260	2390	459	923	80.3	19500	92.6	4770	84.5	1340	
TP7038	3.00	140627-104	25/06/2014	27/06/2014	10/07/2014	1210	86.2	214	1060	71	60.9	101	34.8															

Monitor Phase 58

Excavate

Commercial Deep 1%	Acenaphthene- d10 % recovery**																	Naphthalene- d8 % recovery**		PAH, Total Detected USEPA 16		Perylene-d12 % recovery**		Phenanthrene- d10 % recovery**		Pyrene
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Chrysene- d12 % recovery**	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	recovery**	%	µg/kg	%	µg/kg	%	µg/kg	%			
Date Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	%	µg/kg	%	µg/kg	%	µg/kg	µg/kg			
6/05/2015	<8	98	<12	<16	51.1	33.9	65.1	40.9	17.6	50.4	92.2	<23	60.9	<10	29.3	23.8	98.1	500	90.7	81.6	101	45.1				
6/05/2015	232	96.6	38.6	227	110	97.5	240	66	58.5	253	97.7	28	190	480	52.1	132	95	3330	104	920	98.2	201				
6/05/2015	807	112	<12	464	<14	19.4	37.2	<24	<14	54.5	116	<23	57.7	1040	<18	280	110	4070	121	1130	116	178				
6/05/2015	<8	97.9	<12	24.5	<14	<15	<15	<15	<14	11.2	96.5	<23	<17	49.4	<18	<9	110	164	87.5	78.6	100	<15				
6/05/2015	152	96.8	15.2	141	68.8	46.2	94.4	30	29.6	104	93.8	<23	107	266	23.8	852	94.9	2510	103	473	97.5	107				
6/05/2015	13.5	94.4	<12	<16	<14	<15	30.3	<24	<14	37.9	88.9	<23	<17	20.2	<18	420	94.3	622	93	101	97.6	<15				
6/05/2015	<8	95.5	<12	<16	<14	<15	<15	<24	<14	23.6	91.5	<23	<17	38	<18	174	95.1	319	94.6	83.8	97	<15				
2/04/2015	67.5	102	44.5	216	354	412	483	347	172	429	107	96.1	633	199	249	172	104	5120	115	650	103	598				
2/04/2015	58.9	97.1	52	99.1	459	490	538	454	225	458	96.2	92.9	709	64	320	112	98.3	5110	106	337	93.3	641				
2/04/2015	<8	93.7	<12	<16	<14	<15	<15	<24	<14	<10	86.2	<23	<17	<10	<18	<9	96.5	<118	84.4	32.7	91.5	<15				
2/04/2015	<8	96.1	<12	<16	<14	<15	<15	<24	<14	<10	87.8	<23	<17	<10	<18	<9	97.6	<118	90.4	36.8	91.4	<15				
2/04/2015	294	97.1	<12	247	47	127	176	153	66.5	66.9	98.1	31.7	110	189	110	300	97.3	2590	102	296	97.6	376				
2/04/2015	1520	103	<12	1460	46.2	44.1	75.3	34.6	21.6	84.4	101	<23	151	2080	28.1	580	102	11900	104	5530	96.5	281				
2/04/2015	494	96.3	<12	1430	<14	<15	21.7	<24	<14	<10	97.9	<23	56.2	745	<18	197	97.9	6770	103	3680	93.4	149				
2/04/2015	28.4	94.7	<12	42.1	<14	<15	17.7	<24	<14	<10	89.6	<23	<17	37.7	<18	<9	98	256	94.6	112	90.7	18.2				
2/04/2015	228	97.3	<12	391	<14	<15	<15	<24	<14	<10	94.5	<23	20.5	258	<18	<9	98.4	1800	96.6	859	93.6	47.8				
2/04/2015	20.9	96.5	<12	28.3	82.6	83.8	155	64.3	49.1	112	96.7	<23	132	30.1	49.6	54.6	98	1180	103	207	94.3	113				
2/04/2015	13.4	93.5	<12	22	30.9	25.5	46.9	<24	<14	41.3	87.1	<23	58.8	18.4	<18	28.8	95.5	434	89.2	97.6	89.5	50.3				
2/04/2015	<8	94.6	<12	<16	<14	17.9	24.8	<24	<14	19.3	86.1	<23	31.6	<10	<18	14.6	97.2	186	87.5	48.5	90.6	29.2				
2/04/2015	<8	93.3	<12	<16	<14	<15	<15	<24	<14	12.3	89.3	<23	<17	<10	<18	<9	97.2	<118	90.4	31.5	90.9	<15				
2/04/2015	<8	95.5	<12	<16	<14	<15	<15	<24	<14	<10	88.4	<23	<17	<10	<18	<9	97.5	<118	91.9	<15	91	<15				
2/04/2015	<8	96.6	<12	<16	<14	<15	<15	<24	<14	<10	91	<23	<17	<10	<18	<9	98	<118	96.4	<15	92.4	<15				
2/04/2015	<8	97.5	<12	<16	<14	<15	20.9	<24	<14	<10	88.1	<23	<17	<10	<18	<9	100	<118	88.7	<15	92.5	<15				
2/04/2015	38.2	96.7	<12	63.1	<14	<15	<15	<24	<14	<10	92.4	<23	<17	<10	<18	<9	98.9	171	94.8	47.2	92.2	22.4				

Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete					%	%	%																
IP 1667	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1668	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Detected in Postlewhite						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1669	0.30-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected Paul Fenney						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1670	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1735	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1737	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1756	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Sargeant						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1756	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1756	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1758	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1760	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1760	1.00-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1823	2.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1826	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Cotterell						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1826	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1835	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected Paul Fenney						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1835	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1836	1.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected Kevin Gill						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1840	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1840	2.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1841	0.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1841	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1842	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1848	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1848	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1848	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1905	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Detected	Not Detected	-	Not Detected	-
IP 1905	1.60-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1905	2.60-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1905	3.30-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1908	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Detected in Sargeant						-	Detected in ACM debris	Detected	Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1908	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1909	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1909	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1909	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1911	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Sargeant						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1911	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1920	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1920	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1921	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1921	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1922	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1922	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1923	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1923	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1929	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1931	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1931	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1931	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1931	3.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1932	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1932	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1932	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1994	0.50-	140807-37	05/08/2014	07/08/2014	03/09/2014	None	Not Detected in Swindells	N/C		<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Detected	Not Detected	-	Not Detected	-
IP 1998	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-</		

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP 2501	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2501	0.40-	140818-45	13/08/2014	18/08/2014	04/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2501	1.50-	140818-45	13/08/2014	18/08/2014	02/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	0.20-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	2.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2583	0.50-	140805-8	01/08/2014	05/08/2014	18/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2598	0.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2598	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	0.50-	140902-28	28/08/2014	02/09/2014	16/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	1.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	2.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	3.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0836	0.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0836	1.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0928	0.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0928	1.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 1013	0.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 1013	1.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.90-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	2.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	0.80-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	3.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	2.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	1.45-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	0.30-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	0.20-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2091	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2091	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2111	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2111	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	0.60-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	1.60-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2207	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2207	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	0.30-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.80-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	0.50-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	0.90-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	1.40-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2286	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-</																	

Excavate

Commercial
Deep 1%

Asbestos Components (Using TMO48)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
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- Not Detected Iren Sargeant	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
- Not Detected Kevin Bowron	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
- Not Detected Kevin Bowron	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	-
- Not Detected Kevin Bowron	-			-	-	-	- Not Detected	0	Not Detected	19/9/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	-
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- Not Detected Iren Sargeant	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Jhris Swindells	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
- Not Detected Paul Fenney	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Iren Sargeant	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Iren Sargeant	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Jhris Swindells	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Kevin Bowron	-			-	-	-	- Not Detected	0	Not Detected	19/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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- Not Detected Jn Postlewhite	-			-	-	-	- Not Detected	0	Not Detected	18/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	-	-			%	%	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1910	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP1910	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1910	2.20-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1919	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	hris Swindells		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP1919	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1919	2.40-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1993	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP1993	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1993	2.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2018	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Detected æ fibres in soil	Not Detected		29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2018	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Trace æ fibres in soil	Not Detected		29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2018	2.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2019	0.30-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2019	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2019	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2089	0.20-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2089	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2089	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2108	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2108	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2114	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2114	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2114	2.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2502	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Gill		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2502	0.70-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2502	1.70-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2503	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	hris Swindells		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2503	1.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2503	2.50-	140918-12	15/09/2014	18/09/2014	01/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	0.50-	140918-12	15/09/2014	18/09/2014	01/10/2014	-	Not Detected	hris Swindells		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2580	1.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	2.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	3.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	4.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Gill		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2677	1.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	2.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	3.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	4.50-	140918-12	15/09/2014	18/09/2014	01/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	5.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Bowron		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-
IP2697	1.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	2.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	3.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	4.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	5.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Bowron		-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TP1004	1.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	2.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	3.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1003	0.50-	140918-18	15/09/2014	18/09/2014	01/10/2014	-	Detected	hris Swindells		-	-	-	-	Not Detected	æ fibres in soil	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TPE1003	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE930	0.30-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TPE930	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney		-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IPE759	0.50-	140711-130	09/07/2014	11/07/2014	23/10/2014	-	Not Detected	aura Robbins		-	-	-	-	Not Detected	0	Not Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IPE759	0.90-	140711-130	09/07/2014	11/07/2014	23/10/2014	None	Detected	n Postlewhite	N/C	0.0045	0.0014	0.0059	Not Detected	æ fibres in soil	Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	
IPE759	1.50-	140711-130	09/07/2014	11/07/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IPE759	2.50-	140711-130	09/07/2014	11/07/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IPE823	0.20-	140711-130	09/07/2014	11/07/2014	23/10/2014	None	Not Detected	hris Swindells	N/C	<0.001	<0.001	<0.001	Detected	æ fibres in soil	Not Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected							

Excavate

Commercial
Deep 1%

[illegible]

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP 2387	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2390	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2390	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2392	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2488	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2488	1.10-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	2.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	2.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	2.50-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2592	0.40-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	0.50-	141001-76	26/09/2014	01/10/2014	05/11/2014	see fibres in soil,	N/C	0.0445	0.0024	0.0469	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	2.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2865	1.00-	141001-76	26/09/2014	01/10/2014	05/11/2014	None	N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2865	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2866	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2866	3.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2869	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2869	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	0.90-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	0.90-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	0.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	1.80-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	2.80-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	4.20-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	1.40-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	3.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	0.90-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	2.50-	141003-92	30/																				

Excavate

Commercial
Deep 1%

Asbestos Components (Using TMO48)		Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
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-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	07/10/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	-
-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	07/10/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	-
Red rope/string	Detected	Kevin Bowron	N/C	-	0.0276	0.0027	0.0303	Not Detected	nd ACM debris	Not Detected	07/10/14	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
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-	Not Detected	Kevin Bowron	-	-	-	-	-	Trace & fibres in soil	Not Detected	Not Detected	13/10/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	07/10/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	07/10/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	-
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None	Not Detected	Iren Sargeant	N/C	-	<0.001	<0.001	<0.001	Detected & fibres in soil	Not Detected	Not Detected	08/10/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	13/10/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
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Excavate

Commercial
Deep 1%

[illegible]

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP2005	0.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2005	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2005	2.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2006	0.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2006	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	0.50-	141121-129	18/11/2014	21/11/2014	13/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	2.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1924	0.80-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1924	2.00-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1843	0.50-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2203	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2678	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2678	1.50-	140828-42	22/08/2014	28/08/2014	07/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	0.30-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	1.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	2.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	3.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	1.50-	141007-35	02/10/2014	07/10/2014	22/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	1.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	2.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	1.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	2.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	1.10-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	1.70-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	2.90-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	1.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	2.00-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	0.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1008	0.60-	141007-35	02/10/2014	07/10/2014	17/11/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1008	1.60-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	0.40-	141009-111	09/10/2014	17/11/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	1.40-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	2.40-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	0.50-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	1.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	0.40-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	1.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	0.30-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	1.25-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	1.60-	141009-111	09/10/2014	24/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	2.60-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	0.30-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	1.00-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	1.50-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	1.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	1.40-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	2.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	3.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	0.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	1.35-	141011-9	11/10/2014	29/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	2.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	0.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	1.25-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	1.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	2.50-	141011-9	11/10/2014	28/10/2014		-	-																

Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*		
						Commercial Deep 1%																							
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	-	-		%	%	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2775	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- lagging debris	0.0251	0.0025	0.0276	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
IP 2775	1.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2775	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2777	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- lagging debris	0.0485	<0.001	0.0492	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Detected	Not Detected	Not Detected	
IP 2777	2.00	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2778	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	0.0129	0.0021	0.015	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
IP 2778	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2780	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- Loose fibres	0.0074	<0.001	0.0077	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
IP 2780	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2864	1.00	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	0.0102	0.0016	0.0118	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
IP 2864	2.00	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2867	0.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
IP 2867	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1185	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
TPE 1185	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1185	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1186	0.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
TPE 1186	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1186	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1187	0.20	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
TPE 1187	0.60	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
TPE 1268	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	pose fibres in soil,	-	-	- N/C	0.004	0.0013	0.0053	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
TPE 1268	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1268	2.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP2016	0.50	140807-37		12/08/2014	27/08/2014	Not Detected farin Cotterell						Not Detected				26/8/14	Not Detected	Not Detected	Not Detected	Not Detected									
IP 2202	0.50	140806-8	04/08/2014	06/08/2014	19/08/2014																	Not Detected	Not Detected			Not Detected			
IP 2202	1.50	140806-8	04/08/2014	06/08/2014	19/08/2014																								
IP 2674	0.50	140803-11	31/08/2014	03/08/2014	19/08/2014	Not Detected in Postlewhite										19/8/14	Not Detected	Not Detected	Not Detected	Detected									
TPE 0758	0.50	140808-10	06/08/2014	08/08/2014	10/12/2014	Detected uren Sargeant										22/08/14	Not Detected	Not Detected	Not Detected	Not Detected									
TPE 910	0.30	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected			Not Detected	Not Detected		
TPE 910	1.00	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected			Not Detected	Not Detected		
TPE 910	2.00	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE825	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	None	-	-	- N/C	0.0034	<0.001	0.004	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	
TPE825	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE825	2.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE826	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	pose fibres in soil)	-	-	- N/C	0.0012	<0.001	0.0013	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
TPE826	1.50	141121-118	17/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE922	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
TPE922	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE923	1.00	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
TPE923	2.00	141121-118	17/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP7038	0.50	140627-104	25/06/2014	27/06/2014	10/07/2014	Not Detected Paul Fenney						Not Detected				8/7/14	Not Detected	Not Detected	Not Detected	Not Detected									
TP7038	1.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP7038	2.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP7038	3.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE 1000	0.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	Not Detected	Not Detected						
TPE 1000	1.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-			-			
TPE 1000	2.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-			-			
TPE 1000	3.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-			-			
TPE 1000	4.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-			-			
TPE1014	0.50	140709-14	07/07/2014	09/07/2014	09/10/2014	Not Detected Paul Fenney						Not Detected				17/7/14	Not Detected	Not Detected	Not Detected	Not Detected									
TPE1014	1.50	140709-14	07/07/2014	09/07/2014	09/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TPE1014	2.30	140709-14	07/07/2014	09/07/2014	09/10/2014	-	-	-	-																				

Monitor Phase 58

Excavate

Commercial
Deep 1%

58

						Asbestos Components (Using TM048)	Amosite (Brown) Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Commercial Deep 1%																										
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	-	-		%	%	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2485	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2679	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	Not Detected in Postlewhite		-	-	-	-	Not Detected	0	Not Detected	1/5/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP2679	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2679	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE0911	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	Not Detected scca Rawlings		-	-	-	-	Not Detected	0	Not Detected	1/5/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPE0911	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE0911	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP1753	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	Not Detected in Postlewhite		-	-	-	-	Not Detected	0	Not Detected	21/4/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP1753	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP1753	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP1753	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2858	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	Not Detected in Postlewhite		-	-	-	-	Not Detected	0	Not Detected	21/4/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP2858	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2858	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2858	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2858	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2876	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	Not Detected Jhris Swindells		-	-	-	-	Not Detected	0	Not Detected	21/4/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP2876	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP2876	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE1335	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	Not Detected in Postlewhite		-	-	-	-	Not Detected	0	Not Detected	21/4/15	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPE1335	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE1335	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE1335	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE1335	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Monitor Phase 58

								Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
								TM132	TM133	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181
								%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								Commercial RBSI 1%												
Customer	Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	<0.35	<1	<0.6	<0.02	<0.9	<1.4	<0.7	<0.14	<0.2	<1	<0.2	<1.9	
IP2579	IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	1.72	7.12	10.6	0.339	19.4	11.4	18.2	<0.14	19.2	<1	<1	24.9	57.2
	IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.34	9.71	0.434	13.6	18.4	22.5	<0.14	26.3	<1	<1	15.1	87.9
	IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	4.6	9.92	9.56	0.429	28.4	25.4	36.5	<0.14	21.6	<1	<1	50.3	98.2
	IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.39	47.6	1.68	15	70.6	121	<0.14	33.3	<1	<1	31.2	191
	IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.5	11.9	0.35	10.7	21.7	26.8	<0.14	19.3	<1	<1	12.5	86.8
	IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.47	7.92	0.418	9.47	19.2	38.1	<0.14	21.6	<1	<1	12.1	128
	IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.86	6.15	0.38	9.66	10.3	12.5	<0.14	20.8	<1	<1	10.9	60.2
	IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.05	15.9	0.583	10.9	39.3	46	<0.14	29.5	<1	<1	14.6	147
	IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.36	23.2	0.686	13.1	42.5	32	<0.14	18.6	<1	<1	17	75.7
	IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.14	8.56	0.412	12.2	16.4	16.1	<0.14	23.5	<1	<1	13.5	67.8
IP2605	IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.08	37.3	1.07	21.9	116	135	<0.14	40.1	<1	<1	47.8	488
	IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.73	47.1	1.34	16.9	97.2	59	<0.14	23.8	<1	<1	20.5	201
	IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.64	479	9.69	18.3	2900	933	<0.14	43.6	<1	<1	32.6	3890
	IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.37	6.88	0.379	11	14	16	<0.14	25.7	<1	<1	13.5	84.3
	IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.39	7.5	0.285	17.9	6.78	13.5	<0.14	13.6	<1	<1	23.3	52.7
	IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.74	7.45	0.469	11	13.5	17.9	<0.14	20.4	<1	<1	12.4	66.1
	IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.37	7.86	0.445	10.8	17	14.3	<0.14	21.5	<1	<1	13.2	53.7
	IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.9	7.51	0.4	11.6	11.4	14.4	<0.14	20.9	<1	<1	12.2	54.1
	IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.97	6.54	0.346	10.4	11.6	13.7	<0.14	18.7	<1	<1	11.6	48.9
	IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	9.06	10.8	0.508	11.2	32.9	108	<0.14	36.8	<1	<1	13.5	110
IP2695	IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7	7.97	0.402	11.7	11.4	13.4	<0.14	22.3	<1	<1	12.8	55.6
	IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	0.859	7.17	8.57	0.375	13.7	11.1	11.7	<0.14	22.1	<1	<1	13.7	51.5
	IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.18	8.46	0.435	12.1	13.6	15.3	<0.14	24	<1	<1	13.6	62.6
	IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.07	7.77	0.385	10.1	13.5	12	<0.14	20.4	<1	<1	11.7	50.1
	IP2701	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	2.55	7.52	9.45	0.564	13.1	18.7	18.5	<0.14	21.8	<1	<1	14.5	92.7
	IP2701	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	5.57	6.81	0.294	13.2	10.7	12.6	<0.14	26.1	<1	<1	13.9	76.5
	TPE1256	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.64	23.5	0.868	10.4	121	59.4	<0.14	30.6	<1	<1	14.3	234
	TPE1256	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.4	26.9	1.4	14.8	64.3	200	<0.14	32.6	<1	<1	19.6	208
	TPE1256	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.14	8.29	0.44	11	26	19.1	<0.14	21	<1	<1	11	80.2

Monitor Phase 58

Monitor Phase 58						GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	Methyl tertiary butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	sum of detected mpo xylene by GC	sum of detected BTEX by GC	Aliphatics C6	Aliphatics >C5- Aliphatics C8	Aliphatics >C6- Aliphatics C10	Aliphatics >C8- Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Total Aliphatics >C12-C44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Total Aromatics >EC12-EC44	Total Aliphatics & Aromatics >C5-C44			
						TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM089	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173	TM173
						%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial RBSI 1%										5000	389000																											
Customer Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	<44	<5	<10	<2	<3	<6	<3	<9	<24	<10	<10	<10	<10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92	<176	<20	<40	<8	<12	<24	<12	<9	<24	<40	<40	<40	<40	4130	19300	74100	22700	120000	<40	<40	<40	<40	<40	371	1410	55000	44500	20200	101000	222000	
IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	86	66300	<20	<40	<8	<12	<24	<12	<9	<24	57.1	1850	8080	30500	397000	181000	158000	27700	763000	<40	<40	5390	20400	94600	47900	89600	37900	17100	270000	1100000		
IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	40	1520	<20	<40	19	<12	<24	<12	<9	<24	65.5	249	204	504	6500	20700	98600	28500	154000	<40	<40	138	336	1860	9850	58200	30900	14700	101000	257000		
IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	48	4930	<20	<40	<8	<12	<24	<12	<9	<24	54.7	433	753	1900	138000	421000	1180000	435000	2170000	<40	<40	521	1270	15200	84300	963000	677000	297000	1740000	3920000		
IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	106	339000	<20	52.6	<8	<12	<24	<12	<9	52.6	1310	23100	59400	130000	532000	330000	267000	41000	1170000	52.6	<40	39600	86400	637000	142000	195000	67300	27800	1040000	2550000		
IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	74	84100	<20	<40	<8	<12	<24	<12	<9	<24	140	5140	13500	33800	125000	84300	79500	17000	305000	<40	<40	8980	22500	54200	29600	46300	15500	6650	146000	535000		
IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	107	124000	<20	<40	<8	<12	<24	<12	<9	<24	324	8330	17700	51800	131000	74200	51900	9650	266000	<40	<40	11800	34600	57000	21200	25300	8110	3490	112000	502000		
IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	34	196	<20	<40	9.54	<12	<24	<12	<9	<24	<40	<40	<40	60.4	4580	13900	31500	17500	67600	<40	<40	<40	40.3	2190	7020	32400	17200	7330	58900	127000		
IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	116	54500	59.3	<40	<8	<12	<24	<12	<9	<24	<40	4060	9260	20900	47700	40200	53800	25200	167000	<40	<40	6170	13900	30000	16600	45700	22200	9070	115000	336000		
IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	122	192000	876	<40	<8	<12	<24	<12	<9	<24	423	41000	40000	49600	346000	139000	150000	33600	669000	<40	<40	26700	33100	145000	50500	93200	37300	15600	326000	1190000		
IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	13100	<20	<40	<8	48	<24	68.4	68.4	116	<40	199	1320	6330	9040	29200	100000	34800	173000	<40	<40	994	4220	2130	4170	56500	45900	19000	109000	295000		
IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	156000	<20	<40	<8	<12	<24	<12	<9	<24	430	12300	29300	56600	239000	147000	125000	20400	532000	<40	<40	19500	37700	246000	71300	115000	44800	19400	477000	1160000		
IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	72	4600	<20	<40	<8	46.6	<24	<12	<9	46.6	<40	433	1230	1230	14600	31500	60200	17400	124000	<40	<40	867	819	3950	7700	33800	14600	5680	60100	188000		
IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	110	611000	<50	177	<20	<30	<60	<30	<9	177	1660	86200	179000	135000	1230000	839000	464000	73700	2610000	177	<100	119000	89700	658000	363000	278000	86600	33100	1390000	4600000		
IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	394	<20	<40	<8	<12	<24	<12	<9	<24	<40	70.7	84.4	104	<100	<100	477	<100	477	<40	<40	55.9	68.4	<100	<100	656	306	181	961	1830		
IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	98	<176	<20	<40	<8	<12	<24	<12	<9	<24	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	<100	<100	<100	<100	<100	<100	<100	<100	
IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	98	1330000	<100	<200	<40	<60	<120	<60	<9	<24	25900	343000	304000	271000	1010000	323000	361000	89200	1790000	<200	<200	203000	181000	568000	102000	167000	60700	25600	897000	4010000		
IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	120	726000	<100	<200	<40	<60	<120	<60	<9	<24	13600	196000	168000	141000	112000	35200	34000	6060	187000	<200	<200	112000	94200	195000	25300	40800	15000	6360	277000	1190000		
IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	417000	<20	<40	<8	<12	<24	<12	<9	<24	11200	123000	97000	73100	611000	144000	132000	19200	907000	<40	<40	64700	48700	383000	51400	84700	30400	13100	549000	1870000		
IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	25	828	<20	<40	<8	<12	<24	<12	<9	<24	83.9	225	128	175	2900	5280	23400	15800	47400	<40	<40	92.5	116	1940	3020	15700	6350	2860	27000	75200		
IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	79	71900	<20	<40	<8	<12	<24	<12	<9	<24	<40	1730	10300	31800	441000	63500	28700	1960	535000	<40	<40	6840	21200	207000	19100	15800	4870	2240	247000	854000		
IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	87	172000	<50	<100	<20	<30	<60	<30	<9	<24	<100	3460	21700	79300	743000	103000	53800	7980	907000	<100	<100	14400	52800	346000	30400	25100	6820	2680	408000	1490000		
IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	100	9010	<20	<40	<8	<12	<24	<12	<9	<24	<40	427	881	4250	1080	<100	<100	<100	1080	<40	<40	588	2830	4320	290	1500	<100	6360	16500			
IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90	5920	<20	&lt																												

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Monitor Phase 58										Commercial RBSI 1%																		PAH, Total Detected USEPA 16																		
		Naphthalene-d8 % recovery**		Acenaphthene-d10 % recovery**		Phenanthrene-d10 % recovery**		Chrysene-d12 % recovery**		Perylene-d12 % recovery**		Naphthalene		Acenaphthylene		Acenaphthene		Fluorene		Phenanthrene		Anthracene		Fluoranthene		Pyrene		Benz(a)anthracene		Chrysene		Benzo(b)fluoranthene		Benzo(k)fluoranthene		Benzo(a)pyrene		Indeno(1,2,3-cd)pyrene		Dibenzo(a,h)anthracene		Benzo(g,h,i)perylene		PAH, Total Detected USEPA 16		
		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218		TM218				
		%		%		%		%		%		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg						
		Sample Received		Final Instruction Date		Report Completed Date		SDG				<9		<12		<8		<10		<15		<16		<17		<15		<14		<10		<15		<14		<15		<18		<23		<24		<118		
Customer Sample ID	Depth	Sampled Date	Received Date	Instruction Date	Completed Date	SDG																																								
IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	100	102	98.5	96.4	96.6	<9	<9	<12	<8	<10	28.3	<16	<17	<15	<14	13.8	<15	<14	<15	<14	<15	<18	<23	<24	<118	<118	<118	<118	<118	<118	<118	<118	<118	<118	<118	<118	<118			
IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.1	96.1	92.7	92.1	103	328	<12	79.7	255	401	73.7	43.2	36.8	<14	71.6	72.4	<14	18.9	<18	<23	<24	1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	107	109	106	109	111	110	24.1	71.4	77.3	503	129	847	855	785	752	1330	478	915	461	181	518	8030	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390
IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	93.8	96.5	93.8	87.4	97.8	165	<60	<40	<50	734	<80	749	593	211	419	642	194	412	314	<115	435	4870	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390
IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	112	105	105	103	2480	<12	420	981	1010	229	417	78.6	<14	88	52.7	<14	<15	<18	<23	<24	5380	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	104	101	103	104	285	<12	140	204	404	67.7	113	110	63.8	100	118	30	59.1	35.2	<18	49.3	1740	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	105	101	96.6	94.1	151	<12	61.4	170	363	<16	29.5	<15	<14	135	84.1	<14	<15	<18	<23	<24	995	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94.5	95.3	91.8	92.5	103	98.3	<12	22.7	44.7	267	37.3	138	130	97.4	149	207	41.2	92.5	63.5	26.7	83.3	1500	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.1	92.1	88.3	91.4	102	289	<12	37.7	81.3	245	49.6	50.6	600	422	381	636	188	482	236	72.6	286	4510	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	108	104	105	102	1470	<12	412	660	833	163	427	64.5	<14	104	71.5	<14	<15	<18	<23	<24	3820	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	93.7	95.4	89.7	83.2	85.6	33.6	<12	10.2	<10	173	21.3	203	173	78.7	124	154	58.9	86	46.8	<23	<24	59	1220	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390		
IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	96.1	98.8	93.5	93.3	103	847	<12	189	432	571	131	95.1	90.1	40.8	126	143	24	44.2	28.5	<23	<24	2800	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90.8	93.2	89.7	84.3	89.5	50.8	<12	<8	<10	158	<16	119	81.9	68.5	93.5	141	44.9	60.5	50.3	<23	59.2	927	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90.6	96	87.9	88.5	99.6	1790	<12	1370	2210	3420	920	134	188	<14	120	71.6	16.3	36.2	<18	<23	<24	10300	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	95.4	94.6	90.7	90	102	<9	<12	<8	<10	<15	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118			
IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	97.4	101	97.9	97.2	106	<9	<12	<8	<10	<15	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118	<23	<24	<118			
IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	107	102	103	99.7	1650	<12	452	617	542	112	44.4	59.1	<14	38.5	23.4	<14	<15	<18	<23	<24	3540	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.2	94.4	90.6	89.7	100	371	<12	165	202	128	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	938	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	95.5	97.6	90.5	90.5	102	2370	<12	477	575	379	82.4	25.7	34.3	<14	28	18.7	<14	<15	<18	<23	<24	3990	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	99.2	101	97.1	92.8	90.9	137	15.1	103	161	894	172	695	472	277	327	369	112	215	108	46.4	126	4230	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	106	102	102	103	1180	<12	191	290	238	39	63.9	50.6	24	62.7	57.4	<14	17.4	<18	<23	<24	2220	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	111	105	103	99	2470	<12	407	599	292	57.1	24.5	27.5	<14	31.3	29.3	<14	<15	<18	<23	<24	3940	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	102	103	99.1	96.3	96.9	31.2	<12	13.3	48.7	66.9	<16	<17	<15	<14	22.3	28.2	<14	<15	<18	<23	<24	211	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	106	101	96.9	95.3	57.6	<12	12.7	<10	38.8	<16	<17	<15	<14	20.3	40	<14	<15	<18	<23	<24	169	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2701	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	109	112	108	104	99.8	77	<12	40.9	23	225	<16	21.7	<15	<14	134	103	<14	<15	<18	<23	<24	624	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390	<23	<24	<1390			
IP2701	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13																																									

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								Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
								TM132	TM133	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181	TM181
								%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								Commercial RBSI 1%												
Customer	Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	<0.35	<1	<0.6	<0.02	<0.9	<1.4	<0.7	<0.14	<0.2	<1	<0.2	<1.9	
IP2579	IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	1.72	7.12	10.6	0.339	19.4	11.4	18.2	<0.14	19.2	<1	<1	24.9	57.2
	IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.34	9.71	0.434	13.6	18.4	22.5	<0.14	26.3	<1	<1	15.1	87.9
	IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	4.6	9.92	9.56	0.429	28.4	25.4	36.5	<0.14	21.6	<1	<1	50.3	98.2
	IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.39	47.6	1.68	15	70.6	121	<0.14	33.3	<1	<1	31.2	191
	IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.5	11.9	0.35	10.7	21.7	26.8	<0.14	19.3	<1	<1	12.5	86.8
	IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.47	7.92	0.418	9.47	19.2	38.1	<0.14	21.6	<1	<1	12.1	128
	IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.86	6.15	0.38	9.66	10.3	12.5	<0.14	20.8	<1	<1	10.9	60.2
	IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.05	15.9	0.583	10.9	39.3	46	<0.14	29.5	<1	<1	14.6	147
	IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.36	23.2	0.686	13.1	42.5	32	<0.14	18.6	<1	<1	17	75.7
	IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.14	8.56	0.412	12.2	16.4	16.1	<0.14	23.5	<1	<1	13.5	67.8
IP2605	IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.08	37.3	1.07	21.9	116	135	<0.14	40.1	<1	<1	47.8	488
	IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.73	47.1	1.34	16.9	97.2	59	<0.14	23.8	<1	<1	20.5	201
	IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.64	479	9.69	18.3	2900	933	<0.14	43.6	<1	<1	32.6	3890
	IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.37	6.88	0.379	11	14	16	<0.14	25.7	<1	<1	13.5	84.3
	IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.39	7.5	0.285	17.9	6.78	13.5	<0.14	13.6	<1	<1	23.3	52.7
	IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.74	7.45	0.469	11	13.5	17.9	<0.14	20.4	<1	<1	12.4	66.1
	IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.37	7.86	0.445	10.8	17	14.3	<0.14	21.5	<1	<1	13.2	53.7
	IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.9	7.51	0.4	11.6	11.4	14.4	<0.14	20.9	<1	<1	12.2	54.1
	IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	6.97	6.54	0.346	10.4	11.6	13.7	<0.14	18.7	<1	<1	11.6	48.9
	IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	9.06	10.8	0.508	11.2	32.9	108	<0.14	36.8	<1	<1	13.5	110
IP2695	IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7	7.97	0.402	11.7	11.4	13.4	<0.14	22.3	<1	<1	12.8	55.6
	IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	0.859	7.17	8.57	0.375	13.7	11.1	11.7	<0.14	22.1	<1	<1	13.7	51.5
	IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.18	8.46	0.435	12.1	13.6	15.3	<0.14	24	<1	<1	13.6	62.6
	IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.07	7.77	0.385	10.1	13.5	12	<0.14	20.4	<1	<1	11.7	50.1
	IP2701	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	2.55	7.52	9.45	0.564	13.1	18.7	18.5	<0.14	21.8	<1	<1	14.5	92.7
	IP2701	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	5.57	6.81	0.294	13.2	10.7	12.6	<0.14	26.1	<1	<1	13.9	76.5
	TPE1256	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	8.64	23.5	0.868	10.4	121	59.4	<0.14	30.6	<1	<1	14.3	234
	TPE1256	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.4	26.9	1.4	14.8	64.3	200	<0.14	32.6	<1	<1	19.6	208
	TPE1256	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	-	7.14	8.29	0.44	11	26	19.1	<0.14	21	<1	<1	11	80.2

Monitor Phase 58

Monitor Phase 58						GRO Surrogate % recovery** TM089	GRO TOT (Moisture Corrected) TM089	Methyl tertiary butyl ether (MTBE) TM089	Benzene TM089	Toluene TM089	Ethylbenzene TM089	m,p-Xylene TM089	o-Xylene TM089	sum of detected mpo xylene by GC TM089	sum of detected BTEX by GC TM089	Aliphatics C6 TM089	Aliphatics >C5- Aliphatics C8 TM089	Aliphatics >C6- Aliphatics C10 TM089	Aliphatics >C8- Aliphatics >C10-C12 TM089	Aliphatics >C12-C16 TM173	Aliphatics >C16-C21 TM173	Aliphatics >C21-C35 TM173	Aliphatics >C35-C44 TM173	Total Aliphatics >C12-C44 TM173	Aromatics >EC5-EC7 TM089	Aromatics >EC7-EC8 TM089	Aromatics >EC8-EC10 TM089	Aromatics >EC10-EC12 TM089	Aromatics >EC12-EC16 TM173	Aromatics >EC16-EC21 TM173	Aromatics >EC21-EC35 TM173	Aromatics >EC35-EC44 TM173	Aromatics >EC40-EC44 TM173	Total Aromatics >EC12-EC44 TM173	Total Aliphatics & Aromatics >C5-C44 TM173		
Commercial RBSI 1%						%	µg/kg	µg/kg	µg/kg	5000	389000	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Customer Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	<44	<5	<10	<2	<3	<6	<3	<9	<24	<10	<10	<10	<10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92	<176	<20	<40	<8	<12	<24	<12	<9	<24	<40	<40	<40	<40	4130	19300	74100	22700	120000	<40	<40	<40	<40	<40	371	1410	55000	44500	20200	101000	222000
IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	86	66300	<20	<40	<8	<12	<24	<12	<9	<24	57.1	1850	8080	30500	397000	181000	158000	27700	763000	<40	<40	5390	20400	94600	47900	89600	37900	17100	270000	1100000	
IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	40	1520	<20	<40	19	<12	<24	<12	<9	<24	65.5	249	204	504	6500	20700	98600	28500	154000	<40	<40	138	336	1860	9850	58200	30900	14700	101000	257000	
IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	48	4930	<20	<40	<8	<12	<24	<12	<9	<24	54.7	433	753	1900	138000	421000	1180000	435000	2170000	<40	<40	521	1270	15200	84300	963000	677000	297000	1740000	3920000	
IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	106	339000	<20	52.6	<8	<12	<24	<12	<9	52.6	1310	23100	59400	130000	532000	330000	267000	41000	1170000	52.6	<40	39600	86400	637000	142000	195000	67300	27800	1040000	2550000	
IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	74	84100	<20	<40	<8	<12	<24	<12	<9	<24	140	5140	13500	33800	125000	84300	79500	17000	305000	<40	<40	8980	22500	54200	29600	46300	15500	6650	146000	535000	
IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	107	124000	<20	<40	<8	<12	<24	<12	<9	<24	324	8330	17700	51800	131000	74200	51900	9650	266000	<40	<40	11800	34600	57000	21200	25300	8110	3490	112000	502000	
IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	34	196	<20	<40	9.54	<12	<24	<12	<9	<24	<40	<40	<40	60.4	4580	13900	31500	17500	67600	<40	<40	<40	40.3	2190	7020	32400	17200	7330	58900	127000	
IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	116	54500	59.3	<40	<8	<12	<24	<12	<9	<24	<40	4060	9260	20900	47700	40200	53800	25200	167000	<40	<40	6170	13900	30000	16600	45700	22200	9070	115000	336000	
IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	122	192000	876	<40	<8	<12	<24	<12	<9	<24	423	41000	40000	49600	346000	139000	150000	33600	669000	<40	<40	26700	33100	145000	50500	93200	37300	15600	326000	1190000	
IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	13100	<20	<40	<8	48	<24	68.4	68.4	116	<40	199	1320	6330	9040	29200	100000	34800	173000	<40	<40	994	4220	2130	4170	56500	45900	19000	109000	295000	
IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	156000	<20	<40	<8	<12	<24	<12	<9	<24	430	12300	29300	56600	239000	147000	125000	20400	532000	<40	<40	19500	37700	246000	71300	115000	44800	19400	477000	1160000	
IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	72	4600	<20	<40	<8	46.6	<24	<12	<9	46.6	<40	433	1230	1230	14600	31500	60200	17400	124000	<40	<40	867	819	3950	7700	33800	14600	5680	60100	188000	
IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	110	611000	<50	177	<20	<30	<60	<30	<9	177	1660	86200	179000	135000	1230000	839000	464000	73700	2610000	177	<100	119000	89700	658000	363000	278000	86600	33100	1390000	4600000	
IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	394	<20	<40	<8	<12	<24	<12	<9	<24	<40	70.7	84.4	104	<100	<100	477	<100	477	<40	<40	55.9	68.4	<100	<100	656	306	181	961	1830	
IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	98	<176	<20	<40	<8	<12	<24	<12	<9	<24	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	<100	<100	<100	<100	<100	<100	<100	
IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	98	1330000	<100	<200	<40	<60	<120	<60	<9	<24	25900	343000	304000	271000	1010000	323000	361000	89200	1790000	<200	<200	203000	181000	568000	102000	167000	60700	25600	897000	4010000	
IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	120	726000	<100	<200	<40	<60	<120	<60	<9	<24	13600	196000	168000	141000	112000	35200	34000	6060	187000	<200	<200	112000	94200	195000	25300	40800	15000	6360	277000	1190000	
IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94	417000	<20	<40	<8	<12	<24	<12	<9	<24	11200	123000	97000	73100	611000	144000	132000	19200	907000	<40	<40	64700	48700	383000	51400	84700	30400	13100	549000	1870000	
IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	25	828	<20	<40	<8	<12	<24	<12	<9	<24	83.9	225	128	175	2900	5280	23400	15800	47400	<40	<40	92.5	116	1940	3020	15700	6350	2860	27000	75200	
IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	79	71900	<20	<40	<8	<12	<24	<12	<9	<24	<40	1730	10300	31800	441000	63500	28700	1960	535000	<40	<40	6840	21200	207000	19100	15800	4870	2240	247000	854000	
IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	87	172000	<50	<100	<20	<30	<60	<30	<9	<24	<100	3460	21700	79300	743000	103000	53800	7980	907000	<100	<100	14400	52800	346000	30400	25100	6820	2680	408000	1490000	
IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	100	9010	<20	<40	<8	<12	<24	<12	<9	<24	<40	427	881	4250	1080	<100	<100	<100	1080	<40	<40	588	2830	4320	290	1500	258	<100	6360	16500	
IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90	5920	<20	<40	<8	<12	<24	<12	<9	<24	<40	281	461	2900	5090	<100	<100	<100	5090	<40	<40	308	1940	4990	<100	293	<100				

Monitor Phase 58

Monitor Phase 58						Naphthalene-d8 % recovery** TM218	Acenaphthene-d10 % recovery** TM218	Phenanthrene-d10 % recovery** TM218	Chrysene-d12 % recovery** TM218	Perylene-d12 % recovery** TM218	Naphthalene TM218	Acenaphthylene TM218	Acenaphthene TM218	Fluorene TM218	Phenanthrene TM218	Anthracene TM218	Fluoranthene TM218	Pyrene TM218	Benzo(a)anthracene TM218	Chrysene TM218	Benzo(b)fluoranthene TM218	Benzo(k)fluoranthene TM218	Benzo(a)pyrene TM218	Indeno(1,2,3-cd)pyrene TM218	Dibenzo(a,h)anthracene TM218	Benzo(g,h,i)perylene TM218	PAH, Total Detected USEPA 16 TM218	
						%	%	%	%	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
						Commercial RBSI 1%																						
Customer Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	<9	<12	<8	<10	<15	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	<118					
IP2579	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	100	102	98.5	96.4	96.6	<9	<12	<8	<10	28.3	<16	<17	<15	<14	13.8	<15	<14	<15	<18	<23	<24	<118
IP2579	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.1	96.1	92.7	92.1	103	328	<12	79.7	255	401	73.7	43.2	36.8	<14	71.6	72.4	<14	18.9	<18	<23	<24	1390
IP2600	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	107	109	106	109	111	110	24.1	71.4	77.3	503	129	847	855	785	752	1330	478	915	461	181	518	8030
IP2600	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	93.8	96.5	93.8	87.4	97.8	165	<60	<40	<50	734	<80	749	593	211	419	642	194	412	314	<115	435	4870
IP2600	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	112	105	105	103	2480	<12	420	981	1010	229	417	78.6	<14	88	52.7	<14	<15	<18	<23	<24	5380
IP2600	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	104	101	103	104	285	<12	140	204	404	67.7	113	110	63.8	100	118	30	59.1	35.2	<23	49.3	1740
IP2600	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	105	101	96.6	94.1	151	<12	61.4	170	363	<16	29.5	<15	<14	135	84.1	<14	<15	<18	<23	<24	995
IP2602	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94.5	95.3	91.8	92.5	103	98.3	<12	22.7	44.7	267	37.3	138	130	97.4	149	207	41.2	92.5	63.5	26.7	83.3	1500
IP2602	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.1	92.1	88.3	91.4	102	289	<12	37.7	81.3	245	49.6	506	600	422	381	636	188	482	236	72.6	286	4510
IP2602	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	108	104	105	102	1470	<12	412	660	833	163	427	64.5	<14	104	71.5	<14	<15	<18	<23	<24	3820
IP2605	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	93.7	95.4	89.7	83.2	85.6	33.6	<12	10.2	<10	173	21.3	203	173	78.7	124	154	58.9	86	46.8	<23	59	1220
IP2605	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	96.1	98.8	93.5	93.3	103	847	<12	189	432	571	131	95.1	90.1	40.8	126	143	24	44.2	28.5	<23	34.3	2800
IP2607	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90.8	93.2	89.7	84.3	89.5	50.8	<12	<8	<10	158	<16	119	81.9	68.5	93.5	141	44.9	60.5	50.3	<23	59.2	927
IP2607	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	90.6	96	87.9	88.5	99.6	1790	<12	1370	2210	3420	920	134	188	<14	120	71.6	16.3	36.2	<18	<23	<24	10300
IP2693	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	95.4	94.6	90.7	90	102	<9	<12	<8	<10	<15	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	<118
IP2693	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	97.4	101	97.9	97.2	106	<9	<12	<8	<10	<15	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	<118
IP2693	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	107	102	103	99.7	1650	<12	452	617	542	112	44.4	59.1	<14	38.5	23.4	<14	<15	<18	<23	<24	3540
IP2693	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	92.2	94.4	90.6	89.7	100	371	72.7	165	202	128	<16	<17	<15	<14	<10	<15	<14	<15	<18	<23	<24	938
IP2693	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	95.5	97.6	90.5	90.5	102	2370	<12	477	575	379	82.4	25.7	34.3	<14	28	18.7	<14	<15	<18	<23	<24	3990
IP2695	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	99.2	101	97.1	92.8	90.9	137	15.1	103	161	894	172	695	472	277	327	369	112	215	108	46.4	126	4230
IP2695	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	106	102	102	103	1180	<12	191	290	238	39	63.9	50.6	24	62.7	57.4	<14	17.4	<18	<23	<24	2220
IP2695	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	111	105	103	99	2470	<12	407	599	292	57.1	24.5	27.5	<14	31.3	29.3	<14	<15	<18	<23	<24	3940
IP2695	3.50-3.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	102	103	99.1	96.3	96.9	31.2	<12	13.3	48.7	66.9	<16	<17	<15	<14	22.3	28.2	<14	<15	<18	<23	<24	211
IP2695	4.50-4.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	104	106	101	96.9	95.3	57.6	<12	12.7	<10	38.8	<16	<17	<15	<14	20.3	40	<14	<15	<18	<23	<24	169
IP2701	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	109	112	108	104	99.8	77	<12	40.9	23	225	<16	21.7	<15	<14	134	103	<14	<15	<18	<23	<24	624
IP2701	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	101	109	103	102	99.6	2350	<12	898	1260	1360	311	38.2	63.8	<14	46.4	28.2	<14	<15	<18	<23	<24	6360
TPE1256	0.50-0.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	91.2	92.2	90	89.5	100	84.6	<12	30.2	47.6	226	32.9	163	139	125	145	251	62.7	124	80.2	34.5	116	1660
TPE1256	1.50-1.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94.2	95.9	93	93	103	154	<12	<8	78	693	711	900	799	398	598	1070	992	545	353	<23	516	7810
TPE1256	2.50-2.50	01/10/2015	03/10/2015	14/10/2015	13/10/2015	151003-64	94.3	93	90.8	96.6	109	1050	<12	228	411	355	90.2	20	26.3	<14	53.6	29.9	<14	<15	<18	<23	<24	2260

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP 1667	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.86	997	11.9	20.5	892	4070	9.02	mg/kg	48.1
IP 1668	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.01	94	2.43	22.3	322	1010	0.843	<1	29.8
IP 1669	0.30-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.22	46	1.98	20.7	116	288	1.93	<1	22.2
IP 1670	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.36	47.3	1.61	14	143	150	<0.14	30.7	<1
IP 1735	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.47	7.87	0.352	8.72	11	19.3	<0.14	19.5	<1
IP 1737	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	1.49	6.48	14.6	1.5	17.4	47.8	24.3	<0.14	13	<1
IP 1754	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.32	83.4	2.21	16.2	193	135	<0.14	37.4	1.72
IP 1754	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.97	266	2.48	15.7	403	2050	1.17	28.7	<1
IP 1754	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.53	9.71	0.22	11.6	17.6	21	<0.14	23.5	<1
IP 1756	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.8	240	2.93	16.8	352	2130	<0.14	44.6	<1
IP 1756	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.12	46.9	1.24	14.4	84.7	117	<0.14	24.1	1.04
IP 1756	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	6.94	10.5	0.393	11	21.2	41.3	<0.14	21.4	<1
IP 1758	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	8.15	199	3.28	16.9	345	2750	0.875	30.8	<1
IP 1760	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	5.98	65.7	2.4	14.4	133	79.7	<0.14	24.1	<1
IP 1760	1.00-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	6.23	21.7	0.795	13.6	44.6	26.1	<0.14	14.9	<1
IP 1823	2.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.11	13.2	0.45	12.3	30.7	72.3	<0.14	26.8	<1
IP 1826	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	8.08	327	17.7	16.3	690	13300	<0.14	65.2	1.24
IP 1826	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.33	10.5	0.14	12.6	13.6	13	<0.14	22.1	<1
IP 1835	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	8.14	29.7	1.18	21.1	73.1	207	0.198	29.7	<1
IP 1835	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.38	8.06	0.394	12	14.1	20.8	<0.14	16.3	<1
IP 1836	1.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.39	6.71	0.398	11.3	11.6	18.2	<0.14	15.5	<1
IP 1840	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.67	7.18	0.106	13.3	15.5	13.5	<0.14	24.3	<1
IP 1840	2.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.68	6.62	0.425	10	11.5	11.8	<0.14	24	<1
IP 1841	0.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	7.88	6.65	123	1.37	14.9	492	176	0.256	20.8	<1
IP 1841	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.1	10.3	0.803	16.4	22	21.5	<0.14	18.1	<1
IP 1842	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	6.22	5.47	0.404	12.2	15.5	11	<0.14	21	<1
IP 1848	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.42	24.6	0.984	16.1	50.2	98.8	<0.14	25.7	<1
IP 1848	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	6.34	12.2	0.68	18	18.1	18.8	<0.14	17.6	<10
IP 1848	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.67	7.16	0.424	9.54	<14	11.1	<0.14	21.1	<10
IP 1905	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	6.24	13.3	0.55	19	28.5	21.5	<0.14	23.9	<1
IP 1905	1.60-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	6.69	11.1	0.129	23.2	14.6	14.2	<0.14	19.4	<1
IP 1905	2.60-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.07	7.08	0.482	13.4	15.6	14.5	<0.14	31.2	<10
IP 1905	3.30-	140806-8	04/08/2014	06/08/2014	18/08/2014	8.34	6.34	5.4	0.371	21.5	44.6	22	<0.14	36.8	<1
IP 1908	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.24	46.3	1.47	18.2	160	137	1.04	26	<1
IP 1908	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.91	9.6	0.261	13	16.5	12.8	<0.14	19.5	<1
IP 1909	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	12	6.37	41.5	1.76	12.3	89.4	103	0.364	17	<1
IP 1909	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.76	13.9	0.275	13.6	12.6	15.8	<0.14	15.2	<1
IP 1909	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.8	7.01	0.224	13.2	15	12.8	<0.14	24.1	<1
IP 1911	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	2.71	7.64	18.7	0.654	13.1	28.9	39.8	<0.14	16	<1
IP 1911	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.95	8.35	0.122	12	13.8	12.6	<0.14	19.5	<1
IP 1920	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	7.8	78.2	4.53	34.9	187	233	12.4	43	1.49
IP 1920	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.01	3.34	0.0906	14	16	13.2	<0.14	22.4	<1
IP 1921	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.57	8.38	0.474	4.87	31.2	30.4	0.157	5.13	<1
IP 1921	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	5.46	2.72	0.11	13.9	5.67	10.3	<0.14	13.2	<1
IP 1922	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	5.58	9.04	0.402	14.5	21	15	<0.14	39.5	<1
IP 1922	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.97	7.05	0.387	12	11.6	10.1	<0.14	22	<1
IP 1923	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.52	65.9	2.3	119	507	2060	10.6	120	<10
IP 1923	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.27	8.02	0.314	12.1	18.5	15.2	<0.14	39.4	<1
IP 1929	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	2.07	5.49	10.5	0.29	16.2	16.1	16.6	<0.14	18.1	<1
IP 1931	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.13	9.5	0.236	12.8	22.7	19.1	<0.14	17.6	<1
IP 1931	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	7.11	10.4	0.201	14.1	22.1	16.4	<0.14	24.7	<1
IP 1931	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.49	6.04	0.27	9.25	9.66	11.6	<0.14	19.8	<1
IP 1931	3.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.96	6.75	0.323	9.05	12.1	11.7	<0.14	19.3	<1
IP 1932	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	6.88	34.5	2.06	18.8	75.2	211	<0.14	35.1	<1
IP 1932	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	6.73	30.6	1.52	18.3	71	194	<0.14	27.8	<10
IP 1932	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	7.08	10.1	0.386	14.2	21.7	42.9	<0.14	25.8	<10
IP 1994	0.50-	140807-37	05/08/2014	07/08/2014	03/09/2014	-	6.38	19.3	0.664	17.4	38.9	67.4	<0.14	23	<1
IP 1998	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	15.1	5.7	202	0.797	8.77	442	368	0.175	19.2	1.9
IP 1998	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	5.7	7.54	0.291	13.7	19.2	15.5	<0.14	24	<1
IP 2008	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.79	6.54	1.13	9.39	29.2	18.3	<0.14	18.7	3.12
IP 2008	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	5.38	8.08	0.274	12	16.6	16.1	<0.14	24.1	<1
IP 2009	0.50-	140812-31	08/08/2014	12/08/2014	27/08/2014	-	7.67	16.8	0.397	8.3	39.7	60.3	<0.14	9.45	1.23
IP 2013	0.50-	140807-37	05/08/2014	07/08/2014	19/08/2014	-	6	8.26	0.327	14.1	14.2	14.2	<0.14	11.6	<1
IP 2014	0.50-	140807-37	05/08/2014	07/08/2014	19/08/2014	-	5.89	61.9	2.07	15	118	69.2	<0.14	18.4	1.76
IP 2015	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	5.84	61.7	1.5	14.5	142	63.1	<0.14	15.3	1.37
IP 2090	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	6.83	13.6	0.384	13.9	28.6	24.9	<0.14	19.6	<1
IP 2092	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	1.37	6.79	8.65	0.215	15.1	15.1	12.9	<0.14	20.7	<1
IP 2107	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	5.89	15.2	0.546	14.4	19.5	18.2	<0.14	19.6	<1
IP 2112	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	6.1	12.5	0.315	12.6	22.8	18.5	<0.14	23.2	<1
IP 2112	1.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	5.19	7.89	0.384	12.7	16.6	15.6	<0.14	27.9	<1
IP 2185	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	7.66	9.33	0.372	13.3	15.2	22.4	<0.14	16.9	<1
IP 2185	1.50-	1													

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP 2501	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	6.06	45.5	1.26	23.6	111	982	<0.14	28.3	473
IP 2501	0.40-	140818-45	13/08/2014	18/08/2014	04/09/2014	-	6.37	82.7	5.5	17.2	154	197	0.278	69	337
IP 2501	1.50-	140818-45	13/08/2014	18/08/2014	02/09/2014	-	6.07	10.8	0.474	12.2	14.6	25.3	<0.14	21.4	92.9
IP 2582	0.20-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.69	52	0.863	6.47	38.1	12.8	<0.14	3.8	95.8
IP 2582	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.2	7.41	0.225	11.4	8.8	11	<0.14	28	62.1
IP 2582	2.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	6.63	7.36	0.323	11.3	8.16	8.79	<0.14	24.9	58
IP 2583	0.50-	140805-8	01/08/2014	05/08/2014	18/08/2014	-	8.48	52.3	1.13	10.7	151	229	<0.14	17.8	615
IP 2598	0.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	7.01	29.3	1.16	15.9	75.8	169	<0.14	26.4	394
IP 2598	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	7.16	10.7	0.35	10.8	13.8	20.8	<0.14	22	85.4
IP 2879	0.50-	140902-28	28/08/2014	02/09/2014	16/09/2014	-	7.68	20.3	1.11	14.4	62.2	142	<0.14	28.6	415
IP 2879	1.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	6.04	10.4	0.477	12.9	16.3	25.4	<0.14	20.4	95.8
IP 2879	2.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	5.73	8.06	0.425	14.4	12.3	14.1	<0.14	26.1	60.3
IP 2879	3.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	6.11	7.48	0.43	12.5	10.7	12	<0.14	25.5	55.7
TPE 0836	0.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	5.86	22.3	2.05	4.91	21.4	17.4	<0.14	24.2	71.7
TPE 0836	1.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	5.33	17.4	0.421	11.6	12	11.3	<0.14	15.4	54.2
TPE 0928	0.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	6.08	11.5	0.498	19	32.5	25.4	<0.14	37	163
TPE 0928	1.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	6.38	9.31	0.276	13	23	18.5	<0.14	22.1	62.7
TPE 1013	0.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	8.12	26.1	0.729	14.6	47.1	275	<0.14	24.2	720
TPE 1013	1.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	5.93	130	2.91	14.1	204	188	<0.14	34	331
IP 1821	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.99	81.2	2.58	16.8	174	131	<0.14	27.2	329
IP 1821	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.42	32.3	1.06	17.2	49.5	27.7	<0.14	12.4	106
IP 1821	0.90-	140908-37	04/09/2014	08/09/2014	23/09/2014	1.68	5.21	5.36	0.156	12.7	8.96	10.6	<0.14	20	42
IP 1821	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.49	7.01	0.0469	11	9.48	12	<0.14	21.5	54.5
IP 1846	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.54	44.3	1.79	17.1	97.7	78.3	<0.14	16.6	209
IP 1846	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.43	10.7	0.0935	15.1	17.5	17	<0.14	14.9	40
IP 1846	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.43	9.09	0.274	12.6	18.2	18	<0.14	23.3	72.5
IP 1846	2.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.72	9.06	0.296	15	12.4	11.9	<0.14	30.4	66.7
IP 1847	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.01	32.9	1.23	16.6	71.5	145	<0.14	26	280
IP 1847	0.80-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.22	14.8	0.612	18	27.3	46.9	<0.14	19.6	125
IP 1847	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.39	9.83	<0.02	17.7	18.9	14.4	<0.14	21	51.6
IP 1847	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.51	7.3	0.143	11	9.78	11	<0.14	22.1	55.6
IP 1847	3.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.2	6.07	0.203	17.3	19.6	17	<0.14	38.1	87.9
IP 1906	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	5.88	73.3	2.32	16.3	153	242	<0.14	26.8	449
IP 1906	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.97	22.8	0.349	18.6	25.9	39.9	<0.14	11.5	58.3
IP 1906	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.53	7.53	0.28	11.3	9.91	11.2	<0.14	23.1	58.3
IP 1906	2.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.56	8.22	<0.02	10.7	6.35	19.5	<0.14	21	57.4
IP 1927	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.47	72.3	2.13	17.1	142	204	<0.14	30.5	300
IP 1927	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	1.14	6.03	9.79	0.0387	16.7	7.47	13.5	<0.14	14.3	33.7
IP 1927	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.48	8.13	0.147	12.3	21.1	14.9	<0.14	36.8	62.4
IP 1927	1.45-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.95	7.61	0.25	12.3	17.8	14.9	<0.14	35.3	68.3
IP 1928	0.30-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	5.62	15.8	0.546	17.6	25	32.8	<0.14	16.9	108
IP 1928	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	2.71	6.39	10.8	0.249	19.3	16.3	23	<0.14	21	72.7
IP 1928	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	6.51	5.84	0.317	11.6	6.85	10	<0.14	23.2	58.4
IP 1928	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.62	5.6	0.256	11.2	7.59	10.1	<0.14	21.2	54.1
IP 1995	0.20-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.44	33.9	1.5	15.7	69.2	93.5	<0.14	23.3	157
IP 1995	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.05	9.69	0.24	23.1	12.6	22	<0.14	19.2	62.1
IP 1995	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.7	9.01	0.179	15.8	20.4	16	<0.14	29	75.6
IP 2012	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	4.17	6.45	53.3	2.56	17.1	88.6	77.7	<0.14	19.2	257
IP 2012	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	5.52	24.3	0.453	18.2	22.4	25.3	<0.14	13.2	61.6
IP 2012	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.3	8.37	0.186	14.3	15.2	14.4	<0.14	17.5	44.8
IP 2012	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	6.24	5.65	0.196	11.8	7.54	7.33	<0.14	20.5	50.5
IP 2091	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.64	8.07	0.296	12.1	15.1	17.9	<0.14	26.4	71.7
IP 2091	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	5.5	44.8	2.28	20.8	103	169	<0.14	25.9	275
IP 2111	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.84	21.1	1.35	16.7	45.8	79.4	<0.14	16.7	220
IP 2111	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.39	6.18	0.328	12.6	12.2	12.9	<0.14	22.9	70.5
IP 2187	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.52	12.2	0.294	18.8	16.9	19.4	<0.14	17.2	63
IP 2187	0.60-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	5.98	13.6	0.446	18.2	24.6	54.7	0.163	22.5	114
IP 2187	1.60-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.66	7.78	0.343	12.4	13.6	12.8	<0.14	26	69.2
IP 2207	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.95	21.6	0.988	15	84.7	182	<0.14	19.6	261
IP 2207	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.17	19.2	0.841	15.5	72.2	99.6	<0.14	30.6	252
IP 2208	0.30-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	6.1	42.7	2.6	16.8	98.3	101	<0.14	31	314
IP 2208	1.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	2.71	6.14	23.2	0.861	17.4	42.7	39.8	<0.14	15.4	128
IP 2208	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.51	11.5	0.336	16.1	22.9	19.4	<0.14	27.1	73.1
IP 2208	1.80-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	5.62	8.77	0.198	15.5	19.9	16.4	<0.14	27.4	75.6
IP 2285	0.50-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.08	67.9	2.9	21.9	262	621	<0.14	29.4	1710
IP 2285	0.90-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	7.42	48.5	1.86	18.7	97.9	63.6	<0.14	25.1	221
IP 2285	1.40-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	9.06	0.221	14.8	18.8	16.8	<0.14	18.5	53.5
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	6.34	0.187	10.8	10.6	12.2	<0.14	20.4	58.4
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.85	6.34	0.187	10.8	10.6	12.2	<0.14	20.4	58.4
IP 2286	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	7.25	38.1	1.72	14.9	78.2	181	<0.14	23.8	226
IP 2286	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	6.37	8.48	0.309	14.3	18.2	16.7	<		

Monitor Phase 58

Excavate

		Soil Organic Matter (SOM)																pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	
Commercial Deep 1%																													
ate	Complete	%	pH Units	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	mg/kg	mg/kg	mg/kg							
9/09/2014	-	7.77	66.1	7.55	24.7	206	758	<0.14	30.3	<1	24.5	1190																	
0/09/2014	5.72	7.18	45.1	1.25	17.9	88.8	74.8	<0.14	18.7	<1	21.2	218																	
0/09/2014	8.72	7.48	47	1.69	36.3	146	606	<0.14	28	<1	25	698																	
0/09/2014	-	7.84	48.7	4.66	20.2	224	894	<0.14	29.8	3.91	24.2	3440																	
0/09/2014	-	6.89	9.97	0.459	14.8	28.4	33.8	<0.14	23.8	<1	15.2	140																	
0/09/2014	-	6.37	9.93	0.377	12.8	16.7	63.9	<0.14	24.4	<1	13.2	132																	
3/09/2014	-	6.36	47.9	1.31	17.1	52.6	61.1	<0.14	18.9	<1	19.1	193																	
3/09/2014	-	6.11	18.3	0.703	16.3	42.3	130	<0.14	29.8	<1	16.7	238																	
1/09/2014	3.79	6.06	37.5	1.12	52.8	175	368	<0.14	34.8	<1	31.1	831																	
1/09/2014	-	6.49	12.4	0.369	18.1	24.5	49.8	<0.14	24.8	<1	17.9	123																	
1/09/2014	-	6.38	15.6	0.431	26.6	53	121	<0.14	30.6	<1	21.6	243																	
1/09/2014	-	6.32	8.43	0.283	15.1	16.6	17.2	<0.14	29.8	<1	16	76.5																	
1/09/2014	-	6.6	5.96	0.263	12.1	11.7	13.1	<0.14	21.9	<1	11.8	63.2																	
3/09/2014	-	6.78	11.1	0.187	14.1	81.5	41.5	<0.14	53.5	<1	36.7	33.3																	
0/09/2014	-	6.86	8.29	0.244	12.6	12	14.2	<0.14	23.4	<1	10.2	71.1																	
3/09/2014	-	6.68	27.7	0.717	21.5	483	287	<0.14	40.7	<1	39.2	410																	
0/09/2014	-	6.66	7.11	0.283	12.2	26.5	29.3	<0.14	23.9	<1	14.7	79.8																	
0/09/2014	-	5.86	106	2.12	17.7	327	350	<0.14	27.3	<1	23.6	599																	
0/09/2014	-	6.72	17.9	0.713	22.1	20.9	14.8	<0.14	14.7	<1	20.9	121																	
0/09/2014	-	6.72	5.92	0.36	8.95	9.63	9.55	<0.14	15.2	<1	8.77	58.6																	
0/09/2014	3.95	7.58	33.5	1.25	18.6	97.3	360	<0.14	36.2	<1	18.2	459																	
0/09/2014	-	6.05	34	4.65	15.6	246	207	0.148	49	<1	29.1	299																	
0/09/2014	-	5.55	9.58	0.338	17.3	10.4	12.4	<0.14	20.5	<1	13.2	55.6																	
0/09/2014	-	6.32	9.96	0.358	19	14	18.9	<0.14	27.7	<1	15.4	71.9																	
0/09/2014	5.47	8	63.6	2.73	17.3	167	177	0.293	32.7	<1	22.5	405																	
0/09/2014	-	6.09	10.6	0.343	19	31.4	23	<0.14	29	<1	19	88																	
0/09/2014	-	6.57	10	0.509	21.1	27.8	21.2	<0.14	34.7	<1	19.3	103																	
0/09/2014	-	6.55	13.4	0.607	22	35	24.7	<0.14	41.1	<1	19.9	125																	
0/09/2014	-	6.43	9.03	0.436	17	17.6	19.7	<0.14	33.6	<1	16.4	103																	
0/09/2014	-	9.59	14.3	0.46	12.6	44.6	40.6	<0.14	43.9	<1	17	146																	
0/09/2014	-	8.67	14.2	0.487	12.4	55.2	31.3	<0.14	42.7	<1	17	114																	
0/09/2014	-	6.65	11.8	0.332	16.4	22.9	21.9	<0.14	28.1	<1	15.8	88.3																	
0/09/2014	-	6.52	11.6	0.276	18.2	18.6	15.8	<0.14	26.9	<1	16.5	74.1																	
0/09/2014	-	6.68	12	0.334	17.6	17.3	16.3	<0.14	27.2	<1	15.9	93.1																	
0/09/2014	11.5	7.83	22.4	0.629	12	85.3	137	<0.14	28.3	<1	25.7	181																	
0/09/2014	-	8	21.2	0.568	20.6	27.5	32.4	<0.14	22.8	<1	23.1	95																	
0/09/2014	-	6.62	11.2	0.29	17.3	17.2	19.2	<0.14	26.2	<1	16.5	71.7																	
0/09/2014	-	6.65	7.93	0.339	15.3	16.7	14.3	<0.14	33.3	<1	15.1	67.8																	
0/09/2014	-	6.7	10.7	0.322	17.1	20	17.2	<0.14	29.8	<1	16.8	79.4																	
3/09/2014	-	8.04	17.8	0.709	12.5	84	82.3	<0.14	30.8	<1	20.1	216																	
0/09/2014	-	6.3	8.72	0.244	18.2	18.2	16.6	<0.14	21.1	<1	19.3	52.6																	
0/09/2014	-	6.14	9	0.497	14.9	11.8	13.3	<0.14	22.5	<1	17.1	61																	
0/09/2014	-	6.18	9.24	0.336	16.1	12.7	14.4	<0.14	28.3	<1	15.3	74.2																	
0/09/2014	-	5.77	9.6	0.325	17.2	18.2	17.5	<0.14	30.4	<1	17.2	80.4																	
0/09/2014	-	7.51	45.6	2.91	17.5	210	485	<0.14	27.7	<1	22.4	883																	
0/09/2014	-	6.64	9.98	0.311	15.3	17.3	26.8	<0.14	24.6	<1	15.6	71.1																	
0/09/2014	-	6.46	7.92	0.305	15.1	13.1	14.2	<0.14	26.8	<1	14.4	65.3																	
0/09/2014	-	6.18	7.5	0.38	14.2	11.4	17.2	<0.14	28.8	<1	13.5	69.6																	
0/09/2014	-	6.45	8.98	0.302	14.7	16.2	15.7	<0.14	26.2	<1	15.1	65.7																	
0/09/2014	-	6.82	73.4	1.78	17.3	174	86.1	<0.14	20.6	<1	23.1	280																	
1/09/2014	-	6.2	9.81	0.224	13.3	25.2	24.9	<0.14	27.9	<1	15.8	71.4																	
0/09/2014	-	6.24	6.62	0.331	12.8	11.2	12.9	<0.14	24.4	<1	12.3	71.5																	
2/09/2014	4.47	7.05	68.6	3.02	16.4	157	109	<0.14	20.1	<1	22.2	332																	
0/09/2014	-	7.31	10.4	0.085	17.3	17.7	22.5	<0.14	16	<1	18	69.5																	
1/09/2014	-	5.68	8.05	0.184	14.4	18	16.2	<0.14	27.1	<1	16.4	68.5																	
0/09/2014	-	6.14	7.93	0.257	12.4	11.2	13	<0.14	24.6	<1	12.3	67.6																	
0/09/2014	-	7.11	76	2.73	18.6	339	951	<0.14	35.2	<1	25.3	3280																	
0/09/2014	-	6.72	15.6	1.41	19.3	22.3	22.4	<0.14	16.5	<1	26.4	182																	
2/09/2014	-	5.99	9.81	0.246	21.3	17.5	16.1	<0.14	23.4	<1	32.3	62																	
0/09/2014	-	6.59	9.34	0.197	14	17	23.2	<0.14	26.3	<1	14.8	75.9																	
1/09/2014	-	7.18	49	1.68	24.3	134	332	<0.14	37.3	<1	29.1	641																	
0/09/2014	-	6.35	9.05	0.44	12.4	19.3	20.5	<0.14	18.9	<1	16.7	77.8																	
1/09/2014	-	6.01	6.81	0.299	13.1	11.8	11.7	<0.14	23.1	<1	12.6	61.9																	
0/09/2014	-	7.11	76	2.73	18.6	339	951	<0.14	35.2	<1	25.3	3280																	
0/09/2014	-	6.72	15.6	1.41	19.3	22.3	22.4	<0.14	16.5	<1	26.4	182																	
2/09/2014	-	5.99	9.81	0.246	21.3	17.5	16.1	<0.14	23.4	<1	32.3	62																	
1/09/2014	-	6.59	9.34	0.197	14	17	23.2	<0.14	26.3	<1	14.8	75.9																	
1/09/2014	-	7.18	49	1.68	24.3	134	332	<0.14	37.3	<1	29.1	641																	
2/09/2014	-	6.35	9.05	0.44	12.4	19.3	20.5	<0.14	18.9	<1	16.7	77.8																	
0/09/2014	-	6.01	6.81	0.299	13.1	11.8	11.7	<0.14	23.1	<1	12.6	61.9																	
0/09/2014	-	7.11	76	2.73	18.6	339	951	<0.14	35.2	<1	25.3	3280																	
0/09/2014	-	6.72	15.6	1.41	19.3	22.3	22.4	<0.14	16.5	<1	26.4	182																	
0/09/2014	-	5.99	9.81	0.246	21.3	17.5	16.1	<0.14	23.4	<1	32.3	62																	
1/09/2014	-	6.59	9.34	0.197	14	17	23.2	<0.14	26.3	<1	14.8	75.9																	
1/09/2014	-	7.18	49	1.68	24.3	134	332	<0.14	37.3	<1	29.1	641																	
2/09/2014	-	6.35	9.05	0.44	12.4	19.3	20.5	<0.14	18.9	<1	16.7	77.8																	
0/09/2014	-	6.01	6.81	0.299	13.1	11.8																							

Monitor Phase 58

Excavate

Soil Organic Matter (SOM)			pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
Commercial	Deep 1%												
ate Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0/09/2014	-	5.44	109	13.3	15.9	336	167	<0.14	33.6	1.52	13.7	1050	
0/09/2014	-	5.59	8.5	0.421	12	188	13.5	<0.14	25.3	<1	13.8	66	
0/09/2014	-	6.96	6.7	0.481	9.74	10.9	9.86	<0.14	25	<1	10.4	65.6	
0/09/2014	-	7.23	86.8	1.79	16.7	87.3	355	5.97	43.8	<1	13.9	412	
0/09/2014	-	5.87	5.3	0.193	19.5	12.3	12.5	<0.14	20.8	<1	24.1	48.4	
0/09/2014	-	6.12	6.74	0.36	10.1	10.3	11.5	<0.14	23.6	<1	10.6	63.4	
0/09/2014	-	7.27	44.8	1.58	12.9	107	100	<0.14	18.2	<1	16.5	179	
0/09/2014	-	6.79	17.5	0.76	12.9	32.9	41.5	<0.14	24.1	<1	16	92.4	
0/09/2014	-	4.82	7.3	0.415	9.96	13.4	14.5	<0.14	25.3	<1	10.9	62.2	
0/09/2014	9.5	6.63	43.3	3.24	33.4	77.9	1040	<1.4	43.3	<10	24.9	439	
0/09/2014	-	6.47	11.3	1.02	12.3	16.9	46	<1.4	25.8	<10	15.5	75.6	
0/09/2014	-	6.48	7.96	0.447	11.2	14.4	27.6	<0.14	25	<1	11.6	65.5	
0/09/2014	-	6.66	10.8	0.41	13.8	15	16.4	<0.14	26.2	<1	13.4	74.2	
0/09/2014	-	6.86	8.46	0.459	10.8	17.9	13.8	<0.14	22.5	<1	12.5	62.5	
0/09/2014	-	6.96	7.6	0.348	10.2	9.39	10.4	<0.14	21.3	<1	10.7	51	
0/09/2014	-	6.69	10.2	0.426	13.2	15.9	15.4	<0.14	16.6	<1	15.9	77.4	
0/09/2014	-	6.99	8.55	0.401	10.7	14.5	13.5	<0.14	18.7	<1	12.8	63.5	
0/09/2014	-	6.79	6.79	0.385	9.08	12	10.6	<0.14	18.8	<1	10.7	49.2	
0/09/2014	-	7.43	9.59	0.517	5.9	7.33	35.8	<0.14	9.72	<1	15.4	67.9	
0/09/2014	-	6.83	8.27	0.445	10.4	14.9	17.7	<0.14	20	<1	12.2	62.9	
0/09/2014	-	6.14	76.1	2.16	15.2	162	84.9	<0.14	17.7	<1	21.1	348	
0/09/2014	-	5.74	9.96	0.46	12.8	19.1	71.3	<0.14	21.6	<1	12.9	83.1	
0/09/2014	-	5.38	32.4	1.11	44.9	37.5	1150	<0.14	41.5	<10	13.8	232	
0/09/2014	2.14	6.09	126	2.15	21.7	211	135	<0.14	17.3	<1	23.8	1570	
0/09/2014	-	7.19	33.6	80.8	22.4	466	385	0.792	58.7	1.98	39	1400	
0/09/2014	-	5.69	8.34	0.395	15	17	24.7	<0.14	24.3	<1	14.2	92.5	
0/09/2014	-	7.1	60.6	2.18	28.8	123	864	<0.14	28.4	<1	22.3	2060	
0/09/2014	-	6.42	6.49	0.28	14.9	25.7	17.4	0.158	31.8	<1	15.8	84.6	
0/09/2014	-	6.33	8.5	0.391	17.4	14.4	20.3	<0.14	31.5	<1	18.1	92	
1/10/2014	-	8.9	9.27	0.393	12.1	30.1	31.5	<0.14	36	<1	19.2	103	
0/09/2014	-	6.87	9.43	0.157	17.8	15.3	13.1	<0.14	15.1	<1	21.7	34.5	
0/09/2014	-	5.59	8.56	0.403	12.7	17.8	13.3	<0.14	31.1	<1	15.5	65.6	
0/09/2014	-	5.95	7.47	0.278	12.1	12.7	12.4	<0.14	23.3	<1	12.8	66.4	
0/09/2014	-	6.25	6.93	0.417	12	9.49	9.34	<0.14	22.8	<1	13.7	61.1	
0/09/2014	0.878	6.57	5.43	0.479	14.9	10	30.5	<0.14	27.9	<1	12.1	86.4	
0/09/2014	-	6.44	6.1	0.368	11.7	8.76	8.85	<0.14	21.6	<1	11.7	54.2	
0/09/2014	-	6.49	7.14	0.389	11.7	15.7	13	<0.14	26.8	<1	13.5	68.2	
0/09/2014	-	7.05	7.48	0.38	9.74	12.4	11.8	<0.14	18.7	<1	11.1	55.4	
1/10/2014	-	8.86	1.4	0.615	12.2	41.2	34	<0.14	43.7	<1	14	145	
0/09/2014	9.67	9.64	9.11	0.447	10.2	26.2	17.3	<0.14	31.1	<1	12.3	84.3	
0/09/2014	-	9.37	9.81	0.524	9.78	40.9	23.3	<0.14	35.4	<1	12.3	94	
0/09/2014	-	8.21	52.1	0.973	11.9	177	126	<0.14	18.2	<1	15	596	
0/09/2014	-	8.48	16.8	0.439	6.99	42.1	33.3	0.183	12.2	<1	10.2	157	
0/09/2014	7.22	8.6	16.9	0.564	13.1	75.2	50.6	<0.14	38.6	<1	13	193	
0/09/2014	-	6.96	9.55	0.206	16	17.3	16.1	<0.14	30.9	<1	17.6	75.6	
0/09/2014	-	7.9	12.3	0.336	14.8	32.9	24.2	<0.14	28.6	<1	16.1	112	
0/09/2014	-	7.35	9.61	0.552	12.5	16.1	16.3	<0.14	21.5	<1	12	70.4	
0/09/2014	-	5.79	132	2.12	20.4	191	121	<0.14	44.2	<10	16.4	177	
0/09/2014	2.81	6.01	8.7	0.294	14.1	17.1	12.3	<0.14	17	<1	15.7	44.9	
0/09/2014	-	5.35	18.1	0.381	13	19.6	16.8	<0.14	25.3	<1	16.1	68.5	
1/10/2014	-	7.13	52.6	1.92	30.7	137	1090	0.483	44.1	<1	31.1	522	
0/09/2014	-	5.37	7.58	1.22	12.1	<14	15.6	<0.14	27.5	<10	17.6	78.5	
0/09/2014	-	7.05	12.1	0.46	13.9	17.8	16.9	<0.14	24.4	<1	14.4	77.2	
0/09/2014	1.36	6.43	7.65	0.527	15.6	12.4	16.8	<0.14	29.7	<1	15.9	75.7	
3/10/2014	4.33	7.91	27.6	0.695	14.2	57.5	139	0.356	23.1	<1	16.4	809	
3/10/2014	-	7.55	43.3	1.98	21.4	159	328	0.955	50.9	1.52	30.3	414	
3/10/2014	-	6.14	11.4	0.409	15.8	26.3	17.3	<0.14	21.1	1	20.4	87.9	
3/10/2014	-	6.16	9.11	0.269	11	13.1	12.2	<0.14	25.4	<1	12.5	68.6	
3/10/2014	-	7.11	73.8	1.83	27.4	222	431	0.867	61	<1	29.1	545	
3/10/2014	1.65	6.91	18.2	0.489	18	15.5	18.9	<0.14	16.8	1.36	25.1	77	
3/10/2014	-	6.66	6.74	0.249	10.9	8.54	9.94	<0.14	22.9	<1	11.3	56.6	
3/10/2014	-	6.76	7.5	0.355	11.5	11.9	24.2	<0.14	27.3	<1	12.2	81.9	
3/10/2014	-	7.89	221	3.4	22.9	397	1770	0.8	42	<1	27.6	718	
3/10/2014	2.62	7.28	9.46	0.143	15	17.2	16.9	<0.14	17.2	<1	16.9	56.1	
3/10/2014	-	6.76	5.74	0.404	13.7	7.78	9.66	<0.14	27.1	<1	13.5	79.1	
3/10/2014	-	6.71	5.41	0.453	10.3	8.44	10.6	<0.14	23.5	<1	9.97	62.3	
3/10/2014	-	8.25	33.9	0.874	15.9	67.8	155	<0.14	26	<1	18.7	419	
3/10/2014	-	6.71	23.4	1.12	18.9	96.7	22.3	<0.14	19.9	1.75	25.2	140	
3/10/2014	-	6.23	6.49	0.286	9.7	8.94	11.6	<0.14	19.7	<1	11	51.4	
3/10/2014	-	7.1	45.9	1.32	12.5	81.8	70.3	<0.14	38.2	2.1	30.2	274	
3/10/2014	-	6.36	22	1.24	18.1	44.4	28.7	<0.14	26.2	1.47	24.3	188	
3/10/2014	-	7.1	11.5	0.711	14.6	25.4	28.3	<0.14	20.9	<1	16.9	112	
3/10/2014	-	5.76	22.1	0.876	16.2	39.6	28.9	<0.14	21.3	<1	20.9	175	
3/10/2014	-	5.87	10.6	0.403	12.9	20.4	16.3	<0.14	20.8	<1	15.5	80.6	
3/10/2014	1.08	6.54	8.22	0.365	11.2	14.5	13.6	<0.14	21.4	<1	11.7	63.3	
3/10/2014	-	7.22	8.34	0.208	11.4	17.7	15	<0.14	39.6	<1	12.6	69.3	
3/10/2014	4.29	6.53	8.6	0.225	11.8	24.3	19.2	<0.14	26.5	<1	14.3	74.1	
3/10/2014	-	6.7	16.2	<0.02	27.8	11.6	23.7	<0.14	19.8	<1	33	57.2	
3/10/2014	-	5.97	56.5	1.91	16.2	170	102	<0.14	21	<1	23.6	178	
3/10/2014	2.24	5.99	10.8	0.385	14.1	13.7	16.7	<0.14	13.7	<1	16.1	51	
3/10/2014	-	6.06	8.41	0.191	14.8	24.6	15.5	<0.14	47.5	<1	17.4	79.5	
3/10/2014	-	7.96	7.82	0.264	11.3	9.29	9.81	0.272	25.4	<1	10.9	64.4	
3/10/2014	-	6.3	23.7	0.785	14.8	45.9	26.2	<0.14	19	<1	19.3	95.2	
3/10/2014	-	6.01	17.5	0.433	15.8	30.1	20.7	<0.14	19.2	<1	20.4	76.8	
3/10/2014	3.74	6.62	12	0.382	13.4	29.1	20.3	<0.14	23	<1	16.5	73	
3/10/2014	-	6.55	9.34	0.444	13.6	19.2	16.5	<0.14	30.7	<1	14.6	84.9	
3/10/2014	-	6.34	56	1.14	17.5	56.7	111	<0.14	37.4	<1	19.1	240	
3/10/2014	-	8.06	37.5	1.08	18.9	87.4	263	<0.14	34.6	<1	20.7	574	
3/10/2014	63.6	6.1	104	6.4	4.2	124	37.8	<0.14	29.3	2.02	7.73	591	
3/10/2014	-	5.78	3.99	0.106	18.3	12.1	16.5	<0.14	24	<1	22.5	40.8	
3/10/2014	0.705	6.81	6.43	0.334	9.43	10.8	14.8	<0.14	20.8	<1	9.18	66.7	
3/10/2014	1.93	7.91	27.1	1.08	13.3	49.3	287	<0.14	29.5	<1	18	610	
3/10/2014	-	6.57	25.3	1.57	15.3	50.5	70.7	<0.14	30.8	<1	18.1	226	
3/10/2014	-	6.29	25.8	1.95	20.4	85.4	160	<1.4	39.4	<10	20.3	288	
3/10/2014	1.52	6.03	5.33	0.23	16.8	17.4	17.7	<0.14	27.8	<1	14.5	76.2	
3/10/2014	-	8.1	68.1	0.868	11.1	174	412	<0.14	24.7	<1	16.1	602	
3/10/2014	-	6.39	124	2.02	11	197	98.6	<0.14	19.6	1.52	14.5	571	
3/10/2014	-	6.57	5.67	0.164	15.6	15.2	14.7	<0.14	38.3	<1	17.9	51.4	
3/10/2014	-	8.38	11.8	0.617	11.8	26.2	59.9	<0.14	23.6	<1	13.2	134	
3/10/2													

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
TPE1172	4.00-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6	6.89	0.451	12.8	9.01	10.9	<0.14	30.5	<1	14.3	64.3
TPE1176	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.7	90	1.78	24	274	571	<1.4	38.7	1.48	24.5	1210
TPE1177	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	6.95	8.17	294	11	19.3	3230	2950	<0.14	55	2.72	27.2	25900
TPE1188	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	1.88	8.3	68.3	2.2	13.4	122	247	0.236	20.8	<1	20.6	556
TPE1188	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	8.22	328	2.33	15.7	931	303	<0.14	40	<1	31	887
TPE1189	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.88	32.2	1.58	14.7	101	279	<1.4	28	2.53	15.8	452
TPE1189	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	8.08	19.8	0.898	14.9	42.2	138	<0.14	28.1	<1	17.8	244
TPE1189	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	5.61	9.93	0.481	11.6	16	16.1	<0.14	20.3	1.11	13.6	71.7
TPE1189	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.32	10.3	0.407	10	11.5	11.3	<0.14	17.1	<1	11.9	61.2
TPE1190	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	5.98	8.73	22.5	0.675	15.2	44	118	<0.14	29	<1	16	274
TPE1190	1.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.07	53.7	2.9	16.4	99.1	89.5	<0.14	35.1	1.91	32.6	319
TPE1190	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.47	16.4	0.733	20.4	21.4	20.4	<0.14	19.3	1.81	25.7	118
TPE1190	3.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.89	6.8	0.383	11.6	12	11.4	<0.14	24.2	<1	12.4	67.1
TPE1192	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.18	12.2	0.495	12.3	31.8	86.9	<0.14	22.3	1.01	16.1	198
TPE1192	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.47	14.8	0.587	14.5	46.4	167	<0.14	25.6	<1	18.4	366
TPE1192	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.34	9.21	0.371	12.5	15.8	27.4	<0.14	21.9	<1	14.2	88
TPE1253	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	10.6	7.54	662	10.2	26	4360	2250	<0.14	52.5	<10	52.5	7790
TPE1253	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.45	12.9	0.439	12.7	52.9	20	<0.14	23.7	1.12	16.2	103
TPE1253	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.31	6.67	0.441	12.1	9.8	14.1	<0.14	24.7	<1	12.1	79.4
TPE1253	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.4	8.31	0.406	13.6	18.4	16.8	<0.14	29.7	<1	16.2	99
TPE1254 A	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	15.8	7.21	187	3.73	23.1	1080	828	<0.14	47	<10	37.6	2060
TPE1254 A	0.90-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.25	49	1.39	17.7	97.6	82.8	<0.14	26.6	1.7	29.6	251
TPE1254 B	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	17.4	7.5	104	2.77	23.7	656	975	0.217	46	1.4	38	1810
TPE1254 B	0.80-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.43	16.7	0.234	21.9	10.6	18.8	<0.14	17.1	1.73	30.3	61.4
TPE1255	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	3.88	11.1	7.82	0.409	9.44	26	26.7	<0.14	22.4	<1	14.5	125
TPE1255	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	11.1	10.5	0.542	9.85	31	122	0.19	27.4	<1	13.9	203
TPE1257	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.14	9.2	0.371	10.7	23	22.2	<0.14	27.6	<1	14.4	77.1
TPE1257	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.43	9.59	0.29	8.56	35.7	26	<0.14	33.6	<1	11.9	91
TPE1257	2.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	8.28	14.1	0.596	18.2	16	18.4	<0.14	14	1.48	23.1	72.6
TPE1257	3.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	0.728	7	8.67	0.136	14	11.7	14.5	<0.14	22.5	<1	15.3	53.4
TPE1257	4.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	6.95	7.43	0.0441	13.3	11.8	13.3	<0.14	23.9	<1	13.6	55.5
TPE1258	0.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	0.946	6.74	9.48	0.975	17.4	15.6	18.4	<0.14	39.1	6.03	13.2	81.1
TPE1258	1.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.92	29.5	1.04	36.7	81.4	163	<0.14	29.8	1.09	26.8	389
TPE1258	2.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.71	8.11	0.436	12.4	8.02	13.1	<0.14	26.6	1.38	11.6	61.2
TPE1258	3.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	7.22	7.89	0.444	13.7	9.14	12.1	<0.14	26	1.74	13.2	56.8
TPE1258	4.50-	140709-43	07/07/2014	09/07/2014	10/10/2014	0.696	7.36	8.74	0.357	13.3	10.4	12.9	<0.14	28.1	1.13	16.5	66.3
TPE1270	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	9.57	9.49	9.42	0.488	9.91	30.5	21.7	<0.14	31.6	<1	13.1	91.6
TPE1270	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	9.76	10.1	0.3	11	34.2	27.7	<0.14	36	<1	12.9	94.1
TPE1270	2.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	8.22	48.1	<0.02	14	480	496	<0.14	45.1	1.15	28.9	350
TPE1270	3.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	1.4	7.13	11.3	0.38	12.1	34.9	32.3	<0.14	20.2	<1	14.9	89.1
TPE1270	4.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	7.23	5.55	0.047	16.8	15.7	14.1	<0.14	31.2	<1	18	67.7
TPE1272	0.30-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	7.29	40.3	1.76	23.6	158	423	<0.14	46.4	1.29	56.1	642
TPE1272	1.30-	140708-59	07/07/2014	08/07/2014	07/10/2014	1.29	5.98	9.24	0.157	21	13.3	19.4	<0.14	19.3	<1	25.2	52.4
TPE1272	2.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	6.27	10.6	0.117	17.3	22.9	23.3	<0.14	35.7	<1	18.8	98.9
TPE1272	3.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	5.58	9.03	0.0574	16.6	19.5	19.4	<0.14	31.5	<1	17.1	82.8
TPE1272	4.60-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	5.87	8.23	0.0302	16.4	17.1	18.3	<0.14	33.8	<1	17.2	86.2
TPE1273	1.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	4.05	7.34	25.7	1.2	17.1	62.9	78.2	<0.14	26.7	1.13	23.8	449
TPE1273	2.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.73	7.69	0.331	16.1	15.5	15.6	<0.14	30.1	<1	16.8	90.7
TPE1273	3.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	5.63	6.94	0.492	15.3	16.7	15.7	<0.14	32.4	1.28	17.4	98.5
TPE1273	4.00-	140709-43	07/07/2014	09/07/2014	10/10/2014	-	6.17	9.27	0.44	15.9	16.2	16.7	<0.14	35.5	<1	18.2	104
TPE839	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	12.6	7.87	57.3	2.23	14.4	142	439	0.936	26.5	<1	24.5	1290
TPE839	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.63	8.59	0.44	12	19.9	17.5	<0.14	35.1	<1	13.8	82
TPE839	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.32	7.36	0.423	6.82	18.8	22.8	<0.14	18.8	<1	6.8	82.9
TPE913	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	4.81	7.15	6.76	0.433	4.51	11.9	29.4	0.297	2.83	<1	5.32	74.9
TPE913	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.49	7.02	0.3	11.1	17	16.6	<0.14	19.2	<1	13.4	52.8
TPE913	2.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.78	6.85	0.427	9.97	9.57	11.6	<0.14	22.3	<1	11.1	61.8
TPE914	0.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	10.8	6.3	41.5	4.77	18.8	55.3	31.4	<0.14	19.1	1.73	27.1	345
TPE914	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.64	14.1	0.612	7.42	18.4	43.2	0.43	7.8	<1	8.09	78.8
TPE914	1.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	5.75	8	0.313	14.4	19.1	14.8	<0.14	25.9	<1	18.4	55.8
TPE914	2.00-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	7.13	8.82	0.408	12.7	11.6	12.5	<0.14	19.3	<1	15.1	58.5
TPE915	0.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	32.6	6.71	152	4.35	21.3	324	308	0.358	45.1	3.27	30.4	446
TPE915	1.20-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.35	3.27	0.343	8.4	6.01	9.52	<0.14	6.85	<1	13.2	23.7
TPE916	0.50-	140710-62	08/07/2014	10/07/2014	22/10/2014	3.09	8.57	23.1	0.45	16.3	29.9	154	<0.14	20.7	<1	34.4	439
TPE916	1.30-	140710-62	08/07/2014	10/07/2014	22/10/2014	-	6.61	84.1	0.605	8.26	157	121	<0.14	15	1.2	18.7	157
TPE916	2.00-	140710-62	08/07/2014	10/07/2014	22/10/												

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP 2387	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.52	5.08	<0.02	12.1	8.22	9.81	<0.14	28.8
IP 2388	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.77	8.9	0.325	9.81	20.3	32.4	0.173	15
IP 2388	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.07	5.07	<0.02	13.1	9.4	12	<0.14	25.8
IP 2388	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	7.99	5.64	<0.02	11.7	11.9	14.2	<0.14	23.7
IP 2390	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	1.27	5.73	7.1	<0.02	13.6	9.74	15.8	<0.14	13.4
IP 2390	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.66	10.4	<0.02	17	19.9	30.4	<0.14	38.6
IP 2392	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.98	13.4	0.674	15	27.7	64.6	4.35	22.7
IP 2486	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.38	50.3	0.996	31.9	96.5	177	0.186	35.9
IP 2486	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	2.41	5.64	22.6	0.171	16.5	16.5	27.6	<0.14	16.5
IP 2486	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	-	6.19	8.18	<0.02	14.1	15.4	13.8	0.192	16
IP 2486	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.12	9.53	<0.02	27.3	18.4	21.5	<0.14	30.3
IP 2488	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.84	4.65	<0.02	11.9	10.5	26.4	<0.14	17.3
IP 2488	1.10	141003-69	29/09/2014	03/10/2014	19/10/2014	-	7.17	6.29	0.034	13.2	12.7	15.1	<0.14	30.1
IP 2489	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.54	9.75	0.364	14.1	13.7	28.2	<0.14	16.9
IP 2489	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.81	8.6	<0.02	12.9	16.2	16.6	<0.14	24.9
IP 2489	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.22	8.15	<0.02	14.1	18.3	26.5	<0.14	29.6
IP 2490	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.82	5.28	0.146	12.6	7.11	27.5	<0.14	13.9
IP 2490	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.88	9	<0.02	15	18.3	22.8	<0.14	28.7
IP 2490	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.71	7.6	<0.02	12	12.1	12.2	<0.14	23.5
IP 2491	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	0.524	5.5	2.51	0.116	7.87	1.99	29.1	<0.14	5.3
IP 2491	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.56	10.8	<0.02	12.4	5.63	13.4	<0.14	13.6
IP 2491	2.50	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.76	8.63	<0.02	13.9	13.3	15.3	<0.14	26.9
IP 2492	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.71	276	4.37	13.5	492	445	0.248	18.9
IP 2492	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.95	8.81	<0.02	11.3	10.3	18.5	<0.14	13.5
IP 2492	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014	-	6.83	7.38	<0.02	12.2	11	14.5	<0.14	23.3
IP 2493	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	4.85	8.45	0.214	15.1	12	14.9	<0.14	18.4
IP 2493	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	1.34	6.08	7.39	0.162	11.5	11.4	12.7	<0.14	22.6
IP 2493	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.52	7.26	0.162	13.1	11.7	12.9	<0.14	27.4
IP 2494	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.9	9.91	0.0402	14.3	16.2	16.3	<0.14	14.4
IP 2494	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	4.28	11.4	0.152	12.8	25.2	32.2	<0.14	12.9
IP 2494	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.42	6.2	0.0305	10.5	9.4	11	<0.14	22.8
IP 2496	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7	9.56	0.297	15.2	24.4	26.3	<0.14	25.6
IP 2496	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.58	7.98	0.049	13	14.5	13.3	0.269	25.5
IP 2496	2.50	141001-76	26/09/2014	01/10/2014	18/10/2014	-	6.72	6.97	0.14	11	10.4	10.5	<0.14	19.4
IP 2592	0.40	141001-76	26/09/2014	01/10/2014	18/10/2014	-	7.16	29.1	0.787	15.1	54.9	107	<0.14	20.6
IP 2779	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	1.55	5.93	33.4	0.278	18.6	21.5	19.3	<0.14	13.7
IP 2779	0.50	141001-76	26/09/2014	01/10/2014	05/11/2014	-	8.11	53.1	1.62	79.7	238	936	1.4	68.8
IP 2779	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.38	9.94	0.159	13.9	18.6	16.5	<0.14	19
IP 2779	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.62	21.9	0.331	25.8	181	217	0.721	31.4
IP 2779	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	5.44	6.95	0.13	12	10.9	11.7	<0.14	24.3
IP 2779	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.67	24.8	0.368	27	91.2	200	0.694	30.2
IP 2865	1.00	141001-76	26/09/2014	01/10/2014	05/11/2014	-	7.78	15.6	0.441	12.3	30.8	40.2	<0.14	22
IP 2865	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.55	7.68	0.102	16.7	20.4	17.6	<0.14	33.4
IP 2866	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.8	60.3	0.854	17.1	212	147	<0.14	26
IP 2866	3.00	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.02	6.5	0.0679	15.3	15.6	15.8	<0.14	30.4
IP 2869	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	2.48	8.91	10.7	0.195	14.7	29	51.2	<0.14	35.7
IP 2869	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.32	7.5	<0.02	15.1	10.3	31.4	<0.14	33
IP2194	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.24	37.1	4.11	11.2	92	47.3	<0.14	12.1
IP2194	0.90	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.61	64.4	0.848	14.4	116	65.7	<0.14	17.9
IP2194	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.96	66.3	0.781	15.9	57.3	42.7	<0.14	18.1
IP2194	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.92	6	<0.02	11.8	7.05	9.5	<0.14	22.5
IP2194	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.65	5.15	<0.02	11.7	6	8.45	<0.14	22.7
IP2195	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	3.1	7.62	18.6	0.512	12.9	35.8	79.5	0.189	15.2
IP2195	0.90	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.39	15.9	0.722	15	61.3	113	0.266	18
IP2195	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.39	18.1	0.343	17.4	50.8	51.3	<0.14	28.8
IP2195	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.28	8.76	<0.02	11.9	11.8	13.2	<0.14	21.3
IP2195	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.85	4.68	<0.02	12.3	6.93	10.8	<0.14	25.1
IP2196	0.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	8.28	25.5	0.744	16.3	53.8	71.2	0.236	23
IP2196	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.54	4.56	0.0742	13.4	7.75	13.4	<0.14	14.4
IP2196	1.80	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.12	25.1	2.17	5.47	778	185	0.216	6.89
IP2196	2.80	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.47	8.74	0.0511	11.3	24.5	14.8	<0.14	17.7
IP2196	3.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.9	6.3	<0.02	11.2	9.03	9.2	<0.14	25.5
IP2196	4.20	141003-92	30/09/2014	03/10/2014	19/10/2014	1.03	5.92	10.8	<0.02	9.42	13.1	12.2	<0.14	20.5
IP2292	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	8	30.3	0.994	18.3	74.6	85.8	0.236	26.4
IP2292	1.40	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.33	61.9	0.808	12.9	77.8	52	<0.14	18
IP2292	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.28	6.47	<0.02	12.2	9.5	12.1	<0.14	20.8
IP2292	3.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.76	5.99	<0.02	10.7	9.67	10.5	<0.14	24
IP2293	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.49	35.2	1.4	15.8	72.7	142	<0.14	26.1
IP2293	0.90	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.36	61.1	5.12	7.42	480	207	<0.14	16.3
IP2293	1.50	141003-92	30/09/2014	03/10/2014	19/10/2014	2.65	5.98	8.92	<0.02	13	18.5	113	<0.14	20.6
IP2293	2.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.51	5.61	<0.02	11.4	6.44	10.5	0.171	25.8
IP2293	3.50	141003-92	30/09/2014	03/10/2014	19/10/2014	-	6.92	5.08	<0.02	10.1	7.92	9.12	<0.14	23
IP2389	0.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.29	7.32	0.335	13.4	38	149	0.263	18.9
IP2389	1.50	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.84	7.68	0.589	12.4	14.6	22.5	<0.14	25.1
IP2391	0.20	141003-92	30/09/2014											

Monitor Phase 58

Excavate

						Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
						Commercial Deep 1%											
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IP2768	1.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	8.83	12.5	0.173	11.5	45.6	37.2	<0.14	44.3	<1	13.4	147
IP2768	2.00-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	7.98	61.7	0.586	13.8	342	58	<0.14	37.7	<1	20.8	378
IP2769	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	7.92	24.7	0.461	15.3	103	58	<0.14	45	<1	16.4	238
IP2769	1.00-	140927-29	22/09/2014	27/09/2014	23/10/2014	-	8.11	<6	0.232	<9	<14	938	<1.4	7.6	<10	2.01	167
IP2774	0.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	8.39	18.7	0.59	14.2	39.5	46.4	<0.14	26.6	<1	16.5	114
IP2774	1.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.95	15	0.169	14.9	23.9	36.6	<0.14	30.4	<1	15.6	152
IP2776	1.00-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	8.01	47.5	2.6	160	404	2310	4.38	68.2	<1	54.3	1660
IP2776	2.00-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	7.61	37.9	0.99	226	335	391	3.24	75.5	<1	76.1	938
IP2776	3.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	7.81	18	0.278	13.7	43.5	68.2	0.404	24.6	<1	23	172
IP2776	4.00-	140930-86	24/09/2014	30/09/2014	14/10/2014	4.03	7.44	18.4	0.428	25.8	83.1	215	0.429	29.4	<1	23.3	395
IP2785	0.20-	140927-45	23/09/2014	27/09/2014	15/10/2014	-	7.81	104	1.32	16.2	348	127	0.361	29	<1	24.6	580
IP2785	1.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	-	7.06	8.5	<0.02	14.3	16.8	16.7	<0.14	26.6	<1	15.2	72.5
IP2785	2.50-	140927-45	23/09/2014	27/09/2014	13/10/2014	-	7.2	7.17	<0.02	13.5	13.4	14	0.175	21.8	<1	15	57.5
IP2785	3.50-	140927-45	23/09/2014	27/09/2014	14/10/2014	-	7.05	6.68	<0.02	13.6	16	14.8	0.154	20.4	<1	15.4	57.3
IP2787	0.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	3.86	8.31	41.4	0.646	15.2	146	489	<0.14	29.5	<1	20.7	830
IP2787	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.97	129	1.31	16.5	65.9	300	<0.14	27.8	<1	18.7	861
IP2787	3.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.29	9.09	0.0754	13	17.1	28.3	<0.14	20.2	<1	13.5	86
IP2788	0.50-	140927-29	22/09/2014	27/09/2014	10/10/2014	-	9.63	20.7	0.345	28.7	75.8	153	0.425	26.2	<1	20.3	288
IP2788	1.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	8.39	54.5	0.914	18.2	270	757	<0.14	30.4	<1	20.6	715
IP2788	2.50-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	6.84	11.3	0.344	14.2	46.5	23.1	<0.14	25.8	<1	16.4	73.5
IP2789	1.00-	140927-29	22/09/2014	27/09/2014	22/10/2014	-	8.92	15.2	0.0789	13.1	36.2	28.8	<0.14	36.7	<1	15.3	115
IP2789	2.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	-	7.59	15.9	<0.02	13.9	78.2	23.6	<0.14	28.2	<1	17.5	120
IP2789	3.00-	140927-29	22/09/2014	27/09/2014	09/10/2014	2.91	7.57	13.1	<0.02	13.3	55.6	18.5	<0.14	28	<1	17.1	87.1
IP2863	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	9.07	7.56	0.108	11.2	22.4	22.2	<0.14	24.6	<1	16.4	85.4
IP2863	1.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	7.38	20.4	0.556	17.9	41.7	75.2	<0.14	27.7	<1	17.8	150
IP2868	0.50-	140927-45	23/09/2014	30/09/2014	14/10/2014	-	6.81	17.4	0.289	13.8	19.9	24.8	<0.14	29.6	<1	15.2	81.4
IP2868	1.50-	140927-45	23/09/2014	30/09/2014	14/10/2014	-	6.72	12.6	<0.02	12.3	9.99	12.1	0.141	27.3	<1	14.8	58.2
IP2870	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	7.76	13.5	0.176	8.83	37.1	17.5	<0.14	39.1	<1	12.7	70.7
IP2870	1.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	7.47	24.8	0.775	16.8	49.9	94.4	<0.14	25.1	<1	18.9	189
TPE 1094	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	2.81	6.91	19.1	0.797	14.9	44	281	<0.14	23.6	<1	19.1	232
TPE 1094	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.92	16	0.0874	14.5	31.7	32.3	<0.14	33.9	<1	18.8	87.3
TPE 1094	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.46	10.2	<0.02	13.7	18.2	16.2	<0.14	37.6	<1	16.7	76.4
TPE 1094	3.10-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.59	7.74	<0.02	11.8	10.3	13.4	<0.14	26.4	<1	12.8	61.1
TPE 1095	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	4.5	8.36	27.7	0.788	14.2	62.7	106	0.377	21.4	<1	17.8	231
TPE 1095	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	5.68	185	1.02	10.9	274	83.9	<0.14	12.6	<1	15.4	144
TPE 1095	2.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	5.99	7.2	<0.02	11.9	11.7	11.8	<0.14	24.1	<1	15.1	60.1
TPE 1095	3.20-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.56	9.31	<0.02	11	11	12.4	<0.14	24	<1	11.8	61.7
TPE 1179	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.55	79.2	2.97	215	168	59.4	<0.14	24.8	1.7	132	3170
TPE 1179	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	7.43	10.3	<0.02	14	9.95	29.5	<0.14	13.9	<1	15.4	84
TPE 1179	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	7.66	5.53	<0.02	13.2	8.08	12.1	<0.14	24	<1	14.5	63.6
TPE 1181	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	5.83	7.2	<0.02	11.5	6.04	10.2	<0.14	15	<1	10.9	43.1
TPE 1181	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	6.88	8.01	<0.02	11.3	10.9	13.2	<0.14	23.6	<1	13.7	61.3
TPE 1261	0.40-	141001-76	26/09/2014	01/10/2014	05/11/2014	-	8.24	137	3.1	20.8	590	899	<0.14	31.2	<1	22.4	2050
TPE 1261	0.70-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	6.71	18.4	0.139	16.7	30.6	36.1	<0.14	35.3	<1	17.2	172
TPE 1337	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	7.68	13.7	0.0592	11.6	19.1	17.7	<0.14	18.1	<1	13.5	73.6
TPE 1337	2.10-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	6.7	10.3	0.054	13.6	6.39	11.1	<0.14	22.7	<1	11.2	61.8
TPE1096	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.68	18.6	0.439	13.9	38.2	59.6	<0.14	23.2	<1	15.4	151
TPE1096	0.90-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.15	40.7	2.59	7.84	295	175	0.195	18.3	1.07	14	199
TPE1096	2.00-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.78	27.9	1.33	12.6	48.9	27.8	<0.14	15.9	<1	14.1	118
TPE1096	3.00-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	5.71	6.5	<0.02	12.1	11.3	12.4	<0.14	24.5	<1	15	63.6
TPE1100	0.20-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.93	61.7	1.81	18.5	123	283	0.278	26.9	<1	25.4	553
TPE1102	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.09	9.26	<0.02	13.9	21.2	16.4	<0.14	25.7	1.06	13.8	72.2
TPE1102	1.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.16	5.75	0.115	19.6	14.8	21.2	<0.14	22.4	<1	20.3	52.3
TPE1178	0.20-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	7.51	85.3	2.29	13.3	169	179	<0.14	36.6	1.43	16.7	415
TPE1178	1.00-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	5.9	10.6	0.271	21.7	35.8	23.4	<0.14	18.9	<1	27.5	64
TPE1178	1.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	6.67	10.1	<0.02	15.4	19.8	28	<0.14	28.9	1.01	17	191
TPE1183	0.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.54	12.1	0.265	13.8	33	20.9	<0.14	14.1	<1	16.1	51.1
TPE1183	1.50-	140930-86	24/09/2014	30/09/2014	14/10/2014	-	6.17	9.33	0.0465	14.6	18	14.1	<0.14	29.8	<1	15.9	68.5
TPE1184	0.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	5.99	11.8	0.149	12.1	12.1	12.5	<0.14	12.4	<1	12.8	35.5
TPE1184	1.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	6.64	10.7	<0.02	14.8	20.1	16.8	<0.14	29.2	<1	17	78.9
TPE1184	2.50-	140930-86	24/09/2014	30/09/2014	15/10/2014	-	6.77	19.8	0.183	15	50	26.4	<0.14	29.2	<1	16.6	97
TPE1259	0.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	9.01	14.9	0.271	14	46.5	67.1	<0.14	31.3	<1	19.6	189
TPE1259	1.50-	140930-86	24/09/2014	30/09/2014	16/10/2014	-	8.7	16.9	0.191	19	92.4	39	<0.14	32	<1	22.4	220
TPE1260	0.50-	140930-86	24/09/2014	30/09/2014	16/10												

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP1751	0.50	150214-75	11/02/2015	14/02/2015	23/04/2015	-	6.83	22.7	0.76	14.2	40.6	75.6	0.162	25.5	<1	15.4	264
IP1751	1.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	7.06	9.28	0.284	10.1	12.4	26.2	<0.14	21.7	<1	9.47	103
IP1752	0.50	150214-75	11/02/2015	14/02/2015	23/04/2015	-	7.84	41.3	2.11	35.5	132	466	<0.14	26.3	<1	32.3	1430
IP1752	1.50	150214-75	11/02/2015	14/02/2015	03/03/2015	-	7.34	7.36	0.274	10.4	14.4	45	<0.14	19.5	<1	10.2	117
IP1752	2.50	150214-75	11/02/2015	14/02/2015	03/03/2015	-	7.31	6.91	0.249	10.7	8.51	11.2	<0.14	24.4	<1	8.84	59.6
IP2106	0.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	6.42	27.3	0.889	31.5	77.5	361	<0.14	22.9	<1	15.9	151
IP2106	1.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	7.41	9.23	0.284	11.8	17.6	28.2	<0.14	18	<1	12.5	67.2
IP2603	0.50	150214-75	11/02/2015	14/02/2015	04/03/2015	-	9.74	11.7	0.377	8.79	31.8	27.6	<0.14	29.2	<1	13	95.2
IP2603	1.50	150214-75	11/02/2015	14/02/2015	02/03/2015	1.2	6.95	9.09	0.259	16.4	14.4	15.3	<0.14	21.5	<1	18.7	57.1
IP1567	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	7.26	25.3	0.331	10.8	41.6	11.3	<0.14	27	<1	26.8	23.4
IP1567	2.00	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.5	34.8	0.857	14.4	252	78.6	1.46	64.2	<1	43.7	363
IP1567	3.50	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.34	19.4	0.341	14	39.8	15.5	<0.14	23.4	<1	19	62.3
IP1573	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	5.08	20.3	0.719	20.3	37.9	599	0.141	32.8	<1	16.3	110
IP1576	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	70.5	6.69	37.7	0.526	11.1	73.4	22.6	<0.14	42.3	1.16	31.1	62.5
IP1576	2.00	150221-57	17/02/2015	21/02/2015	12/03/2015	-	7.32	23.6	0.237	12.6	42.4	21.1	0.43	30.6	<1	33.7	34.9
IP1576	3.50	150221-57	17/02/2015	21/02/2015	12/03/2015	-	6.46	50.5	2.49	17.9	267	14300	19.7	76.7	<10	26.3	346
IP1577	0.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	8.75	98.2	0.347	12.4	58.5	27.3	<0.14	30.5	<1	35.8	46.3
IP1577	1.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	8.1	54.3	0.425	18.4	116	23.4	0.339	46.6	<1	45.9	55.2
IP1577	2.50	150221-73	18/02/2015	21/02/2015	16/03/2015	85.9	7.28	144	<0.02	7.98	35.4	21.9	<0.14	26	<1	27.9	20.3
IP1577	3.50	150221-73	18/02/2015	21/02/2015	12/03/2015	-	7.15	57.8	0.497	14.7	46.3	19.6	<0.14	31.7	<1	34.8	40.6
IP1578	0.50	150221-73	18/02/2015	21/02/2015	13/03/2015	-	7.23	54.7	0.319	8.73	38.4	4130	<0.14	20.7	<1	25.2	43.5
IP1578	1.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.54	70.3	0.404	14.6	69.2	32.8	<0.14	45.8	<1	39.2	76.8
IP1578	2.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.63	20.8	0.245	14.9	64.3	10.2	<0.14	33.7	<1	41.2	27.4
IP1578	3.50	150221-73	18/02/2015	21/02/2015	16/03/2015	-	7.2	28.8	<0.02	12.2	32.8	12.8	<0.14	21.9	<1	30.3	41
IP1578	4.30	150221-73	18/02/2015	21/02/2015	16/03/2015	-	9.36	15.9	0.85	18.1	29.4	17.1	<0.14	28.8	<1	22	147
TPE0737	0.50	150221-73	18/02/2015	21/02/2015	16/03/2015	43.3	8.2	28.8	1.1	15.5	75.8	127	0.157	31.7	<1	26.7	256
TPE0739	0.50	150221-57	17/02/2015	21/02/2015	22/04/2015	-	6.86	38.6	1.86	21.2	80.1	76.7	<1.4	63.3	<10	30.5	176
TPE0739	2.00	150221-57	17/02/2015	21/02/2015	11/03/2015	-	7.08	55.9	1.89	24.2	107	71	<1.4	74	<10	31.3	131
TPE0739	3.50	150221-57	17/02/2015	21/02/2015	12/03/2015	-	6.75	30.9	1.08	14.6	84.2	145	0.45	43.2	<1	27.8	198
IP1570	0.50	150302-28	26/02/2015	02/03/2015	26/03/2015	-	9.78	13.6	0.145	13	37.1	67.3	0.296	18	<1	15	192
IP1570	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.14	22.2	0.435	13.3	63.1	25.7	0.517	42.6	<1	35.6	67.5
IP1570	2.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.73	36.7	0.792	15.1	105	231	<0.14	46.9	<1	28.5	1340
IP1907	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.32	11.2	<0.02	12.8	31.5	53.4	<0.14	23.4	<1	14.8	107
IP1907	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	7.16	7.76	0.488	12.5	17.5	13.9	<0.14	34.7	<1	13.4	68.3
IP1918	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	2.91	5.6	9.19	1.35	12.1	18.1	14.1	<0.14	29	<1	14.1	80.8
IP1918	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	5.87	7.12	0.455	11.8	12.8	11.9	<0.14	27	<1	12.1	66.6
IP2093	0.50	150302-28	26/02/2015	02/03/2015	24/03/2015	22.2	4.76	120	1.51	28.8	68.8	107	<0.14	78	<10	19	83.5
IP2093	1.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	5.07	12.1	0.406	18.6	15.2	13.5	<0.14	21.2	<1	19.4	70.9
IP2599	0.50	150302-28	26/02/2015	02/03/2015	25/03/2015	7.4	10.1	9.72	<0.02	10.5	24.2	36.1	<0.14	23.7	<1	18.4	118
IP2599	1.50	150302-28	26/02/2015	02/03/2015	25/03/2015	-	10.9	10.3	<0.02	9.87	29.6	33	<0.14	28.8	<1	14.5	111
IP2599	2.50	150302-28	26/02/2015	02/03/2015	23/03/2015	-	8.02	12.3	0.469	16.9	12.1	19	<0.14	16.9	<1	20.2	67.5
IP2599	3.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.78	5.65	0.308	7.88	12.1	9.99	<0.14	15	<1	9.35	49.6
IP2599	4.50	150302-28	26/02/2015	02/03/2015	24/03/2015	-	6.95	7.47	0.401	13	12.6	12.6	<0.14	23.3	<1	13.1	63
IP1663	0.50	150304-83	02/03/2015	04/03/2015	31/03/2015	-	8.18	45.9	1.74	14.8	259	143	15.6	212	<1	36.6	674
IP1663	1.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	7.75	27.6	0.763	18.9	96.9	147	1.19	35.8	<1	13.2	186
IP1663	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	6.52	4.78	112	4.3	15.2	356	188	<0.14	29.7	1.38	21.3	414
IP1663	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	7.47	7.52	0.433	10.9	14.7	17.1	<0.14	19.6	<1	10.7	61.1
IP1664	0.50	150304-83	02/03/2015	04/03/2015	31/03/2015	24	7.53	26.3	1.61	30.9	214	327	0.454	68.5	<1	25.5	227
IP1664	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	5.48	274	5.65	88.2	218	51.6	<1.4	206	<10	8.54	63.2
IP1664	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.67	129	3.9	63.2	456	262	<1.4	124	<10	21	356
IP1664	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.61	9.01	0.431	11.2	17.2	17.1	<0.14	22.9	<1	11.2	63.2
IP1665	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	5.6	24	1.84	19.7	45.4	32.8	<0.14	30.3	<1	23.8	166
IP1665	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.65	9.39	<0.02	12.1	20.7	25.5	<0.14	24.6	<1	13.5	139
IP1665	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.33	6.41	0.55	10.5	8.88	8.91	<0.14	26.4	<1	10.5	61
IP1665	3.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.36	8.3	0.0516	10.7	16.5	14.9	<0.14	24.1	<1	11.5	75.4
IP1930	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.34	8.48	1.36	13	16.2	13.1	<0.14	23.2	<1	14.1	57.1
IP1930	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.29	8.58	0.499	11.5	14.7	14.2	<0.14	24.3	<1	13	63.4
IP1930	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	5.99	9.75	0.503	11.7	17.1	17.7	<0.14	28.2	<1	13.7	72.9
IP2487	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.23	70.9	2.94	9.84	241	266	0.595	30.6	<1	15.3	1020
IP2487	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	7.06	8.62	<0.02	12.6	12.3	14	<0.14	19.8	<1	13.5	57.2
IP2487	2.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.36	5.9	<0.02	9.93	10.2	9.83	<0.14	23.6	<1	10.7	59.4
IP2878	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	6.99	8.66	2.37	20.2	30.3	22.1	<0.14	41.6	<1	17.4	110
IP2878	1.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.81	7.83	0.411	12.1	12.8	12	<0.14	21.7	<1	12.6	53.4
IP2878	2.50	150304-83	02/03/2015	04/03/2015	30/03/2015	-	6.24	8.75	0.416	14.2	14.4	12.4	<0.14	24.8	<1	15.5	60.2
TPE0837	0.50	150304-83	02/03/2015	04/03/2015	27/03/2015	-	5.7	12.									

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP2005	0.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	2.41	5.42	3.6	<0.02	14.5	12.9	10.9	<0.14	18.2	18.3	41.3	
IP2005	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	5.31	11.1	<0.02	20.6	20.8	22.5	<0.14	34.9	<1	26.5	85.7
IP2005	2.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	7.99	31.8	0.633	14.9	89.6	94	<0.14	29.9	1.13	19.8	266
IP2006	0.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	5.67	5.55	0.0437	14.5	9.57	13.7	<0.14	20.5	<1	16	51.7
IP2006	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	7.14	84.6	3.85	15	141	206	<0.14	35.3	1.95	21.8	339
IP2007	0.50-	141121-129	18/11/2014	21/11/2014	13/12/2014	-	6.79	14.9	1.02	8.88	19.9	23.3	<0.14	27.8	3.01	11.8	72.1
IP2007	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	4.55	5.1	<0.02	23.5	9.01	21.3	<0.14	27.2	<1	35.5	49.1
IP2007	2.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	5.27	7.32	<0.02	11.4	11.5	10.9	<0.14	26	<1	12.6	71.5
IP 1924	0.80-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	5.6	11.2	0.456	12.5	22.2	14.7	<0.14	19.4	<1	13.5	75.3
IP 1924	2.00-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	6.87	8.12	0.487	12.8	16.7	14.1	<0.14	26.8	<1	14.9	77.5
IP 1843	0.50-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	6.69	31	0.936	17.7	55.4	37.7	<0.14	17	<1	26.6	141
IP 2203	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	4.43	7.94	18.9	0.897	16.3	104	185	0.761	27.6	<1	31	309
IP 2678	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	7.38	30.1	1.22	18.3	103	178	<0.14	27.2	<1	27.5	692
IP 2678	1.50-	140828-42	22/08/2014	28/08/2014	07/09/2014	-	6.54	9.86	0.47	16.3	10.3	10.7	<0.14	16.7	<1	17.4	56.5
IP2096	0.30-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	6.99	30	0.491	16.4	54	71.2	<0.14	23.7	1.28	21.3	124
IP2096	1.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.51	21.9	0.515	6.16	21.2	7.16	0.167	4.7	<1	8.47	35.6
IP2096	2.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.41	17.2	0.512	6.27	18.3	6.07	<0.14	4.03	<1	10.5	36.1
IP2096	3.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.53	6.85	<0.02	11.7	9.84	10.7	<0.14	24.9	<1	10.8	58.3
IP2097	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	7.37	15.8	0.234	16.3	30.2	63.7	<0.14	43.3	1.12	18	123
IP2097	1.50-	141007-35	02/10/2014	07/10/2014	22/10/2014	-	5.08	7.14	<0.02	14.3	13.4	14.5	<0.14	34.7	<1	13.9	66.8
IP2097	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.79	7.03	0.189	7.99	6.9	9.64	<0.14	20.5	<1	8.32	53.3
IP2098	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	8.4	8.36	0.312	15.3	12.6	45.3	<0.14	41.3	<1	14.4	107
IP2098	1.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.13	13.8	0.468	17.3	14.3	8.89	<0.14	28	<1	22.6	85.9
IP2098	2.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	6.15	7.79	<0.02	11.9	10.9	7.31	<0.14	26.3	<1	12.8	65.3
IP2099	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	6.84	30.1	0.554	17.6	55.6	65	<0.14	21.4	1.55	23.2	162
IP2099	1.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.85	10.6	<0.02	14.9	15.9	19.9	<0.14	22.2	<1	16	84.2
IP2099	2.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.55	7.39	<0.02	11.2	10.9	10.7	<0.14	20.8	<1	10.1	68.5
IP2100	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	1.86	6.7	21.2	0.507	16.4	36.3	32.8	<0.14	19.8	1.61	20.4	121
IP2100	1.10-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.86	16	0.0327	16.7	14.4	16.1	<0.14	14.5	<1	28.1	48.2
IP2100	1.70-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.66	7.75	0.0541	14.4	16.3	18.3	<0.14	16.5	<1	18.3	44.8
IP2100	2.90-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.68	6.63	0.0934	11.2	12.2	10.9	<0.14	20.4	<1	11.5	63
IP2104	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	8.72	23.4	0.257	16.4	49.2	140	0.369	34.2	<1	23	242
IP2104	1.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.85	9.95	<0.02	14.4	22.3	15.3	<0.14	25.6	1.18	13	83.9
IP2104	2.00-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	7.69	105	0.898	6.55	38.8	127	<0.14	30.6	<1	43.9	288
IP2193	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	1.72	7.93	20.3	0.355	14.6	37.4	36.6	<0.14	21.3	1.8	19.2	127
IP2193	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	4.86	7.6	0.0722	14.7	14.4	14.1	<0.14	20.1	<1	16.5	64.4
IP2193	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.29	7.26	<0.02	11.6	11.5	11.9	<0.14	25	<1	10.9	66.2
TPE1007	0.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	3.21	7.7	22.5	1.01	16.1	55.6	89.2	<0.14	19.2	1.4	20.7	657
TPE1007	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.22	8.77	<0.02	13.6	15.1	18.1	<0.14	18.4	<1	15.1	65.6
TPE1007	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	5.54	6.46	<0.02	11	9.74	10	<0.14	23.5	<1	10.1	55.5
TPE1008	0.60-	141007-35	02/10/2014	07/10/2014	17/11/2014	-	5.99	26.7	0.247	14.8	92.9	199	0.714	31.1	<1	34	189
TPE1008	1.60-	141007-35	02/10/2014	07/10/2014	26/10/2014	3.74	5.46	13.3	0.0866	12.7	10	17.7	<0.14	11.6	<1	16.1	62.1
TPE1010	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	6.57	118	1.26	18	177	301	1.08	36.5	2.83	25.2	184
TPE1010	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	1.31	5.1	14	<0.02	20.9	14	15.5	<0.14	21.6	<1	18.1	80.5
TPE1010	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	5.43	7.69	0.233	13.9	11.3	12.6	<0.14	24.2	<1	12.6	67.4
IP2094	0.40-	141009-111	09/10/2014	17/11/2014	-	-	8.85	40.3	0.168	11.4	34.5	45.3	0.926	15.1	<1	16.4	145
IP2094	1.40-	141009-111	09/10/2014	26/10/2014	-	-	4.75	4.89	0.123	17.4	10.9	13.9	<0.14	20.2	<1	21.2	45.6
IP2094	2.40-	141009-111	09/10/2014	26/10/2014	-	-	6.72	343	31.2	18.6	371	342	0.315	120	1.69	27.8	2350
IP2095	0.50-	141009-111	09/10/2014	25/10/2014	2.45	7.83	15.1	0.436	12.2	83.4	34.2	<0.14	23.6	<1	14.7	256	
IP2095	1.50-	141009-111	09/10/2014	26/10/2014	-	-	6.41	30.4	1.06	12.8	63.6	36.5	0.51	22.2	<1	25.8	112
IP2095	2.50-	141009-111	09/10/2014	26/10/2014	-	-	5.87	8.27	<0.02	16.6	20.8	17.1	<0.14	32.7	<1	19	88.4
IP2101	0.40-	141009-111	09/10/2014	25/10/2014	-	-	7.37	11	0.627	15.5	21.1	28.7	<0.14	24.1	<1	17.4	95.6
IP2101	1.50-	141009-111	09/10/2014	26/10/2014	-	-	5.71	10.5	0.14	15.8	29	19.7	<0.14	32	<1	18.3	105
IP2101	2.50-	141009-111	09/10/2014	26/10/2014	-	-	5.94	12.2	0.24	13.9	8.38	14.2	<0.14	24.1	<1	19.5	63.2
IP2102	0.30-	141009-111	09/10/2014	25/10/2014	-	-	7.99	20.6	0.691	14.8	48.4	71.6	<0.14	21.2	<1	19.3	215
IP2102	1.25-	141009-111	09/10/2014	26/10/2014	-	-	5.96	89.5	9.07	5.33	75.1	26.9	0.14	42.1	2.19	4.58	484
IP2102	1.60-	141009-111	09/10/2014	24/10/2014	-	-	-	14.6	0.42	15.1	22.6	16.6	<0.14	34	<1	16.8	84.2
IP2102	2.60-	141009-111	09/10/2014	26/10/2014	1.62	5.48	8.16	0.202	12.2	12.9	12.7	<0.14	25.4	<1	12.7	66	
IP2103	0.30-	141009-111	09/10/2014	25/10/2014	-	-	8.52	19.9	0.494	17.5	48.8	106	<0.14	32.2	<1	20.9	366
IP2103	1.00-	141009-111	09/10/2014	25/10/2014	-	-	5.03	6.1	0.115	16.6	19.6	20.9	<0.14	19.8	<1	22.7	42.2
IP2103	1.50-	141009-111	09/10/2014	25/10/2014	-	-	5.66	107	2.66	5.71	777	276	0.242	26.1	2.31	9.05	195
IP2103	2.50-	141009-111	09/10/2014	26/10/2014	-	-	4.94	12	<0.02	13.3	16.5	13.8	<0.14	32.9	<1	13.9	72.1
IP2192	1.00-	141011-9	11/10/2014	28/10/2014	-	-	7.72	22	0.512	14.7	48.4	44.6	<0.14	20.9	1.05	19.5	140
IP2192	1.40-	141011-9	11/10/2014	28/10/2014	-	-	5.39	455	4.99	6.66	744	289	<0.14	10.7	1.8	8.83	263
IP2192	2.00-	141011-9	11/10/2014	28/10/2014	-	-	5.67	6.37	0.113	14.2	13.6	13.6	<0.14	22.8	<1	16.2	63.2
IP2192	3.00-	141011-9	11/10/2014	28/10/2014													

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP 2775	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014	-	7.07	42.5	1.52	37	350	573	2.37	57.7	<1	134	897
IP 2775	1.50-	141001-77	25/09/2014	01/10/2014	18/10/2014	-	7.06	39.7	1.26	25.9	173	643	1.43	31.9	<1	58.7	903
IP 2775	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	7.92	10.3	0.0771	13	19.5	26.4	<0.14	22.5	<1	14.8	107
IP 2777	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014	-	7.68	52	1.58	73.8	308	895	2.07	54.2	<1	60.3	1290
IP 2777	2.00-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.75	9.99	0.178	14.6	21.3	44.5	<0.14	25.1	<1	15.7	101
IP 2778	0.50-	141001-77	25/09/2014	01/10/2014	12/11/2014	12.1	7.8	93	1.71	56.7	307	175	1.34	45.3	<1	45	677
IP 2778	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.88	24	0.792	30.9	95.1	259	0.508	40.1	<1	34.5	<19
IP 2780	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014	-	7.87	52.5	1.66	51.8	282	1390	2.14	54	<1	61.6	1320
IP 2780	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	7.7	14.2	0.0494	16.5	76.4	70.2	<0.14	24.4	<1	17.9	221
IP 2864	1.00-	141001-77	25/09/2014	01/10/2014	12/11/2014	-	7.6	59.4	2.35	71	468	1230	3.12	66.2	<1	53.1	1780
IP 2864	2.00-	141001-77	25/09/2014	01/10/2014	18/10/2014	-	6.96	28.8	1.31	24.3	87.7	251	<1.4	39	<10	27.1	512
IP 2867	0.50-	141001-77	25/09/2014	01/10/2014	18/10/2014	-	8.98	12.9	0.435	20.4	32.9	27.2	<0.14	72.7	<10	52.7	97.4
IP 2867	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.8	11.9	0.0887	14.9	18.5	20.7	<0.14	28.6	<1	16.9	84.1
TPE 1185	0.50-	141001-77	25/09/2014	01/10/2014	12/11/2014	-	6.97	54	1.38	13.5	114	256	<0.14	21	<1	23.2	420
TPE 1185	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	5.18	7.1	0.262	11.7	12.6	17.8	<0.14	20.6	<1	12.5	65.8
TPE 1185	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	0.984	6.89	8.67	0.157	13.6	13.4	18.9	<0.14	26.2	<1	13.4	72.9
TPE 1186	0.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.68	15.5	0.38	19	14.2	28	<0.14	16	<1	24.6	132
TPE 1186	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	5.32	6.58	<0.02	11.5	9.89	11.4	<0.14	24.2	<1	9.71	56.5
TPE 1186	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.56	7.85	<0.02	13.5	10.8	13.1	<0.14	24.6	<1	11	61.5
TPE 1187	0.20-	141001-77	25/09/2014	01/10/2014	12/11/2014	2.22	6.03	12.3	0.253	13.6	19.9	24	<0.14	14.5	<1	16.7	76.3
TPE 1187	0.60-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	6.07	7.69	0.102	11.2	12.4	12.3	<0.14	21.6	<1	12.1	61.6
TPE 1268	0.50-	141001-77	25/09/2014	01/10/2014	12/11/2014	8.52	7.58	19.6	0.475	14.4	68.3	87.3	0.464	35.5	<1	24	250
TPE 1268	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014	-	8.57	206	2.62	15	550	1430	<0.14	32.1	<1	19.4	4130
TPE 1268	2.50-	141001-77	25/09/2014	01/10/2014	18/10/2014	-	6.67	9.48	<0.02	16.2	24.7	20.5	0.352	34.4	<1	18.1	85.1
IP2016	0.50-	140807-37		12/08/2014	27/08/2014	-	5.93	9.13	0.289	11.5	16.4	14.4	<0.14	19.4	<1	13.5	55.6
IP 2202	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.57	7.08	0.308	9.76	11.7	15.7	<0.14	20.5	<1	11.2	68.1
IP 2202	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	7.86	16.2	1.67	15.6	49.9	433	0.238	23.1	<1	20.2	206
IP 2674	0.50-	140803-11	31/08/2014	03/08/2014	19/08/2014	4.88	8.06	145	4.1	15.4	770	4890	<0.14	35.4	<1	20	6720
TPE 0758	0.50-	140808-10	06/08/2014	08/08/2014	10/12/2014	-	8.23	117	2.33	23.7	3220	1120	5.82	91.1	<10	49.1	3970
TPE 910	0.30-	140818-45	13/08/2014	18/08/2014	10/12/2014	-	6.12	58.8	1.79	14.8	148	78.7	<0.14	21.4	<1	21.1	206
TPE 910	1.00-	140818-45	13/08/2014	18/08/2014	10/12/2014	-	5.64	18.9	0.643	17.4	37	32.8	<0.14	16.6	<1	23.9	117
TPE 910	2.00-	140818-45	13/08/2014	18/08/2014	10/12/2014	-	6.14	6.04	0.524	13.1	14.8	14.8	<0.14	28.3	<10	15.4	71.5
TPE825	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015	-	8.85	51.6	2.69	20.6	175	1310	0.595	33.3	1.72	40.6	3100
TPE825	1.50-	141121-118	17/11/2014	21/11/2014	11/12/2014	-	5.04	89.3	4.13	20.4	416	283	0.566	36.7	1.59	27.6	549
TPE825	2.50-	141121-118	17/11/2014	21/11/2014	11/12/2014	-	6.83	7.07	<0.02	9.18	14.5	14.1	<0.14	18.1	<1	10.3	70.1
TPE826	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015	6.96	6.9	42.1	1.76	14.8	275	193	0.273	45.4	1.93	105	614
TPE826	1.50-	141121-118	17/11/2014	21/11/2014	12/12/2014	-	5.67	21.2	0.628	13.8	72.3	62.2	<0.14	29.1	<1	34.7	196
TPE922	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015	2.14	5.23	7.53	0.222	13.6	10.7	13.5	<0.14	14.4	<1	16.7	57.8
TPE922	1.50-	141121-118	17/11/2014	21/11/2014	11/12/2014	-	5.19	10.3	0.157	11.5	10.3	11.2	<0.14	25.4	<1	12.6	61.9
TPE923	1.00-	141121-118	17/11/2014	21/11/2014	11/12/2014	3.45	4.79	4.93	0.0476	13.9	20.6	13.5	<0.14	26.5	<1	16.9	76.7
TPE923	2.00-	141121-118	17/11/2014	21/11/2014	12/12/2014	1.41	6.24	9.8	0.0742	12.1	14.3	14.5	<0.14	26.4	<1	13.1	71.1
TP7038	0.50-	140627-104	25/06/2014	27/06/2014	10/07/2014	-	7.56	55.1	1.47	16.5	78.6	183	<0.14	22.7	<1	19.3	463
TP7038	1.00-	140627-104	25/06/2014	27/06/2014	10/07/2014	2.21	6.6	9.64	0.132	22.3	15.3	15.7	<0.14	20.4	<1	26.8	56.1
TP7038	2.00-	140627-104	25/06/2014	27/06/2014	10/07/2014	-	7.48	11.2	0.2	15.7	25.4	34.2	<0.14	20.6	<1	17.7	92.8
TP7038	3.00-	140627-104	25/06/2014	27/06/2014	10/07/2014	-	6.36	6.82	0.0664	11.8	11.4	12.9	<0.14	22.1	<1	12.4	53.5
TPE 1000	0.50-	140806-8	04/08/2014	06/08/2014	02/12/2014	-	7.19	35.6	1.79	13.4	85.5	103	<0.14	44.7	<10	25.6	249
TPE 1000	1.50-	140806-8	04/08/2014	06/08/2014	02/12/2014	-	6.93	25.8	0.679	16	54.3	30	<0.14	18.1	<1	20.6	96
TPE 1000	2.50-	140806-8	04/08/2014	06/08/2014	02/12/2014	-	5.83	15.5	0.602	16	14.6	15.6	<0.14	15.6	<1	20.5	78.9
TPE 1000	3.50-	140806-8	04/08/2014	06/08/2014	02/12/2014	2.65	6.06	15	0.129	14.4	22.2	16.5	<0.14	24	<1	16.3	64.9
TPE 1000	4.50-	140806-8	04/08/2014	06/08/2014	02/12/2014	-	6.27	7.06	0.147	15.4	20.5	15.8	<0.14	37	<1	15.3	91
TPE1014	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	8.5	8.61	0.462	10.2	18.9	33.7	<0.14	10.7	<1	15.5	71.3
TPE1014	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	7.32	23.4	1.28	36.2	277	273	0.829	34.8	<1	50.8	388
TPE1014	2.30-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	6.7	9.09	0.36	11.7	12.9	23.8	<0.14	16.5	<1	14.2	55.1
TPE1017	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	6.69	54.4	1.57	14.9	125	66.5	<0.14	21.4	<1	22.4	171
TPE1017	1.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	7.29	5.9	35.5	1.32	14.2	83.3	57.5	<0.14	24	<1	22.6	171
TPE1017	2.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	5.95	5.59	0.416	9.74	9.96	9.31	<0.14	19.1	<1	9.96	55
TPE1017	3.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	5.9	7.05	0.508	11.7	13.6	13.9	<0.14	23.8	<1	13.4	72.3
TPE1017	4.00-	140918-12	15/09/2014	18/09/2014	30/09/2014	-	5.84	9.02	0.6	13	17.9	15.8	<0.14	23.8	<1	13	79.8
TPE1018	0.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	7.37	14.1	0.395	12.9	28.6	40.1	<0.14	22.4	<1	16.5	90.4
TPE1018	1.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	5.51	20.6	0.591	14.7	35.4	34	0.18	23.2	1.22	17.8	93.3
TPE1018	2.50-	140709-14	07/07/2014	09/07/2014	09/10/2014	-	6.94	9.57	0.245	12.7	16.1	15.2	<0.14	20.7	<1	14.7	59.2
TPE1333	0.50-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	8.03	22.8	0.787	14.8	61.9	133	<0.14	25.2	<1	17.7	262
TPE1333	1.00-	140708-59	07/07/2014	08/07/2014	07/10/2014	5.17	7.69	30.6	0.715	13.4	68.2	564	<0.14	24.5	<1	24.5	353
TPE1333	1.50-	140708-59	07/07/2014	08/07/2014	07/10/2014	-	6.86	10.4	0.192	17.5	18.2	35.5	<0.14	21.4	<1	20.3	68.1
TPE1333	2.50-	140708-59	07/07/2014	08/07/2014	07/10/2												

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Excavate

		Soil Organic Matter (SOM)		pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc			
		Commercial		Deep 1%													
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
IP2485	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	8.31	305	10.4	23	5460	3450	<1.4	50.9	<10	40.5	12700
IP2679	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	2.81	6.32	15.9	0.507	12.9	58.2	34.3	<0.14	18.1	<1	15.9	88.2
IP2679	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	7.25	8.37	0.605	12	20.6	17.2	<0.14	24	<1	13.8	75.2
IP2679	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	7.33	6.73	<0.02	11.7	12.7	12.4	<0.14	23.2	<1	1.29	54.3
TPE0911	0.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	5.6	13.2	0.421	14.3	23.9	29.6	<0.14	23.3	<1	18	77.8
TPE0911	1.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	6.59	10.2	0.728	14.4	18.8	15.3	<0.14	28.8	<1	16.2	72.1
TPE0911	2.50-	150402-82	31/03/2015	02/04/2015	06/05/2015	-	6.48	8.56	0.798	12.3	11.6	12.7	<0.14	29.6	<1	13.5	69.7
IP1753	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	6.06	47.9	2.42	17	128	243	<0.14	24.4	<1	17.9	1280
IP1753	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.77	11.4	0.594	12.9	22.7	37.8	<0.14	22.8	<1	13.9	127
IP1753	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.93	7.02	0.542	8.35	7.77	9.79	<0.14	20.9	<1	8.05	55.1
IP1753	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.03	5.93	0.348	8.38	9.01	10.5	<0.14	20.2	<1	9.09	53
IP2858	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	2.48	8.21	21.5	1.23	13	38.9	26.1	<0.14	15.4	<1	19.1	113
IP2858	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.79	18.5	0.636	13.7	29.9	101	<1.4	25.4	<10	15.5	161
IP2858	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.81	9.74	<0.02	14.1	16.1	22.4	<0.14	22	<1	13.5	69.9
IP2858	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.42	8.3	0.32	11.8	16	28.2	<0.14	21.3	<1	12.9	83.4
IP2858	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.85	7.94	0.346	13.4	15.5	19.4	<0.14	23.8	<1	14.9	65.6
IP2876	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	9.4	8.54	12.6	0.599	13	43.4	41.4	<0.14	36.1	<1	14	200
IP2876	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.67	23.6	0.701	12.9	90.1	40.2	<0.14	37.5	<1	15.5	250
IP2876	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	8.23	16.3	0.682	12.6	85.7	44.9	<0.14	29	<1	13.9	190
TPE1335	0.50-	150407-4	01/04/2015	07/04/2015	22/04/2015	-	6.63	8.12	0.518	16.1	13.2	14.1	<0.14	23.6	<1	15.6	96.4
TPE1335	1.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.62	9.93	<0.02	16.8	19.2	14	<0.14	22.9	<1	17.3	50.3
TPE1335	2.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	7.1	8.2	0.261	15.8	14.1	12.4	<0.14	22.7	<1	16.9	50.9
TPE1335	3.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	5.77	7.92	0.268	15.4	12.4	19.1	<0.14	23.3	<1	16.4	60.4
TPE1335	4.50-	150407-4	01/04/2015	07/04/2015	21/04/2015	-	6.29	7.6	<0.02	15.5	15.2	14.5	<0.14	22	<1	15.4	55.9

Excavate

Monitor Phase 58

Excavate

Monitor Phase 58					Commercial Deep 1%										Aliphatics >C10-C12										Aliphatics >C12-C16										Aliphatics >C16-C21										Aliphatics >C21-C35										Aliphatics >C35-C44										Aliphatics >C5-C6										Aliphatics >C6-C8										Aliphatics >C8-C10										Aromatics >EC10-EC12										Aromatics >EC12-EC16										Aromatics >EC16-EC21										Aromatics >EC21-EC35										Aromatics >EC35-EC44										Aromatics >EC40-EC44										Aromatics >EC5-EC7										Aromatics >EC7-EC8										Aromatics >EC8-EC10										Benzene										Ethylbenzene										Surrogate % recovery**										GRO TOT (Moisture Corrected)										Methyl tertiary butyl m,p-Xylene ether (MTBE)										o-Xylene										sum of detected by GC										detected mpo xylene by GC										Aliphatics & Aromatics >C5-C44										Total Aliphatics >C12-C44										Total Aromatics >EC12-EC44																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Monitor Phase 58

Excavate

	Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	Methyl tertiary butyl m,p-Xylene ether (MTBE)	o-Xylene	sum of detected BTX by GC	detected mpo xylene by GC	Toluene	Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44				
Commercial Deep 1%																				71000	617000	547000	5000	389000									
Date Complete	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg				
2/10/2014	172000	1030000	877000	686000	160000	33800	381000	249000	114000	171000	247000	337000	142000	57500	968	<200	166000	968	<60	118	1120000	<120	<100	<60	968	<180	<40	4770000	2760000	896000			
10/10/2014	<40	2300	38800	64000	15400	<40	<40	<40	<40	<100	8520	45300	19800	7380	<40	<40	<40	<40	<12	87	<176	<24	<20	<12	<96	<36	<8	194000	120000	73600			
10/10/2014	<40	1030	5790	32800	30100	<40	<40	<40	<40	<100	6740	44700	48200	21800	<40	<40	<40	<40	<12	73	<176	<24	<20	<12	<96	<36	<8	169000	69600	99700			
10/10/2014	<40	27100	246000	409000	83200	<40	<40	<40	<40	<3930	52800	267000	127000	52800	<40	<40	<40	<40	<12	77	<176	<24	<20	<12	<96	<36	16.4	1220000	765000	451000			
10/10/2014	117	53800	146000	164000	59600	<40	<40	44.1	77.7	7260	41100	127000	68100	28400	<40	<40	<40	<40	<12	90	321	<24	<20	<12	<96	<36	<8	667000	423000	243000			
10/10/2014	626	8160	45500	81800	51100	<40	<40	136	417	2270	12500	75700	46400	18700	<40	<40	90.4	<40	<12	94	1290	<24	<20	<12	<96	<36	<8	325000	187000	137000			
10/10/2014	293	3930	14800	44100	33800	<40	<40	53.8	196	<100	3460	37900	33000	15100	<40	<40	<100	<40	<12	95	610	<24	<20	<12	<96	<36	<8	172000	96600	74300			
10/10/2014	58200	201000	71000	72500	19100	837	9670	19200	38800	204000	31900	54900	20000	8300	<40	<40	12800	<40	<12	114	140000	<24	<20	<12	<96	<36	<8	813000	363000	311000			
10/10/2014	51200	102000	29100	23100	6750	<40	1420	11000	34100	107000	17300	23300	<100	<100	<40	<40	7320	<40	<12	101	105000	<24	<20	<12	<96	<36	<8	414000	161000	148000			
10/10/2014	72.8	4470	22500	85200	45100	<40	<40	<40	48.2	1810	8890	74700	40600	17300	<40	<40	<40	<40	<12	15	217	<24	<20	<12	<96	<36	<8	283000	157000	126000			
10/10/2014	72.4	<100	29500	147000	156000	<40	80.4	84.4	<100	10500	127000	95700	42100	<40	<40	153	<40	28.1	69	470	45.6	<20	24.1	97.8	69.7	<8	567000	333000	233000				
10/10/2014	<40	14300	55500	154000	54700	<40	<40	<40	<40	<100	18200	171000	118000	51500	<40	<40	<40	<40	<12	92	<176	<24	<20	<12	<24	<9	<8	585000	278000	307000			
10/10/2014	149000	641000	218000	258000	66100	2280	42200	67600	99600	172000	59700	111000	45000	18400	<100	<100	45100	<100	<30	105	406000	<60	<50	<30	<240	<90	<20	1980000	1180000	388000			
10/10/2014	29000	409000	360000	434000	129000	685	14700	25100	19300	48800	87200	176000	85000	35000	<40	<40	16700	<40	<12	106	105000	<24	<20	<12	<96	<36	<8	1840000	1330000	397000			
10/10/2014	45500	368000	359000	469000	143000	1010	28100	53300	30300	154000	180000	341000	145000	61800	93	<40	35500	93	<12	123	194000	<24	<20	<12	<96	<36	<8	2350000	1340000	821000			
10/10/2014	30400	289000	261000	228000	61100	58.2	6230	21900	20300	27000	48600	86800	48600	18300	<40	<40	14600	<40	<12	108	93400	<24	<20	<12	<96	<36	<8	1140000	839000	211000			
10/10/2014	136	4440	4280	26100	<100	<40	<40	176	133	90.1	5900	7260	40100	20500	<40	<40	94.6	<40	<12	61	676	<24	<20	<12	<96	<36	<8	109000	34800	73800			
10/10/2014	66500	558000	407000	271000	57200	212	3920	35500	44300	440000	166000	146000	46700	20200	58.8	<40	23700	58.8	<12	120	174000	<24	<20	<12	<96	<36	<8	2270000	1290000	799000			
10/10/2014	228000	832000	438000	262000	32400	2540	54000	118000	152000	190000	141000	137000	42300	14800	<200	<200	78400	<200	<60	169	633000	<120	<100	<60	<24	<9	<40	2710000	1560000	511000			
10/10/2014	44900	125000	98800	73700	19300	647	10800	17500	30000	138000	51700	44900	16900	7960	<40	<40	11700	<40	<12	106	116000	<24	<20	<12	<24	<9	<40	684000	317000	252000			
10/10/2014	1050	31600	88500	223000	97600	71.3	231	332	702	12800	51300	247000	148000	67900	<40	<40	229	<40	<12	80	2630	<24	<20	<12	<96	<36	<8	902000	441000	458000			
10/10/2014	33100	992000	565000	805000	195000	179	2340	12200	22100	241000	147000	455000	214000	82800	<40	<40	8130	<40	<12	79	78000	<24	<20	<12	<96	<36	<8	3690000	2560000	1060000			
10/10/2014	5570	128000	143000	370000	122000	52.8	833	2390	3710	116000	89100	373000	198000	88000	<40	<40	1590	<40	<12	67	14200	<24	<20	<12	<96	<36	<8	1550000	762000	776000			
10/10/2014	430000	1790000	532000	400000	74300	<200	22500	162000	286000	445000	154000	208000	75800	30400	<200	<200	108000	<200	<60	112	1010000	<120	<100	<60	<24	<9	<40	4690000	2800000	883000			
10/10/2014	<200	3880	11300	59100	11800	<200	<200	<200	<200	<100	2110	23700	8660	3560	<200	<200	<200	<200	<60	73	<880	<120	<100	<60	<24	<9	<40	121000	86100	34500			
10/10/2014	708	24600	32000	82800	18500	<200	<200	384	472	37600	20000	69200	24600	9920	<200	<200	265	<200	<60	80	2150	<100	<100	<60	<24	<9	<40	311000	158000				

Monitor Phase 58

Excavate		Commercial Deep 1%										71000										617000										547000										5000										389000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date 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Excavate		Commercial Deep 1%																																											
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%				
IP 1667	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	18.6		105	30.9	79.9	456	482	786	363		231	469	101		120	596	23.8	325	321		104	5270		107	448		102	516												
IP 1668	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	161		113	60	355	3180	3350	4830	2650		1690	3720	115		923	3910	149	2320	736		113	33000		119	1950		109	3060												
IP 1669	0.30-	140808-10	06/08/2014	08/08/2014	22/08/2014	55.5		127	50.2	172	1230	1200	2320	876		741	1440	115		291	2160	83.8	791	994		126	15300		115	1280		102	1580												
IP 1670	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	10.5		98.5	<12	27.7	145	130	246	86.6		74.3	174	96.4		27.7	273	<10	76.7	26.3		101	1750		102	251		97.7	201												
IP 1735	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	19.3		97.5	26.1	46.3	29.6	<15	55.9	<24		<14	74.1	98.6		<23	22.4	130	<18	72.3	98.3		848	108	349	97.5	22.8	109													
IP 1737	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	<8		90.5	<12	<16	<14	<15	32	<24		<14	21.2	89.1		<23	<17	<10	<18	<9		91.8	<118		98.2	32.1	90.2	<15													
IP 1754	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	<8		117	21.3	49.2	224	211	318	162		115	256	106		66.5	343	12.6	129	49.3		121	2440		107	224	110	254													
IP 1754	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	243		104	302	1130	2020	5000	5870	6950		2040	2450	105		1460	2520	264	4560	398		99.1	39900		117	1070	97.7	3610													
IP 1754	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	<8		96.2	<12	<16	24.9	<15	76.6	<24		<14	142	95.3		<23	66.5	<10	<18	16.8		97.1	524		96.2	168	93	29.4													
IP 1756	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	51.9		108	58.4	188	727	963	1260	818		489	940	110		237	1140	126	634	304		108	9630		114	716	105	982													
IP 1756	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	33		114	20	72.2	458	496	795	343		263	474	113		119	798	33.4	272	49.3		114	5360		120	503	112	628													
IP 1756	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	157		97.6	<12	235	161	211	333	216		108	240	98.1		54.1	190	349	154	593		99	3950		109	746	95.8	208													
IP 1758	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	105		96.7	39.7	180	1270	1610	2340	1330		845	1430	101		405	1810	102	1040	115		97.9	14900		115	777	95.3	1490													
IP 1760	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	<8		100	<12	26.1	114	89.2	197	79.9		53.7	143	103		<23	164	16	60.2	106		104	1410		97.6	230	98.2	133													
IP 1760	1.00-	140818-45	13/08/2014	18/08/2014	03/09/2014	<8		90.8	<12	<16	<14	<15	<15	<24		<14	26.9	84.1		<23	<17	<10	<18	47.7		92.2	147		86.5	72.4	93.7	<15													
IP 1823	2.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	305		102	48.5	203	139	153	359	145		78	331	101		47.1	316	282	100	271		98.1	4030		106	812	101	437													
IP 1826	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		94.9	<12	21.9	64.3	65.3	105	70.7		32.4	62.1	95		<23	76.6	<10	45.1	27.8		95.3	718		98	77.5	94.5	68.9													
IP 1826	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		95.8	<12	<16	31.4	<15	39.6	<24		<14	24	92.7		<23	<17	<10	<18	<9		97.1	146		94.1	51.3	94.6	<15													
IP 1835	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	36.5		94.9	39.7	75.1	668	1110	1570	1280		558	826	97.7		289	763	35.9	907	84.6		95.2	9300		104	291	94.8	765													
IP 1835	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		93	<12	<16	<14	<15	<15	<24		<14	<10	86.5		<23	<17	<10	<18	15.2		94.7	<118		88.8	48.9	90.5	21													
IP 1836	1.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	10.9		95.2	14.9	30.6	29.6	<15	38.4	<24		<14	14.1	98		<23	<17	38.6	<18	35.4		94.7	308		104	41.2	94.6	54.8													
IP 1840	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		97.7	<12	<16	25.1	<15	27.4	<24		<14	28.9	92.6		<23	<17	<10	<18	<9		97.5	151		93.1	69.4	94.8	<15													
IP 1840	2.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		99.1	<12	<16	<14	<15	<15	<24		<14	<10	90.7		<23	<17	<10	<18	<9		101	<118		92	59.4	96.2	<15													
IP 1841	0.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	15		110	19.3	38.5	206	236	462	193		126	355	103		49.6	413	46.2	146	93.4		111	3070		115	308	109	364													
IP 1841	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	117		102	195	276	54.3	98.9	95.1	115		32.5	48.8	<10		65	174	104	2030	125		231	99.7		291	91															
IP 1842	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		98.3	<12	<16	20.3	<15	234	<24		<14	184	99.5		<23	31.7	<10	<18	24.7		97.1	851		103	288	94.5	67.7													
IP 1848	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	332		100	43.5	749	3230	2690	3330	1510		1360	3130	96.3		453	7720	294	1340	51.5		100	36600		104	4980	108	5390													
IP 1848	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	<8		110	<12	<16	<14	<15	<14	<10		<14	<10	121		<23	<17	<10	<18	<9		114	<118		203	<15	109.9														
IP 1848	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	540		101	22.8	396	27.2	<15	34	<24		<14	72.5	98.3		<23	54	730	<18	263		96.8	3440		109	1150	101	154													
IP 1905	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	11.4		96.2	<12	<16	39.4	32.6	58.9	30		<14	45.5	99.1		<23	26.3	<10	26.1	17		93.3	419		117	100	95.8	31.1													
IP 1905	1.60-	140806-8	04/08/2014	06/08/2014	17/08/2014	83.1		115	<12	75.1	<14	<15	<15	<24		<14	<10	103		<23	<17	248	<18	97.6		115	917		102	414	112	<15													
IP 1905	2.60-	140806-8	04/08/2014	06/08/2014	19/08/2014	359		101	<12	237	26.9	31.8	59.5	<24		<14	74.5	97.1		<23	59.3	522	<18	482		96.7	2900		108	958	98.8	94.2													
IP 1905	3.30-	140806-8	04/08/2014	06/08/2014	22/08/2014	774		112	64.2	261	51	<15	546	39.4		46	1350	100		88.2	285	1340	32.3	1910		109	11100		98.4	4170	108	162													
IP 1908	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	1910		88.6	402	2440	20300	26100	36100	15500		13900	22800	99.1		6220	20400	2760	14300	970		88.5	209000		105	6400	85.7	18500													
IP 1908	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		97.9	<12	<16	25.1	<15	103	<24		<14	126	91.9		<23	<17	<10	<18	11.1		96.8	506		95.1	241	96.8	<15													
IP 1909	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	54.7		93.8	77.8	155	382	1020	1050	1160		502	517	94.9		277	390	42.5	727	59.7		93.2	7320		120	215	92.4	697													
IP 1909	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	<8		117	<12	<16	25.3	<15	240	<24		20.9	119	115		<23	<17	<10	<18	18.4		116	617		117	90.6	115	102													
IP 1909	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	<8		115	<12	<16	24.6	<15	140	<24		18.6	132	112		<23	36.3	<10	<18	19.7		113	649		117	205	114	73													
IP 1911	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	<8		93	<12	<16	55.5	80.3	101	68.6		28.2	83.8	97		<23	96.1	<10	50																						

Monitor Phase 58

Excavate

Monitor Phase 58										Acenaphthene-d10 % recovery**										Acenaphthylene										Anthracene										Benz(a)anthracene										Benzo(a)pyrene										Benzo(b)fluoranthene										Benzo(g,h,i)perylene										Benzo(k)fluoranthene										Chrysene										Chrysene-d12 % recovery**										Dibenzo(a,h)anthracene										Fluoranthene										Fluorene										Indeno(1,2,3-cd)pyrene										Naphthalene										Naphthalene-d8 % recovery**										PAH, Total Detected USEPA 16 % recovery**										Perylene-d12 % recovery**										Phenanthrene										Phenanthrene-d10 % recovery**										Pyrene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														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Monitor Phase 58

Excavate

										Acenaphthene		Acenaphthene-d10 % recovery**	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Chrysene-d12 % recovery**	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Naphthalene-d8 % recovery**	PAH, Total Detected USEPA 16	Perylene-d12 % recovery**	Phenanthrene	Phenanthrene-d10 % recovery**	Pyrene
										Commercial		Deep 1%																				
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%
IP 2383	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	107	<8	107	<12	1280			876	1220	1910	1070	639	1420	102			226	2150	81.4	867	117	108	15000	109	1260	105	1880
IP 2383	0.90-	140905-19	02/09/2014	05/09/2014	20/09/2014		<8	102	<12	32.6			45.1	62.2	99.7	60.3	37.9	78.3	97.4			<23	116	21.2	46.8	22.1	102	873	102	132	101	118
IP 2384	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	39	39	98	20.2	84.9			448	693	904	558	417	578	92.7			144	960	78.7	454	173	99.7	7150	97	648	96.5	946
IP 2400	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	134	134	104	85.2	756			2660	2870	2880	1510	1210	2510	95			380	5030	303	1350	324	99.4	29600	104	3550	100	4080
IP 2400	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014		<8	101	<12	<16			<14	<15	<15	<24	<14	17.8	98.8			<23	<17	<10	<18	<9	96.8	<118	114	45.3	100	24.4
IP 2400	2.20-	140905-19	02/09/2014	05/09/2014	20/09/2014	368	104		135	281			32.4	56.3	88.3	<24	<14	105	101			<23	138	800	<18	565	97.2	3690	120	936	103	187
IP 2401	1.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	192	97.5		70.7	229			174	184	292	136	110	214	83.8			33	380	492	98.6	607	94.5	4100	93.5	496	93.6	392
IP 2401	2.00-	140908-1	03/09/2014	08/09/2014	23/09/2014	442	90.8		32.1	351			100	76.4	212	57.9	50.6	266	88.2			<23	243	1090	46.6	1030	92.4	6120	94.5	1840	90.8	276
IP 2402	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	15	98.6		16.2	88.7			133	156	274	128	85.5	163	97.1			28.5	287	105	91.8	144	97.3	2330	105	254	99.5	356
IP 2402	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	441	89.6		41.8	427			72	56.5	146	34.3	28.1	192	86.9			<23	148	1210	21.3	1220	86.2	6220	98.4	2000	87.3	188
IP 2402	2.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	984	112		<12	960			145	141	251	105	69.7	417	117			32.4	313	2620	67	3410	114	14200	126	4140	105	507
IP 2403	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	447	98.4		46	549			105	62	180	38.8	38.9	290	99.5			<23	208	1190	26.1	1230	98.2	7010	106	2290	93.8	307
IP 2404	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	748	100		<12	724			155	115	245	65.6	58.9	307	101			28.2	303	1840	47.3	1820	101	10100	109	3220	95.3	427
IP 2405	0.30-	140908-1	03/09/2014	08/09/2014	23/09/2014	344	104		358	1310			286	820	750	483	427	688	84.3			158	779	876	367	1310	97.5	12700	96	1520	106	2230
IP 2405	1.00-	140908-1	03/09/2014	08/09/2014	20/09/2014	247	95.5		31.2	276			96.2	73.9	116	39.7	28.6	146	96.7			<23	142	808	27.9	538	93.1	4070	110	1330	94.6	171
IP 2406	0.20-	140908-1	03/09/2014	08/09/2014	23/09/2014	500	94.3		419	778			246	473	500	516	194	295	86.3			134	452	1060	253	3100	93.4	10500	94.2	977	91.5	678
IP 2406	1.30-	140908-1	03/09/2014	08/09/2014	20/09/2014	1030	93.9		133	632			75.8	164	163	104	108	113	87.3			75.6	308	1620	89.9	2850	96.2	9900	98	2080	87.6	358
IP 2483	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	91.5	103		26.8	92.7			413	533	643	387	292	591	96.7			91.9	1360	141	315	238	102	7360	103	1100	101	1050
IP 2483	1.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	642	96.7		155	171			43.4	56.5	74.7	52.7	38.8	78	86.5			<23	95.9	813	46.1	8150	99.3	10900	88.3	337	86.7	131
IP 2483	2.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	169	96.6		64.8	115			16.4	<15	25.1	<24	<14	108	97.1			<23	53	427	<18	444	97.1	2010	96.4	543	92.9	41.1
IP 2500	0.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	11.3	93.8		<12	<16			95.8	130	311	129	78.9	157	98.6			33.5	183	<10	99.8	59.5	95.2	1630	104	188	94.2	150
IP 2500	1.00-	140905-19	02/09/2014	05/09/2014	19/09/2014	2180	133		571	691			234	427	582	292	244	323	109			103	629	3930	237	19800	127	33300	110	2340	118	776
IP 2500	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	378	103		213	153			<14	<15	27.4	<24	<14	<10	98.8			<23	35.1	735	<18	1070	101	3290	109	622	104	63.5
IP 2500	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	225	101		126	132			<14	<15	25.1	<24	<14	<10	98			<23	<17	489	<18	651	101	2280	107	572	102	58
IP 2766	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	79.7	103		21.2	84.7			669	1050	1660	887	514	876	97.8			253	1470	50.9	721	96.5	104	10600	107	975	103	1190
IP 2766	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	54.8	91.2		<12	71.2			49.7	45.9	236	39.4	28.6	335	84.4			29.3	114	400	32.3	258	91.2	2280	83.8	511	91.3	73.7
IP 2766	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	200	93.3		<12	203			<14	<15	200	<24	<14	266	83.2			<23	92	1350	<18	1150	93.1	5100	84.1	1590	91.4	49.8
IP 2766	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	431	111		<12	289			33.3	19.3	200	<24	20.5	325	92			<23	116	2600	19.4	3210	103	10200	92.9	2880	97.9	69.5
IP 2766	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	1170	103		<12	421			52.6	46.7	144	28.9	39.1	196	100			<23	282	2230	26.5	2540	109	10000	106	2600	103	245
IP 2767	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	23.7	102		<12	60.2			98.3	78	150	52.7	44.1	105	96.6			<23	157	49	41.6	91.2	102	1310	105	230	101	131
IP 2767	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	39.3	103		<12	49.3			213	190	329	166	113	319	99.8			54	316	68.4	124	135	106	2800	101	442	102	242
IP 2767	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	72.9	101		<12	79.6			<14	<15	27.4	<24	<14	22.1	94.3			<23	<17	285	<18	230	99.7	1040	98.1	298	99.6	21.7
IP 2767	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	80.7	95.4		<12	54.5			<14	<15	44	<24	<14	27.6	88.6			<23	<17	409	<18	150	95.6	1280	92.4	517	94.5	<15
IP 2767	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	18.8	103		<12	<16			<14	<15	26.8	<24	<14	<10	97.7			<23	<17	35.1	<18	29.2	105	167	99.1	57.2	103	<15
IP 2791	0.50-	140905-19	02/09/2014	05/09/2014	20/09/2014	29.8	104		23.8	63.4			316	468	706	440	230	395	99.8			113	487	68	322	1240	104	5820	109	506	103	408
IP 2791	1.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	12.7	102		<12	<16			28.8	39.7	63.8	42.8	20.9	45.6	99			<23	92	47.8	30.3	203	98.5	826	111	125	102	73.6
IP 2791	2.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	9.53	94.7		<12	35.5			<14	<15	55.3	<24	<14	36.9	93.5			<23	22.1	64.8	<18	60.6	96.4	431	98.7	118	96.2	28.2
IP 2791	3.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	<8	98.3		<12	<16			<14	<15	44	<24	<14	<10	92.8			<23	<17	<10	<18	<9	95.8	<118	100	29.4	98.4	<15
IP 2791	4.50-	140905-19	02/09/2014	05/09/2014	19/09/2014	10.5	113		<12	<16			<14	<15	35.8	<24	<14	22.8	103			<23	<17	<10	<18	19.4	117	121	101	32.5	112	&lt

Excavate

Commercial
Deep 1%

58

Commercial
Deep 1%

		Acenaphthene		Acenaphthene-d10 % recovery**		Acenaphthylene		Anthracene		Benz(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Chrysene-d12 % recovery**		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Naphthalene-d8 % recovery**		PAH, Total Detected Perylene-d12 USEPA 16 % recovery**		Phenanthrene		Phenanthrene-d10 % recovery**		Pyrene	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%		
IP1910	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		62.7		89.7	<12	50.8	130	128	203	102	62.8	160	84.7		84.7	<23	289	150	82	172	92.7	92.7	2010	90.5	165	85.5	253											
IP1910	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014		<8		94.9	<12	<16	30.3	<15	190	<24	<14	143	93		<23	30.9	<10	<18	18.9	96.3	675	92.9	262	95	<15													
IP1910	2.20-	140918-18	15/09/2014	18/09/2014	30/09/2014		<8		106	<12	<16	<14	<15	190	<24	<14	<10	97.5		<23	<17	<10	<18	<9	110	<118	91.4	55.1	103	<15													
IP1919	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		78.8		81	<60	<80	122	198	266	386	122	273	79.4		<115	301	85.9	220	111	80.8	2630	84.5	219	79	247													
IP1919	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		<8		96	<12	<16	<14	<15	<15	<24	<14	<10	103		<23	<17	<10	<18	<9	99	<118	98.3	<15	95	<15													
IP1919	2.40-	140918-18	15/09/2014	18/09/2014	30/09/2014		<8		94.3	<12	<16	<14	<15	58	<24	<14	26.4	101		<23	<17	<10	<18	<9	96.5	129	94.8	45	91.7	<15													
IP1993	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		13.3		94.9	18.3	66.4	265	273	474	164	281	88.2	55.3	584	<10	174	42	96.8	3500	93.6	424	94	445	94	445													
IP1993	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014		<8		97.9	<12	21	80.2	71.8	172	76.4	45.3	136	90.9		<23	155	<10	58.8	25.4	98.9	1170	92.8	208	94.2	118	118												
IP1993	2.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		58.6		96.7	<12	55.1	<14	<15	34	<24	<14	19.6	95		<23	29	120	<18	434	95.1	1080	102	305	94.3	22.2													
IP2018	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		94.2		98.2	227	413	2300	2700	3800	2530	1250	2090	94.3	541	4050	89.8	1750	129	97.8	26700	108	1520	97.2	3180	97	3180												
IP2018	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014		3510		103	<12	1900	320	209	306	121	1900	60.9	433	89.9		<23	469	3640	68.3	1510	92.7	16700	104	2890	97	1270												
IP2018	2.00-	140918-18	15/09/2014	18/09/2014	30/09/2014		539		102	34.5	427	82	59.2	152	52.4	40	131	101		<23	163	746	36.8	1110	98.7	5000	98.5	1300	105	135													
IP2019	0.30-	140918-18	15/09/2014	18/09/2014	30/09/2014		42.9		93.2	<12	43.6	144	131	186	86.7	58.3	236	90.1		<23	301	69.9	68.2	67	68	92.3	1970	93.2	277	91	267												
IP2019	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014		255		96.7	38.3	135	57.1	47.8	134	30.5	31.8	197	101		<23	159	342	25	1790	100	4160	100	767	93.6	150													
IP2019	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		389		99.6	<12	272	35.6	40.8	56.6	<24	16.5	24.8	101		<23	113	593	<18	2570	98.1	5330	110	1120	95.3	99.3													
IP2089	0.20-	140918-18	15/09/2014	18/09/2014	30/09/2014		49.7		97.4	<12	85.2	203	173	132	88.6	92.6	259	101		32.4	385	89.3	80.8	68.8	101	2420	101	353	93.9	330													
IP2089	1.00-	140918-18	15/09/2014	18/09/2014	30/09/2014		161		96	<12	88.5	91.3	88	150	48.7	50.9	184	99.7		<23	267	158	42.3	580	101	2610	99.9	496	91.8	203													
IP2089	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014		351		98.6	<12	258	39.4	37.7	87.8	<24	18	33	100		<23	142	645	<18	960	96.7	3960	107	1270	94.8	126													
IP2108	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		98.8		107	<12	169	324	386	488	240	148	292	109		59.7	292	140	164	84.2	100	3720	116	<15	110	835													
IP2108	1.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		296		102	<12	206	144	165	205	119	78.4	114	105		<23	266	528	76.5	230	100	3550	115	709	98.2	385													
IP2114	0.50-	140918-18	15/09/2014	18/09/2014	30/09/2014		<8		96.7	<12	<16	29.2	<15	43.5	<24	<14	38.9	89.4		<23	31.5	<10	<18	<9	97.8	231	95.8	65.1	95.3	22.8													
IP2114	1.50-	140918-18	15/09/2014	18/09/2014	29/09/2014		14.4		96.7	<12	31	<14	24.7	110	44.5	16.3	19.7	96.6		<23	46.7	53.8	29.3	52.1	94.6	710	103	225	93.7	42													
IP2114	2.00-	140918-18	15/09/2014	18/09/2014	30/09/2014		57.9		97	<12	144	163	183	473	206	87.9	259	103		66.2	282	157	147	197	95.5	3330	106	392	100	517													
IP2502	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		<8		102	<12	<16	42.2	32.9	79.6	<24	21.2	70.1	95.9		<23	119	<10	<18	12.7	105	568	96.3	102	104	88.1													
IP2502	0.70-	140918-12	15/09/2014	18/09/2014	30/09/2014		5750		116	<60	7650	1810	1930	2990	1300	950	3110	103		383	<85	14300	987	4440	98.1	78900	115	27100	111	6120													
IP2502	1.70-	140918-12	15/09/2014	18/09/2014	30/09/2014		375		98.7	38.2	234	72.5	80.4	158	51.4	49.3	147	96.1		<23	240	801	39.1	1990	95.2	5010	96.4	1040	96.4	219													
IP2503	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		<8		91.3	<12	<16	44.6	31.2	82.8	36.8	38.1	66.2	85.4		<23	67	<10	26.6	<9	93.9	536	90	89.3	88.8														
IP2503	1.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		275		94.4	17.5	539	43.5	<15	113	<24	<14	155	95.1		<23	50.5	742	<18	925	93.7	3860	95.5	1240	95	61.8													
IP2503	2.50-	140918-12	15/09/2014	18/09/2014	01/10/2014		655		105	28.8	368	44.8	19.1	119	<24	<14	174	101		<23	75.5	1380	<18	2170	101	7030	104	1900	101	93.1													
IP2580	0.50-	140918-12	15/09/2014	18/09/2014	01/10/2014		26.9		91.4	<12	39.4	104	102	224	95.2	50.3	139	95.2		31.6	181	40.3	67.8	76.5	94.2	1560	93.5	228	88.1	155													
IP2580	1.00-	140918-12	15/09/2014	18/09/2014	30/09/2014		<8		87.6	<12	<16	22	<15	<15	<24	<14	15.2	78.8		<23	<17	<10	<18	<9	89.7	<118	84	33.9	86.2	<15													
IP2580	2.00-	140918-12	15/09/2014	18/09/2014	30/09/2014		79.7		89.5	<12	35.1	<14	<15	54.1	<24	<14	61.3	83.4		<23	<17	178	<18	995	88.4	1590	89.2	191	88.1	<15													
IP2580	3.00-	140918-12	15/09/2014	18/09/2014	30/09/2014		<8		90.8	<12	<16	<14	<15	40.8	<24	<14	50	84.5		<23	<17	414	<18	861	88.9	1780	94.3	410	89.5	<15													
IP2580	4.00-	140918-12	15/09/2014	18/09/2014	30/09/2014		133		88	<12	66.3	<14	<15	30.9	<24	<14	39.1	82.3		<23	<17	410	<18	901	87.8	1990	90.6	390	87.4	20.4													
IP2677	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		25.9		82.3	<12	<16	18.6	<15	39.6	<24	<14	28.4	74.1		<23	<17	59.3	<18	166	88.7	425	76.9	87.9	76.4	<15													
IP2677	1.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		155		99.1	13.6	109	26.5	<15	34.1	<24	<14	51	100		<23	42.8	448	<18	431	96.9	1970	99.1	604	101	57.7													
IP2677	2.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		173		96.8	<12	78.3	30.1	<15	49.9	<24	<14	49.9	97.3		<23	30.7	421	<18	800	95.9	2100	99.5	418	97.2	48.6													
IP2677	3.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		<8		96.1	<12	75.1	<14	<15	40	<24	<14	<10	91.1		<23	29.5	456	<18	1260	96	2260	99.9	362	94.3	42.6													
IP2677	4.50-	140918-12	15/09/2014	18/09/2014	01/10/2014		21.4		96.7	<12	21.2	64.8	38.2	132	46.3	24.5	111	92		<23	94.5	36.4	28.5	78.6	99.7	1010	87.9	224	98.2	84.5													
IP2677	5.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		23.3		93.4	<12	26.4	97.7	72.7	170	60.5	51	113	92.7		<23	147	47.4	44.6	93.5	95.7	1340	91.1	263	94.6	127													
IP2697	0.50-	140918-12	15/09/2014	18/09/2014	30/09/2014		45		90.7	<12	85.4	415	293	536	239	177	421	94.8		97	616	51.2	182	79.3	94.7	4080	95.6	406	87.4	436													
IP2697	1.50-	140918-12	15/09/2014	18/09/2014	30																																						

Monitor Phase 58

Excavate

Monitor Phase 58										Acenaphthene-d10 % recovery**										Acenaphthylene										Anthracene										Benz(a)anthracene										Benzo(a)pyrene										Benzo(b)fluoranthene										Benzo(g,h,i)perylene										Benzo(k)fluoranthene										Chrysene										Chrysene-d12 % recovery**										Dibenzo(a,h)anthracene										Fluoranthene										Fluorene										Indeno(1,2,3-cd)pyrene										Naphthalene										Naphthalene-d8 % recovery**										PAH, Total Detected USEPA 16 % recovery**										Perylene-d12 % recovery**										Phenanthrene										Phenanthrene-d10 % recovery**										Pyrene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Excavate										Commercial Deep 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Excavate

Commercial
Deep 1%

Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg		
IP 2387	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	102	<12	<16	<14	<15	<15	<24	<14	<10	89.8	<23	<17	<10	<18	<9	103	<118	89.2	20.2	99.2
IP 2388	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	10.2	93.1		<12	<16	149	181	323	<24	101	208	89.3	40.8	265	11.9	116	17.4	94	1940	95	147	94.5
IP 2388	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014		<8	91.3	<12	<16	<14	<15	31.6	<24	<14	16	83.5	<23	<17	<10	<18	<9	95.6	<118	81.7	24.2	89.7
IP 2388	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	14.5	93.9		<12	58.9	428	412	963	445	300	529	90.9	135	711	17.7	364	13.2	98.2	5160	93.6	228	93.4
IP 2390	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014		<8	96.9	<12	<16	53.1	78.6	179	86.4	47.8	70.7	88.2	<23	84.3	<10	58.2	13.3	101	822	94.5	61	94.2
IP 2390	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014		<8	101	<12	<16	<14	<15	38.7	<24	<14	12.6	90.4	<23	<17	<10	<18	<9	101	<118	100	19.7	99.5
IP 2392	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	17.7	107		<12	55	383	394	650	325	251	403	97.1	90.1	680	15.4	255	16.1	106	4310	101	258	104
IP 2486	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014	410	96.8	167	530	2390	2230	3880	1480	1240	2510	90.3		550	4570	557	1370	216	99.4	27500	96.5	2370	3080
IP 2486	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	21.4	97.4		<12	29.1	223	181	420	96.9	115	289	93.3	40.3	396	27.7	88.2	<9	97.2	2450	99.9	233	98.1
IP 2486	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014		<8	91.2	<12	<16	<14	<15	29.7	<24	<14	13.8	85.7	<23	<17	<10	<18	18.7	92.7	120	89.2	57.6	91.5
IP 2486	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014		<8	94.1	<12	<16	<14	<15	39.3	<24	<14	21.1	96.8	<23	<17	<10	<18	<9	93.3	<118	104	<15	94.3
IP 2488	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	61.3	98.8	24.3	105	56.6	52.3	136	51.6	105	29.8	70.9	99.4	<23	75.1	89.8	33.3	98.8	97.5	1170	106	128	99.5
IP 2488	1.10	141003-69	29/09/2014	03/10/2014	19/10/2014		<8	100	<12	<16	<14	<15	29.5	<24	<14	22.4	87.6	<23	<17	<10	<18	16.8	99.2	<118	95.3	45.8	98.2
IP 2489	0.50	141003-69	29/09/2014	03/10/2014	20/10/2014	11.6	89.6	<12	24.1	<14	<15	23.5	<24	<14	<10	81.9		<23	<17	78.5	<18	27.6	88.4	345	88.8	161	89.3
IP 2489	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014		<8	97.3	<12	<16	<14	<15	67.9	<24	<14	28.3	94.1	<23	22.1	<10	<18	<9	99.1	226	98.5	52	98.5
IP 2489	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014	84.2	103		<12	212	58.2	68.6	171	106	40.3	141	103	<23	121	331	39.1	83.7	101	2310	110	680	104
IP 2490	0.50	141003-69	29/09/2014	03/10/2014	21/10/2014	244	100	25.9	104	<14	<15	22.8	<24	<14	<10	92.5		<23	21.6	470	<18	199	97.9	1730	101	621	101
IP 2490	1.50	141003-69	29/09/2014	03/10/2014	20/10/2014	28.7	99.2		<12	19.5	<14	<15	86.9	<24	<14	33.5	93	<23	<17	52.3	<18	21.9	100	351	93.5	91.1	100
IP 2490	2.50	141003-69	29/09/2014	03/10/2014	20/10/2014		<8	98.7	<12	<16	<14	<15	59.9	<24	<14	26.4	86.5	<23	<17	<10	<18	<9	102	122	84.6	35.8	98.4
IP 2491	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014		<8	102	118	<16	<14	<15	<15	<24	<14	<10	99.5	<23	<17	<10	<18	23.8	102	142	108	<15	101
IP 2491	1.50	141003-69	29/09/2014	03/10/2014	19/10/2014	91.2	103		<12	199	<14	<15	51.1	<24	<14	14	94.7	<23	26.2	290	<18	156	100	1280	95.7	428	104
IP 2491	2.50	141003-69	29/09/2014	03/10/2014	19/10/2014		<8	97.4	<12	<16	<14	<15	68.5	<24	<14	21.5	86.8	<23	<17	<10	<18	14.1	99.3	144	86.4	40.4	98.6
IP 2492	0.20	141003-69	29/09/2014	03/10/2014	21/10/2014		<8	103	241	<16	67.3	125	220	122	72.8	131	88.3	<23	255	<10	91.3	145	102	1940	93.1	277	97.3
IP 2492	1.00	141003-69	29/09/2014	03/10/2014	21/10/2014	9.99	98.2		<12	<16	<14	<15	31	<24	<14	<10	91.8	<23	<17	<10	<18	58.8	101	123	100	23.1	97.3
IP 2492	2.00	141003-69	29/09/2014	03/10/2014	20/10/2014		<8	95.7	<12	<16	<14	<15	37.1	<24	<14	36.7	92.9	<23	<17	<10	<18	<9	96.2	174	94.8	83.5	90.6
IP 2493	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	387	103		<12	390	<14	<15	42.3	<24	<14	35.3	99.2	<23	45.6	585	<18	75.5	102	2770	99.3	1150	103
IP 2493	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	12.3	94.1		<12	<16	<14	<15	34.2	<24	<14	14	86.9	<23	<17	19	<18	<9	93.5	139	87	59.9	93.2
IP 2493	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	102	<12	<16	<14	<15	61.6	<24	<14	43.3	91.8	<23	<17	<10	<18	<9	101	198	90.9	93.3	100
IP 2494	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	103	<12	<16	<14	<15	33.6	<24	<14	22	98.8	<23	<17	<10	<18	<9	103	<118	99.7	37.9	103
IP 2494	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	60.2	103		<12	163	92.5	69.1	104	35.6	34.8	107	105	<23	139	64.8	33	17.4	108	1220	98	103	104
IP 2494	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	95.1	<12	<16	<14	<15	<15	<24	<14	<10	98.4	<23	<17	<10	<18	<9	90.5	<118	97.4	<15	92.4
IP 2496	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	33.8	103		<12	32.3	<14	<15	98.9	<24	<14	92.7	99.7	<23	23.2	154	<18	295	108	1090	98.8	335	103
IP 2496	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	90.9	<12	<16	<14	<15	35.7	<24	<14	32.1	97.1	<23	<17	36.4	<18	27.9	92.2	225	98.4	93	84.7
IP 2496	2.50	141001-76	26/09/2014	01/10/2014	18/10/2014		<8	108	<12	<16	<14	<15	<15	<24	<14	23.2	97.4	<23	<17	17.5	<18	31.1	107	130	100	57.9	107
IP 2592	0.40	141001-76	26/09/2014	01/10/2014	18/10/2014	31.9	94.6	14.6	53.6	439	593	868	494	305	461	95.4	136	656	30.8	392	24	96.7	5300	107	277	95.5	
IP 2779	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	25.2	99.7		<12	<16	<14	<15	35.1	<24	<14	20.6	94.6	<23	37.4	34.1	<18	395	108	619	86.1	40.5	98.1
IP 2779	0.50	141001-76	26/09/2014	01/10/2014	05/11/2014	168	102	118	405	871	1180	1660	792	538	997	100	106	285	1390	263	750	314	106	12400	91.7	1030	100
IP 2779	1.00	141001-76	26/09/2014	01/10/2014	17/10/2014	25.9	107	<12	60.3	<14	<15	51.7	<24	<14	49.4	96.4	<23	31.7	89	<18	121	106	573	104	106	105	
IP 2779	1.50	141001-76	26/09/2014	01/10/2014	17/10/2014	47.9	104	32.7	125	257	376	453	285	154	277	96.9	85.9	395	86	218	68	103	3660	107	329	103	
IP 2779	2.00	141001-76	26/09/2014	01/10/2014	17/10/2014	9.89	106	<12	35.4	<14	<15	40.6	<24	<14	21.4	98.6	<23	<17	78.9	<18	40.1	105	407	102	158	105	
IP 2779	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	38.2	105	40.3	83.3	221	282	341	226	147	211	97.1	62.4	336	62.1	160	81.6	104	2970	106	259	104	
IP 2865	1.00	141001-76	26/09/2014	01/10/2014	05/11/2014	756	98.9	<12	822	794	635	477	259	104	1150	102	167	473	939	120	461	97.1	10300	111	1690	97.6	
IP 2865	2.50	141001-76	26/09/2014	01/10/2014	17/10/2014	17.3	106	<12	26.9	<14	<15	72.9	<24	<14	56.4	95.2	<23	27.7	38.9	<18	<9	105	374	99	134	104	
IP 2866	0.20	141001-76	26/09/2014	01/10/2014	17/10/2014	16.8	100	<12	84.1	95.8	140	174	46	98.1	98.8		37.1	114	62.5	82	98.2	99.4	1600	98.7	101	243	
IP 2866	3.00	141001-76	26/09/2014	01/10/2014	17/10/2014		<8	93.9	<12	<16	<14	<15	<15	<24	<14	<10	85.6	<23	<17	<10	<18	<9	94.2	<118	86	<15	92.4
IP 2869	0.50	141001-76	26/09/2014	01/10/2014	17/10/2014	8.97	96.7	13.7	31.4																		

Excavate

Excavate

Monitor Phase 58

Excavate

Monitor Phase 58		Acenaphthene-d10 % recovery**		Acenaphthylene		Anthracene		Benz(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Chrysene-d12 % recovery**		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Naphthalene-d8 % recovery**		PAH, Total Detected USEPA 16 % recovery**		Perylene-d12 % recovery**		Phenanthrene		Phenanthrene-d10 % recovery**		Pyrene			
Excavate		Commercial Deep 1%																																											
Sample Description	Sample Depth	SDG ID	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	%	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%				
IP2005	0.50	141121-129	18/11/2014	21/11/2014	12/12/2014		451	98.7		54.7	341	<14		47.4	<24	<14	14	94.8		µg/kg		<23	24.1	428	<18	1000		98.4	3320	92.4	776		95.5	183											
IP2005	1.50	141121-129	18/11/2014	21/11/2014	12/12/2014		315	97.2		24.4	167	<15		37.1	<24	<14	48.5	94.4		µg/kg		<23	25.9	249	<18	687		97.7	2200	94.3	548		94.2	81.9											
IP2005	2.50	141121-129	18/11/2014	21/11/2014	12/12/2014		67.2	104		34.9	128	432		631	299	265	498	105		µg/kg		<23	825	60.8	<16	31.6		104	5140	105	418		101	677											
IP2006	0.50	141121-129	18/11/2014	21/11/2014	11/12/2014		<8	99.5		<12	<16	<14		<15	<24	<14	<10	93.7		µg/kg		<23	<17	<10	<18	<9	102	<118	90.5	25.2	97.2	<15	<15	<15											
IP2006	1.50	141121-129	18/11/2014	21/11/2014	12/12/2014		92.5	97.6		<12	191	540		939	420	363	741	96.4		µg/kg		128	1330	96.7	<18	32.1	100	7480	97.7	757	95.9	993													
IP2007	0.50	141121-129	18/11/2014	21/11/2014	13/12/2014		<8	118		<12	<16	<14		<15	<24	<14	<10	113		µg/kg		<23	<17	<10	<18	84.3	122	<118	118	<15	115	<15	<15	<15	<15										
IP2007	1.50	141121-129	18/11/2014	21/11/2014	12/12/2014		<8	92.2		<12	<16	<14		<15	<24	<14	<10	82.1		µg/kg		<23	<17	<10	<18	<9	95.8	<118	83.8	<15	88.5	<15	<15	<15											
IP2007	2.50	141121-129	18/11/2014	21/11/2014	11/12/2014		<8	97		<12	<16	<14		<15	<24	<14	<10	92		µg/kg		<23	<17	<10	<18	<9	99.2	<118	87.6	34.9	94.1	<15	<15	<15											
IP 1924	0.80	140828-48	21/08/2014	28/08/2014	10/09/2014		<8	94		<12	213	<14		57.2	<24	<14	67.9	94.3		µg/kg		<23	31.6	152	<18	14.2	93.2	857	98.9	266	94	55.2													
IP 1924	2.00	140828-48	21/08/2014	28/08/2014	10/09/2014		<8	100		<12	<16	<14		45	<24	<14	53.8	94.4		µg/kg		<23	<17	<10	<18	<9	102	201	94.3	102	99.4	<15	<15	<15											
IP 1843	0.50	140828-48	21/08/2014	28/08/2014	10/09/2014		<8	97.6		<12	62.8	103		205	146	70.4	96.5	98.1		µg/kg		<23	108	<10	88.6	12.8	94.5	1270	109	68.9	95	194													
IP 2203	0.50	140828-42	22/08/2014	28/08/2014	08/09/2014		68.3	112		78.3	139	566		1030	1720	623	1190	118		µg/kg		227	2040	111	854	147	115	13500	126	1380	112	1810													
IP 2678	0.50	140828-42	22/08/2014	28/08/2014	08/09/2014		16.6	94.3		<12	62.8	235		204	331	135	166	324	102		µg/kg		39.7	417	74.1	108	<9	96.7	2720	95.2	223	92.8	379												
IP 2678	1.50	140828-42	22/08/2014	28/08/2014	07/09/2014		<8	99.6		<12	<16	<14		<15	<24	<14	<10	107		µg/kg		<23	<17	22.2	<18	31.6	100	195	120	141	98.6	<15	<15	<15											
IP2096	0.30	141007-35	02/10/2014	07/10/2014	23/10/2014		<8	96.3		<12	<16	26.9		16.7	<24	<14	39	93.5		µg/kg		<23	26.5	<10	<18	<9	98.3	227	91.6	53.9	92.9	18.7													
IP2096	1.20	141007-35	02/10/2014	07/10/2014	24/10/2014		226	105		31.6	297	<14		<15	<24	<14	13.2	94.5		µg/kg		<23	24	287	<18	138	104	1710	88.9	570	102	93.6													
IP2096	2.20	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	103		<12	120	<14		<15	<24	<14	<10	92.7		µg/kg		<23	<17	<10	<18	53.5	103	387	92.5	151	103	35.7													
IP2096	3.20	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	118		<12	<16	<14		<15	<24	<14	47.7	103		µg/kg		<23	<17	<10	<18	<9	118	255	95.2	95.4	113	43.8													
IP2097	0.50	141007-35	02/10/2014	07/10/2014	24/10/2014		14.1	98.3		<12	27.3	119		138	262	116	72.1	168	92.9		µg/kg		34.4	182	37.3	86.7	55.8	98.6	1690	95.4	205	98.3	168												
IP2097	1.50	141007-35	02/10/2014	07/10/2014	22/10/2014		<8	97.9		<12	<16	27.9		<15	<24	<14	37.8	90		µg/kg		<23	20.6	<10	<18	11.6	98.1	339	92.6	63.3	98.3	81.8													
IP2097	2.50	141007-35	02/10/2014	07/10/2014	23/10/2014		<8	82.2		<12	<16	<14		<15	<24	<14	<10	86		µg/kg		<23	<17	<10	<18	<9	85.7	<118	91	21.4	80.2	<15	<15	<15											
IP2098	0.40	141007-35	02/10/2014	07/10/2014	23/10/2014		11.4	97.8		<12	29.4	148		186	286	174	102	187	98.2		µg/kg		49.8	181	34.9	125	80.7	100	1980	99.4	218	95.4	170												
IP2098	1.80	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	103		<12	<16	17.4		<15	<24	<14	<10	91.9		µg/kg		<23	<17	<10	<18	<9	104	139	89.1	<15	101	66.6													
IP2098	2.80	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	99.6		<12	<16	<14		<15	<24	<14	22.2	89.9		µg/kg		<23	<17	<10	<18	<9	101	121	87.8	28	98.1	22.7													
IP2099	0.40	141007-35	02/10/2014	07/10/2014	23/10/2014		87.1	95		35	120	1150		1690	2010	1610	810	1380	96.7		µg/kg		443	1480	71.3	1230	25.4	99.7	14000	107	536	92.4	1300												
IP2099	1.40	141007-35	02/10/2014	07/10/2014	24/10/2014		9.75	99.2		<12	<16	86.9		87.3	212	81.5	47.7	102	94.1		µg/kg		<23	112	<10	55.4	<9	101	1090	96.7	96.3	98.7	197												
IP2099	2.40	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	93.8		<12	<16	<14		<15	<24	<14	22.2	74.1		µg/kg		<23	<17	<10	<18	<9	97.9	131	73.4	43.8	88.6	26													
IP2100	0.40	141007-35	02/10/2014	07/10/2014	23/10/2014		<8	91		<12	<16	35.5		40.4	39.2	32.4	25.7	52.9	89.2		µg/kg		<23	43.3	<10	29	<9	93.2	452	89.2	63	87.5	42.7												
IP2100	1.10	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	108		<12	<16	<14		<15	<24	<14	18.4	96.2		µg/kg		<23	<17	<10	<18	<9	108	<118	95	<15	105	<15	<15	<15											
IP2100	1.70	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	106		<12	<16	34.9		31.5	66.6	34.1	18.7	27.3	95.7		µg/kg		<23	34.9	<10	<18	<9	105	319	99.3	23	103	47.8												
IP2100	2.90	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	106		<12	<16	<14		<15	<24	<14	23.9	93.2		µg/kg		<23	<17	<10	<18	<9	106	192	89.6	68.7	104	58.9													
IP2104	0.40	141007-35	02/10/2014	07/10/2014	23/10/2014		94.8	85.9		30.7	146	1060		1370	1650	1220	706	1250	89.8		µg/kg		361	1370	86.2	950	57	90.3	12100	99	599	84.2	1150												
IP2104	1.40	141007-35	02/10/2014	07/10/2014	23/10/2014		<8	94.6		<12	<16	26.7		47.1	105	41	26.8	108	101		µg/kg		919	63.3	<10	28.2	<9	98.8	639	109	107	93.1	85.4												
IP2104	2.00	141007-35	02/10/2014	07/10/2014	26/10/2014		21500	123		1290	51200	5760		4400	4420	3400	2470	6400	104		µg/kg		919	17900	22500	2220	4550	110	231000	98.9	61200	114	21000												
IP2193	0.50	141007-35	02/10/2014	07/10/2014	24/10/2014		16.5	101		15.2	21.6	126		191	295	240	123	226	93.3		µg/kg		56.1	312	13.7	163	15.6	102	2250	91.7	179	99.6	254												
IP2193	1.50	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	101		<12	<16	47.4		62.7	152	89.9	52.6	102	92.8		µg/kg		<23	126	<10	56.7	<9	103	946	90.6	105	98.9	151												
IP2193	2.50	141007-35	02/10/2014	07/10/2014	24/10/2014		<8	102		<12	<16	<14		<15	<24	<14	39.1	89.1		µg/kg		<23	<17	<10	<18	<9	102	232	84	84.8	98.5	22													
TPE1007	0.50	141007-35	02/10/2014	07/10/2014	23/10/2014		53.7	97.3		16.9	49.2	474		702	1100	648	359	532	96.7		µg/kg																								

100

Commercial
Deep 1%

58

Commercial
Deep 1%

Acenaphthene-d10 % recovery**						Acenaphthylene		Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Chrysene-d12 % recovery**	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene-d8 % recovery**	PAH, Total Detected Perylene-d12 USEPA 16 % recovery**		Phenanthrene-d10 % recovery**	Phenanthrene-d10 % recovery**	Pyrene					
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg				
IP 2775	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014		1150	88.8	<12	1420		615	685	961	471	322	724	82.3		150	1260	1680	323	1070	86.2	15200	99.3	2810	88.2	1600
IP 2775	1.50-	141001-77	25/09/2014	01/10/2014	18/10/2014		<8	99.1	<12	253		310	522	708	541	240	<10	101		119	362	<10	328	118	99.4	4600	120	269	97.8	825
IP 2775	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	99	<12	<16		44.4	<15	44.4	<14	<10	96		<23	<17	<10	<18	<9	101	<118	105	<15	97	<15	
IP 2777	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014		595.5	116	64.2	227		807	800	1090	578	431	887	108		175	1400	124	447	149	114	9390	117	833	117	1330
IP 2777	2.00-	141001-77	25/09/2014	01/10/2014	17/10/2014		175	93.7	<12	256		22.2	<15	26.7	<24	<14	39	93.4		<23	53.5	470	<18	60.6	92.3	1780	98.1	589	92.4	85.6
IP 2778	0.50-	141001-77	25/09/2014	01/10/2014	12/11/2014		274	112	<12	746		1010	1100	1710	863	464	1350	93.3		272	1520	581	652	444	114	16000	99	2740	104	2260
IP 2778	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		28.6	105	18.7	90.9		227	264	370	201	115	257	97		59.9	338	55.6	141	64.6	104	2900	104	255	104	411
IP 2780	0.50-	141001-77	25/09/2014	01/10/2014	13/11/2014		120	110	91.8	266		680	673	887	445	290	837	101		150	1240	231	344	189	111	8790	110	912	110	1430
IP 2780	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	97.4	<12	<16		22.2	18.9	38.7	<14	25	92.9		<23	29.7	<10	<18	<9	96.5	196	97.4	30.7	96.3	31.1	
IP 2864	1.00-	141001-77	25/09/2014	01/10/2014	12/11/2014		369	112	134	807		1220	1050	1590	695	607	1360	112		294	1940	628	619	353	117	15800	101	1960	111	2200
IP 2864	2.00-	141001-77	25/09/2014	01/10/2014	18/10/2014		<8	101	<12	92.9		464	576	659	380	247	438	98.6		105	538	<10	315	<9	101	4550	109	200	98	541
IP 2867	0.50-	141001-77	25/09/2014	01/10/2014	18/10/2014		16.6	94.3	<12	24.6		84.5	91.9	159	67.8	49.8	111	96		30.7	99.3	27.3	60.2	55.3	100	1150	88.1	169	94.6	104
IP 2867	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		135	99.5	<12	200		43.1	22.5	44	<24	<14	53.9	93.2		<23	49.1	258	<18	53	98.6	1410	97.7	376	99.1	173
TPE 1185	0.50-	141001-77	25/09/2014	01/10/2014	12/11/2014		47.6	99	29.5	111		723	744	1320	633	384	788	98.3		195	1200	57.8	495	66.1	99.4	8330	98.6	548	101	982
TPE 1185	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	104	<12	<16		<14	17.5	48.9	<24	<14	29.8	92.5		<23	40.8	<10	<18	<9	104	239	97.8	62.8	101	399
TPE 1185	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	105	<12	<16		17.4	<15	34.3	<24	<14	18.4	92.5		<23	19.4	<10	<18	<9	106	139	94.7	49.2	105	<15
TPE 1186	0.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	105	<12	<16		19	30.2	44.9	60.6	17.8	30.7	95.8		<23	24.4	<10	38.4	<9	103	313	102	26	102	20.6
TPE 1186	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		48.3	102	<12	129		19.4	<15	25.5	<24	<14	26.1	96.1		<23	<17	61.1	<18	38.6	102	639	105	221	101	70.5
TPE 1186	2.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	95.8	<12	<16		<14	<15	<15	<24	<14	<10	87.4		<23	<17	<10	<18	<9	96.1	<118	91.5	<15	92.6	<15
TPE 1187	0.20-	141001-77	25/09/2014	01/10/2014	12/11/2014		<8	86.6	<12	21.2		77.3	70.9	142	83.9	45.2	119	83.5		32.4	101	27.6	66.1	34	89.7	1010	90.1	97.2	80.3	96.8
TPE 1187	0.60-	141001-77	25/09/2014	01/10/2014	17/10/2014		18.8	94.5	<12	26.9		<14	<15	64.4	<24	<14	80.6	91.4		<23	22.2	29.8	<18	31.8	96.6	421	88	146	96.2	<15
TPE 1268	0.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		282	103	<12	482		439	339	545	221	201	538	102		75.5	1030	568	187	334	107	7500	93.5	1220	102	1040
TPE 1268	1.50-	141001-77	25/09/2014	01/10/2014	17/10/2014		<8	97.3	<12	<16		63	84.7	123	74.8	45.5	57.3	93.8		<23	54.3	<10	54.9	<9	98	653	103	33	95.8	62.9
TPE 1268	2.50-	141001-77	25/09/2014	01/10/2014	18/10/2014		<8	101	<12	<16		<14	<15	86.1	<24	<14	<10	94.8		<23	30.6	<10	<18	<9	102	<118	101	<15	99	<15
IP2016	0.50-	140807-37		12/08/2014	27/08/2014		<8	88.5	<12	39.2		18.7	<15	45.3	<24	<14	66.1	89.5		<23	60.8	78.8	<18	127	88.8	694	94.7	199	87.8	60
IP 2202	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014		58.4	101	<12	92.3		279	215	344	128	118	348	97.9		34.1	690	121	101	64.6	101	3600	103	442	103	561
IP 2202	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014		66.7	115	56.4	220		596	747	942	107	169	1180	191		103	1690	191	533	147	113	8690	114	814	112	1150
IP 2674	0.50-	140803-11	31/08/2014	03/08/2014	19/08/2014		52.4	114	<12	132		42.8	55.4	93.2	117	35.3	93.8	100		<23	117	151	41.8	131	110	1460	97.9	298	111	157
TPE 0758	0.50-	140808-10	06/08/2014	08/08/2014	10/12/2014		87.3	119	67.9	331		3190	2440	3710	1390	1300	2660	107		593	3810	56.6	1300	366	119	25900	106	1890	113	2680
TPE 910	0.30-	140818-45	13/08/2014	18/08/2014	10/12/2014		<8	97.6	<12	<16		89.8	129	211	145	95.6	139	94.5		117	82.5	97.9	1490	100	146	98.4	100	146	98.4	130
TPE 910	1.00-	140818-45	13/08/2014	18/08/2014	10/12/2014		<8	102	<12	<16		25.8	<15	26.9	<24	<14	19.9	99		<23	<17	<10	<18	<9	101	139	109	47.7	102	19
TPE 910	2.00-	140818-45	13/08/2014	18/08/2014	10/12/2014		45.2	96.2	<12	42.5		21.6	<15	31.5	<24	<14	29.5	105		<23	<17	96.1	<18	185	97.4	722	117	251	103	19.8
TPE825	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015		30.4	94	81.7	267		629	621	1040	478	402	676	92.5		153	1140	42.9	405	80.8	96	7460	95	429	90.4	982
TPE825	1.50-	141121-118	17/11/2014	21/11/2014	11/12/2014		35.7	108	57.2	166		766	926	1720	655	500	1040	106		198	1950	80.1	610	172	106	11500	108	1300	107	1360
TPE825	2.50-	141121-118	17/11/2014	21/11/2014	11/12/2014		228	96.6	<12	35.5		<14	<15	20.9	<24	<14	16.5	91.7		<23	32.7	262	<18	65.1	97.5	836	85.9	157	91.8	20.6
TPE826	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015		9.8	78.7	<12	26.4		120	123	184	103	79.3	148	72		34.2	230	17.3	103	43.7	86.4	1600	75	115	75.1	202
TPE826	1.50-	141121-118	17/11/2014	21/11/2014	12/12/2014		133	103	75.1	911		2920	1040	1490	278	626	2780	108		106	5270	221	271	265	105	21800	114	380	102	5080
TPE922	0.50-	141121-118	17/11/2014	21/11/2014	02/02/2015		<8	95	<12	<16		21.1	<15	53.8	<24	<14	28.6	88.6		<23	<17	<10	<18	<41	99.4	211	92.9	32.8	94.3	33.9
TPE922	1.50-	141121-118	17/11/2014	21/11/2014	11/12/2014		15.2	111	<12	27.6		<14	<15	64.6	<24	<14	41.2	117		<23	31.4	30	<18	19.2	113	393	116	107	113	57.1
TPE923	1.00-	141121-118	17/11/2014	21/11/2014	11/12/2014		<8	99.9	<12	<16		<14	<15	148	<24	<14	168	96.9		<23	27.4	<10	<18	35.5	100	735	94.6	270	99.3	86.2
TPE923	2.00-	141121-118	17/11/2014	21/11/2014	12/12/2014		<8	94.6	<12	<16		<14	<15	27.4	<24	<14	16.1	96.2		<23	<17	<10	<18	12.4	96.1	<118	91.7	39.3	94.9	<15
TP7038	0.50-	140627-104	25/06/2014	27/06/2014	10/07/2014		890	87.3	<12	752		873	1370	1940	1130	754	1090	78.1		280	1640	1410	895	817	90	18000	91.9	2640	82.1	1500
TP7038	1.00-	140627-104	25/06/2014	27/06/2014	10																									

Monitor Phase 58

Excavate

Commercial Deep 1%	Acenaphthene- d10 % recovery**																			Naphthalene- d8 % recovery**		PAH, Total Detected USEPA 16		Perylene-d12 % recovery**		Phenanthrene- d10 % recovery**		Pyrene
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Chrysene- d12 % recovery**	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	recovery**	%	recovery**	%	recovery**	%							
ate Complete	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	%	µg/kg	%	µg/kg							
6/05/2015	<8	98	<12	<16	51.1	33.9	65.1	40.9	17.6	50.4	92.2	<23	60.9	<10	29.3	23.8	98.1	500	90.7	81.6	101	45.1						
6/05/2015	232	96.6	38.6	227	110	97.5	240	66	58.5	253	97.7	28	190	480	52.1	132	95	3330	104	920	98.2	201						
6/05/2015	807	112	<12	464	<14	19.4	37.2	<24	<14	54.5	116	<23	57.7	1040	<18	280	110	4070	121	1130	116	178						
6/05/2015	<8	97.9	<12	24.5	<14	<15	<15	<24	<14	11.2	96.5	<23	<17	49.4	<18	<9	110	164	87.5	78.6	100	<15						
6/05/2015	152	96.8	15.2	141	68.8	46.2	94.4	30	29.6	104	93.8	<23	107	266	23.8	852	94.9	2510	103	473	97.5	107						
6/05/2015	13.5	94.4	<12	<16	<14	<15	30.3	<24	<14	37.9	88.9	<23	<17	20.2	<18	420	94.3	622	93	101	97.6	<15						
6/05/2015	<8	95.5	<12	<16	<14	<15	<15	<24	<14	23.6	91.5	<23	<17	38	<18	174	95.1	319	94.6	83.8	97	<15						
2/04/2015	67.5	102	44.5	216	354	412	483	347	172	429	107	96.1	633	199	249	172	104	5120	115	650	103	598						
2/04/2015	58.9	97.1	52	99.1	459	490	538	454	225	458	96.2	92.9	709	64	320	112	98.3	5110	106	337	93.3	641						
2/04/2015	<8	93.7	<12	<16	<14	<15	<15	<24	<14	<10	86.2	<23	<17	<10	<18	<9	96.5	<118	84.4	32.7	91.5	<15						
2/04/2015	<8	96.1	<12	<16	<14	<15	<15	<24	<14	<10	87.8	<23	<17	<10	<18	<9	97.6	<118	90.4	36.8	91.4	<15						
2/04/2015	294	97.1	<12	247	47	127	176	153	66.5	66.9	98.1	31.7	110	189	110	300	97.3	2590	102	296	97.6	376						
2/04/2015	1520	103	<12	1460	46.2	44.1	75.3	34.6	21.6	84.4	101	<23	151	2080	28.1	580	102	11900	104	5530	96.5	281						
2/04/2015	494	96.3	<12	1430	<14	<15	21.7	<24	<14	<10	97.9	<23	56.2	745	<18	197	97.9	6770	103	3680	93.4	149						
2/04/2015	28.4	94.7	<12	42.1	<14	<15	17.7	<24	<14	<10	89.6	<23	<17	37.7	<18	<9	98	256	94.6	112	90.7	18.2						
2/04/2015	228	97.3	<12	391	<14	<15	<15	<24	<14	<10	94.5	<23	20.5	258	<18	<9	98.4	1800	96.6	859	93.6	47.8						
2/04/2015	20.9	96.5	<12	28.3	82.6	83.8	155	64.3	49.1	112	96.7	<23	132	30.1	49.6	54.6	98	1180	103	207	94.3	113						
2/04/2015	13.4	93.5	<12	22	30.9	25.5	46.9	<24	<14	41.3	87.1	<23	58.8	18.4	<18	28.8	95.5	434	89.2	97.6	89.5	50.3						
2/04/2015	<8	94.6	<12	<16	<14	17.9	24.8	<24	<14	19.3	86.1	<23	31.6	<10	<18	14.6	97.2	186	87.5	48.5	90.6	29.2						
2/04/2015	<8	93.3	<12	<16	<14	<15	<15	<24	<14	12.3	89.3	<23	<17	<10	<18	<9	97.2	<118	90.4	31.5	90.9	<15						
2/04/2015	<8	95.5	<12	<16	<14	<15	<15	<24	<14	<10	88.4	<23	<17	<10	<18	<9	97.5	<118	91.9	<15	91	<15						
2/04/2015	<8	96.6	<12	<16	<14	<15	<15	<24	<14	<10	91	<23	<17	<10	<18	<9	98	<118	96.4	<15	92.4	<15						
2/04/2015	<8	97.5	<12	<16	<14	<15	20.9	<24	<14	<10	88.1	<23	<17	<10	<18	<9	100	<118	88.7	<15	92.5	<15						
2/04/2015	38.2	96.7	<12	63.1	<14	<15	<15	<24	<14	<10	92.4	<23	<17	<10	<18	<9	98.9	171	94.8	47.2	92.2	22.4						

Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete					%	%	%																
IP 1667	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1668	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Detected in Postlewhite						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1669	0.30-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected Paul Fenney						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1670	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1735	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1737	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Postlewhite						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1754	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1756	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Sargeant						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1756	1.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1756	2.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1758	0.50-	140808-10	06/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Not Detected	0	Not Detected	21/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1760	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1760	1.00-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1823	2.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1826	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Cotterell						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1826	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1835	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected Paul Fenney						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1835	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1836	1.00-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected Kevin Gill						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1840	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1840	2.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1841	0.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1841	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1842	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1848	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1848	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1848	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1905	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Detected	Not Detected	-	Not Detected	-
IP 1905	1.60-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1905	2.60-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1905	3.30-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1908	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Detected in Sargeant						-	Detected in ACM debris	Detected	Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1908	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1909	0.50-	140806-8	04/08/2014	06/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1909	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1909	2.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1911	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Sargeant						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1911	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1920	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Detected in fibres in soil	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1920	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1921	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1921	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1922	1.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1922	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1923	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1923	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1929	0.50-	140807-37	05/08/2014	07/08/2014	20/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1931	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1931	1.50-	140806-8	04/08/2014	06/08/2014	17/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1931	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1931	3.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1932	0.50-	140806-8	04/08/2014	06/08/2014	19/08/2014	-	-						-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Not Detected	Not Detected	-	Not Detected	-
IP 1932	1.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1932	2.50-	140806-8	04/08/2014	06/08/2014	18/08/2014	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1994	0.50-	140807-37	05/08/2014	07/08/2014	03/09/2014	None	Not Detected in Swindells	N/C		<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	Not Detected	Not Detected	-	Detected	Not Detected	-	Not Detected	-
IP 1998	0.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	Not Detected in Swindells						-	Not Detected	0	Not Detected	22/08/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP 1998	1.50-	140808-10	05/08/2014	08/08/2014	22/08/2014	-	-						-	-	-	-												

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP 2501	0.20-	140818-45	13/08/2014	18/08/2014	03/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2501	0.40-	140818-45	13/08/2014	18/08/2014	04/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2501	1.50-	140818-45	13/08/2014	18/08/2014	02/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	0.20-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2582	2.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2583	0.50-	140805-8	01/08/2014	05/08/2014	18/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2598	0.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2598	1.50-	140805-8	01/08/2014	05/08/2014	16/08/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	0.50-	140902-28	28/08/2014	02/09/2014	16/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	1.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	2.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2879	3.50-	140902-28	28/08/2014	02/09/2014	17/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0836	0.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0836	1.50-	140808-10	05/08/2014	08/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0928	0.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 0928	1.50-	140807-37	05/08/2014	07/08/2014	02/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 1013	0.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE 1013	1.50-	140812-31	08/08/2014	12/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	0.90-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1821	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1846	2.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	0.80-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1847	3.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1906	2.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	0.20-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	0.40-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1927	1.45-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	0.30-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	1.50-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1928	2.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	0.20-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	1.00-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 1995	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	0.20-	140908-37	04/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	0.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	1.00-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2012	1.50-	140908-37	04/09/2014	08/09/2014	23/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2091	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2091	1.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2111	0.50-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2111	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	0.60-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2187	1.60-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2207	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2207	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	0.30-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2208	1.80-	140908-1	03/09/2014	08/09/2014	21/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	0.50-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	0.90-	140908-1	03/09/2014	08/09/2014	20/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	1.40-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2285	2.00-	140908-1	03/09/2014	08/09/2014	22/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IP 2286	0.50-	140908-1	03/09/2014	08/09/2014	21/09/2014	-</																	

Excavate

Commercial
Deep 1%

[illegible]

Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*	
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete					%	%	%															
IP1910	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-	
IP1910	1.50	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1910	2.20	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1919	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	hris Swindells	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP1919	1.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1919	2.40	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1993	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP1993	1.50	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1993	2.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2018	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Detected	je fibres in soil	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2018	1.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Trace	je fibres in soil	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2018	2.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2019	0.30	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2019	1.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2019	1.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2089	0.20	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2089	1.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2089	1.50	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2108	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2108	1.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2114	0.50	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	farin Cotterel	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2114	1.50	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2114	2.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2502	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Gill	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2502	0.70	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	n Postlewhite	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2502	1.70	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2503	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	hris Swindells	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2503	1.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2503	2.50	140918-12	15/09/2014	18/09/2014	01/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	0.50	140918-12	15/09/2014	18/09/2014	01/10/2014	-	Not Detected	hris Swindells	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2580	1.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	2.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	3.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2580	4.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Gill	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IP2677	1.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	2.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	3.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	4.50	140918-12	15/09/2014	18/09/2014	01/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2677	5.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-
IP2697	1.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	2.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	3.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	4.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2697	5.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Kevin Bowron	-	-	-	-	-	Not Detected	0	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TP1004	1.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	2.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP1004	3.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1003	0.50	140918-18	15/09/2014	18/09/2014	01/10/2014	-	Detected	hris Swindells	-	-	-	-	-	Not Detected	je fibres in soil	Not Detected	30/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TPE1003	1.50	140918-18	15/09/2014	18/09/2014	29/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE930	0.30	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
TPE930	1.00	140918-18	15/09/2014	18/09/2014	30/09/2014	-	Not Detected	Paul Fenney	-	-	-	-	-	Not Detected	0	Not Detected	29/9/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IPE759	0.50	140711-130	09/07/2014	11/07/2014	23/10/2014	-	Not Detected	aura Robbins	-	-	-	-	-	Not Detected	0	Not Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-
IPE759	0.90	140711-130	09/07/2014	11/07/2014	23/10/2014	None	Detected	n Postlewhite	N/C	0.0045	0.0014	0.0059	Not Detected	je fibres in soil	Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	
IPE759	1.50	140711-130	09/07/2014	11/07/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IPE759	2.50	140711-130	09/07/2014	11/07/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IPE823	0.20	140711-130	09/07/2014	11/07/2014	23/10/2014	None	Not Detected	hris Swindells	N/C	<0.001	<0.001	<0.001	Detected	je fibres in soil	Not Detected	22/7/14	Not Detected	Not Detected	Not Detected	Not Detected	-	-					

Excavate

Commercial
Deep 1%

[illegible]

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP 2387	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2388	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2390	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2390	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2392	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2486	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2488	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2488	1.10-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2489	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	0.50-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	1.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2490	2.50-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	1.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2491	2.50-	141003-69	29/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	0.20-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	1.00-	141003-69	29/09/2014	03/10/2014	21/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2492	2.00-	141003-69	29/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2493	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2494	2.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2496	2.50-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2592	0.40-	141001-76	26/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	0.50-	141001-76	26/09/2014	01/10/2014	05/11/2014	see fibres in soil,	N/C	0.0445	0.0024	0.0469	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	1.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	2.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2779	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2865	1.00-	141001-76	26/09/2014	01/10/2014	05/11/2014	None	N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2865	2.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2866	0.20-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2866	3.00-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2869	0.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2869	1.50-	141001-76	26/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	0.90-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2194	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	0.90-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2195	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	0.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	1.80-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	2.80-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	3.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2196	4.20-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	1.40-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	2.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2292	3.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	0.50-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	0.90-	141003-92	30/09/2014	03/10/2014	20/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	1.50-	141003-92	30/09/2014	03/10/2014	19/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2293	2.50-	141003-92	30/																				

Excavate

Commercial
Deep 1%

[illegible]

Monitor Phase 58

Excavate

Commercial
Deep 1%

Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
						-	-	-	%	%	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1751	0.50-	150214-75	11/02/2015	14/02/2015	23/04/2015	None	Not Detected	in Postlewhite	N/C	0.0095	<0.001	0.0102	Detected	je fibres in soil	Not Detected	2/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	
IP1751	1.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP1752	0.50-	150214-75	11/02/2015	14/02/2015	23/04/2015	None	Not Detected	in Postlewhite	N/C	<0.001	<0.001	<0.001	Detected	je fibres in soil	Not Detected	2/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	
IP1752	1.50-	150214-75	11/02/2015	14/02/2015	03/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP1752	2.50-	150214-75	11/02/2015	14/02/2015	03/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP2106	0.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	-	Not Detected	Kevin Hughes	-	-	-	-	Not Detected	0	Not Detected	2/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	
IP2106	1.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP2603	0.50-	150214-75	11/02/2015	14/02/2015	04/03/2015	-	Not Detected	scca Rawlings	-	-	-	-	Not Detected	0	Not Detected	2/3/15	Not Detected	Not Detected	Not Detected	Detected	-	-	-	-	-	-	
IP2603	1.50-	150214-75	11/02/2015	14/02/2015	02/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP1567	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
IP1567	2.00-	150221-57	17/02/2015	21/02/2015	11/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1567	3.50-	150221-57	17/02/2015	21/02/2015	11/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1573	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
IP1576	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP1576	2.00-	150221-57	17/02/2015	21/02/2015	12/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1576	3.50-	150221-57	17/02/2015	21/02/2015	12/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1577	0.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
IP1577	1.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1577	2.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1577	3.50-	150221-73	18/02/2015	21/02/2015	12/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1578	0.50-	150221-73	18/02/2015	21/02/2015	13/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP1578	1.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1578	2.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1578	3.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1578	4.30-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE0737	0.50-	150221-73	18/02/2015	21/02/2015	16/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
TPE0739	0.50-	150221-57	17/02/2015	21/02/2015	22/04/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
TPE0739	2.00-	150221-57	17/02/2015	21/02/2015	11/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE0739	3.50-	150221-57	17/02/2015	21/02/2015	12/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1570	0.50-	150302-28	26/02/2015	02/03/2015	26/03/2015	-	Not Detected	Kevin Hughes	-	-	-	-	Detected	je fibres in soil	Not Detected	24/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP1570	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1570	2.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1907	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	Not Detected	uren Sargeant	-	-	-	-	Not Detected	0	Not Detected	24/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP1907	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1918	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	Not Detected	uren Sargeant	-	-	-	-	Not Detected	0	Not Detected	24/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP1918	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2093	0.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	Not Detected	uren Sargeant	-	-	-	-	Not Detected	0	Not Detected	24/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP2093	1.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2599	0.50-	150302-28	26/02/2015	02/03/2015	25/03/2015	-	Not Detected	scca Rawlings	-	-	-	-	Not Detected	0	Not Detected	24/3/15	Not Detected	Not Detected	Not Detected	Not Detected	-	-	-	-	-	-	-
IP2599	1.50-	150302-28	26/02/2015	02/03/2015	25/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2599	2.50-	150302-28	26/02/2015	02/03/2015	23/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2599	3.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2599	4.50-	150302-28	26/02/2015	02/03/2015	24/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1663	0.50-	150304-83	02/03/2015	04/03/2015	31/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected
IP1663	1.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1663	2.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1663	3.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1664	0.50-	150304-83	02/03/2015	04/03/2015	31/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Detected	Not Detected	Not Detected
IP1664	1.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1664	2.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1664	3.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1665	0.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP1665	1.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1665	2.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1665	3.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1930	0.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP1930	1.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP1930	2.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2487	0.50-	150304-83	02/03/2015	04/03/2015	27/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
IP2487	1.50-	150304-83	02/03/2015	04/03/2015	30/03/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2487	2.50-	150304-83																									

Monitor Phase 58

Excavate

Commercial
Deep 1%

		Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete																		
IP2005	0.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2005	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2005	2.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2006	0.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2006	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	0.50-	141121-129	18/11/2014	21/11/2014	13/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	1.50-	141121-129	18/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2007	2.50-	141121-129	18/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1924	0.80-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1924	2.00-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 1843	0.50-	140828-48	21/08/2014	28/08/2014	10/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2203	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2678	0.50-	140828-42	22/08/2014	28/08/2014	08/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP 2678	1.50-	140828-42	22/08/2014	28/08/2014	07/09/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	0.30-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	1.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	2.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2096	3.20-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	1.50-	141007-35	02/10/2014	07/10/2014	22/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2097	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	1.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2098	2.80-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	1.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2099	2.40-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	1.10-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	1.70-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2100	2.90-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	0.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	1.40-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2104	2.00-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2193	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	0.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1007	2.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1008	0.60-	141007-35	02/10/2014	07/10/2014	17/11/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1008	1.60-	141007-35	02/10/2014	07/10/2014	26/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	0.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	1.50-	141007-35	02/10/2014	07/10/2014	24/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1010	2.50-	141007-35	02/10/2014	07/10/2014	23/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	0.40-	141009-111	09/10/2014	17/11/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	1.40-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2094	2.40-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	0.50-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	1.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2095	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	0.40-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	1.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2101	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	0.30-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	1.25-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	1.60-	141009-111	09/10/2014	24/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2102	2.60-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	0.30-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	1.00-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	1.50-	141009-111	09/10/2014	25/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2103	2.50-	141009-111	09/10/2014	26/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	1.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	1.40-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	2.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP2192	3.00-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	0.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	1.35-	141011-9	11/10/2014	29/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1006	2.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	0.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	1.25-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	1.50-	141011-9	11/10/2014	28/10/2014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TPE1011	2.50-	141011-9	11/10/2014	28/10/2014		-	-																

Monitor Phase 58

Excavate

Commercial
Deep 1%

						Asbestos Components (Using TM048)	Amosite (Brown) Asbestos	Analysed By	Analysts Comments	Asbestos Quantification - Gravimetric - %	Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %	Chrysotile (White) Asbestos	Comments	Crocidolite (Blue) Asbestos	Date of Analysis	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non- Asbestos Fibre	Actinolite*	Amosite*	Anthophyllite*	Chrysotile*	Crocidolite*	Asbestos Fibres Detected	Tremolite*		
						Commercial Deep 1%																							
Sample Description	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete	-	-		%	%	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IP 2775	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- lagging debris	0.0251	0.0025	0.0276	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
IP 2775	1.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2775	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2777	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- lagging debris	0.0485	<0.001	0.0492	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
IP 2777	2.00	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2778	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	0.0129	0.0021	0.015	-	-	-	-	-	-	-	-	- Not Detected	- Detected	- Not Detected	-	-	-	-		
IP 2778	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2780	0.50	141001-77	25/09/2014	01/10/2014	13/11/2014	Amosite	-	-	- Loose fibres	0.0074	<0.001	0.0077	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
IP 2780	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2864	1.00	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	0.0102	0.0016	0.0118	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
IP 2864	2.00	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP 2867	0.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
IP 2867	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1185	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
TPE 1185	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1185	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1186	0.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
TPE 1186	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1186	2.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1187	0.20	141001-77	25/09/2014	01/10/2014	12/11/2014	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
TPE 1187	0.60	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1268	0.50	141001-77	25/09/2014	01/10/2014	12/11/2014	pose fibres in soil,	-	-	- N/C	0.004	0.0013	0.0053	-	-	-	-	-	-	-	-	- Not Detected	- Detected	- Not Detected	-	-	-	-		
TPE 1268	1.50	141001-77	25/09/2014	01/10/2014	17/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1268	2.50	141001-77	25/09/2014	01/10/2014	18/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IP2016	0.50	140807-37		12/08/2014	27/08/2014	Not Detected farin Cotterell						Not Detected				26/8/14	Not Detected	Not Detected	Not Detected	Not Detected									
IP 2202	0.50	140806-8	04/08/2014	06/08/2014	19/08/2014																	Not Detected	Not Detected			Not Detected			
IP 2202	1.50	140806-8	04/08/2014	06/08/2014	19/08/2014																								
IP 2674	0.50	140803-11	31/08/2014	03/08/2014	19/08/2014	Not Detected in Postlewhite										19/8/14	Not Detected	Not Detected	Not Detected	Detected									
TPE 0758	0.50	140808-10	06/08/2014	08/08/2014	10/12/2014	Detected uren Sargeant										22/08/14	Not Detected	Not Detected	Not Detected	Not Detected									
TPE 910	0.30	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	-	-	-	-	Not Detected		
TPE 910	1.00	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	-	-	-	-	Not Detected		
TPE 910	2.00	140818-45	13/08/2014	18/08/2014	10/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE825	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	None	-	-	- N/C	0.0034	<0.001	0.004	-	-	-	-	-	-	-	-	- Not Detected	- Not Detected	- Not Detected	-	-	-	-		
TPE825	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE825	2.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE826	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	pose fibres in soil)	-	-	- N/C	0.0012	<0.001	0.0013	-	-	-	-	-	-	-	-	- Not Detected	- Detected	- Not Detected	-	-	-	-		
TPE826	1.50	141121-118	17/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE922	0.50	141121-118	17/11/2014	21/11/2014	02/02/2015	None	-	-	- N/C	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	- Not Detected	- Detected	- Not Detected	-	-	-	-		
TPE922	1.50	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE923	1.00	141121-118	17/11/2014	21/11/2014	11/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Not Detected	-	- Not Detected	-	-	-	-		
TPE923	2.00	141121-118	17/11/2014	21/11/2014	12/12/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP7038	0.50	140627-104	25/06/2014	27/06/2014	10/07/2014	Not Detected Paul Fenney						Not Detected				8/7/14	Not Detected	Not Detected	Not Detected	Not Detected									
TP7038	1.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP7038	2.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TP7038	3.00	140627-104	25/06/2014	27/06/2014	10/07/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE 1000	0.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	Not Detected	Not Detected						
TPE 1000	1.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-						
TPE 1000	2.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-						
TPE 1000	3.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-						
TPE 1000	4.50	140806-8	04/08/2014	06/08/2014	02/12/2014																	-	-						
TPE1014	0.50	140709-14	07/07/2014	09/07/2014	09/10/2014	Not Detected Paul Fenney						Not Detected				17/7/14	Not Detected	Not Detected	Not Detected	Not Detected									
TPE1014	1.50	140709-14	07/07/2014	09/07/2014	09/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE1014	2.30	140709-14	07/07/2014	09/07/2014	09/10/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TPE1017	0.50	140918-12	15/09/2014	18/09/2014	30/09/2014	Not Detected Kevin Gill																							
TPE1017	1.00	140918-12	15/09/2014	18/09/2014	30/09/2014	-	-	-	-	-	-	-	-																

Monitor Phase 58

Excavate

Commercial
Deep 1%

[illegible]

Appendix D. Laboratory Analytical Results – Remedial Works



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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 20 July 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150711-51
Your Reference: RMA23 Pipes
Location: Coed Darcy
Report No: 321649

We received 7 samples on Saturday July 11, 2015 and 7 of these samples were scheduled for analysis which was completed on Monday July 20, 2015. 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:	150711-51	Location:	Coed Darcy	Order Number:	CD1284
Job:	H_ATKINS_LDC-402	Customer:	Atkins Global Ltd	Report Number:	321649
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11698358	1		0.00 - 0.00	10/07/2015
11698361	2		0.00 - 0.00	10/07/2015
11698364	3		0.00 - 0.00	10/07/2015
11698367	4		0.00 - 0.00	10/07/2015
11698370	5		0.00 - 0.00	10/07/2015
11698373	6		0.00 - 0.00	10/07/2015
11698376	7		0.00 - 0.00	10/07/2015

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



SDG: 150711-51
Job: H_ATKINS_LDC-402
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1284
Report Number: 321649
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)**Customer Sample Reference****AGS Reference****Depth (m)****Container**

11698376	7		0.00 - 0.00	60g VOC (ALE215)
11698373	6		0.00 - 0.00	250g Amber Jar (AL)
11698370	5		0.00 - 0.00	250g Amber Jar (AL)
11698367	4		0.00 - 0.00	250g Amber Jar (AL)
11698364	3		0.00 - 0.00	250g Amber Jar (AL)
11698361	2		0.00 - 0.00	250g Amber Jar (AL)
11698358	1		0.00 - 0.00	250g Amber Jar (AL)

EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 7		X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X



SDG:	150711-51	Location:	Coed Darcy	Order Number:	CD1284
Job:	H_ATKINS_LDC-402	Customer:	Atkins Global Ltd	Report Number:	321649
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
------------------	----------	-------------	-----------------	---------------	-------------	---------------	------------	--------------------	-------

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11698358	1	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11698361	2	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
11698364	3	0.00 - 0.00	Grey	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11698367	4	0.00 - 0.00	Dark Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
11698370	5	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11698373	6	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11698376	7	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

Order Number:	CD1284
Report Number:	321649
Superseded Report:	

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SDG: 150711-51
Job: H_ATKINS_LDC-402
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1284
Report Number: 321649
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[illegible]

Order Number: CD1284
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Order Number: CD1284
Report Number: 321649
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 150711-51
Job: H_ATKINS_LDC-402
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1284
Report Number: 321649
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R	1	2	3	4	5	6	
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	77	83	86	89	55	75		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	5190	30600	272000	2120	769	93000		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<50	<20	<20		
Benzene	<10 µg/kg	TM089	<40	57.8	<40	<100	<40	<40		
Toluene	<2 µg/kg	TM089	<8	<8	<8	<20	<8	<8		
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<30	<12	<12		
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<60	<24	<24		
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<30	<12	<12		
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	57.8	<24	<24	<24	<24		
Aliphatics >C5-C6	<10 µg/kg	TM089	133	1390	9330	<100	40.9	89.3		
Aliphatics >C6-C8	<10 µg/kg	TM089	470	11800	81600	<100	113	3260		
Aliphatics >C8-C10	<10 µg/kg	TM089	1320	6510	63000	219	190	21300		
Aliphatics >C10-C12	<10 µg/kg	TM089	1430	3920	45500	985	179	32400		
Aliphatics >C12-C16	<100 µg/kg	TM173	76400	11800	1100000	711000	37700	37900		
Aliphatics >C16-C21	<100 µg/kg	TM173	188000	23500	1300000	803000	113000	47200		
Aliphatics >C21-C35	<100 µg/kg	TM173	219000	50400	2220000	1420000	309000	73700		
Aliphatics >C35-C44	<100 µg/kg	TM173	54900	17000	758000	399000	101000	18300		
Total Aliphatics >C12-C44	<100 µg/kg	TM173	538000	103000	5380000	3340000	561000	177000		
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	57.8	<40	<100	<40	<40		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<100	<40	<40		
Aromatics >EC8-EC10	<10 µg/kg	TM089	878	4340	42000	150	126	14200		
Aromatics >EC10-EC12	<10 µg/kg	TM089	956	2610	30300	657	119	21600		
Aromatics >EC12-EC16	<100 µg/kg	TM173	17300	4190	315000	203000	9660	8130		
Aromatics >EC16-EC21	<100 µg/kg	TM173	83300	20800	669000	431000	60800	21500		
Aromatics >EC21-EC35	<100 µg/kg	TM173	226000	93800	1810000	1120000	365000	58500		
Aromatics >EC35-EC44	<100 µg/kg	TM173	82700	39200	812000	437000	191000	21700		
Aromatics >EC40-EC44	<100 µg/kg	TM173	34200	15600	336000	175000	79000	8830		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	409000	158000	3610000	2190000	627000	110000		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	953000	291000	9260000	5530000	1190000	380000		



CERTIFICATE OF ANALYSIS

SDG: 150711-51
Job: H_ATKINS_LDC-402
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1284
Report Number: 321649
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	7				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00				
M	mCERTS accredited.		Soil/Solid				
aq	Aqueous / settled sample.		10/07/2015				
diss.filt	Dissolved / filtered sample.		.				
tot.unfilt	Total / unfiltered sample.		11/07/2015				
*	Subcontracted test.		150711-51				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		11698376				
(F)	Trigger breach confirmed						
1-5&*\$@	Sample deviation (see appendix)						
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	82				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	16800	M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	M			
Benzene	<10 µg/kg	TM089	142	M			
Toluene	<2 µg/kg	TM089	<8	M			
Ethylbenzene	<3 µg/kg	TM089	<12	M			
m,p-Xylene	<6 µg/kg	TM089	<24	M			
o-Xylene	<3 µg/kg	TM089	<12	M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089	142				
Aliphatics >C5-C6	<10 µg/kg	TM089	1710				
Aliphatics >C6-C8	<10 µg/kg	TM089	8290				
Aliphatics >C8-C10	<10 µg/kg	TM089	2360				
Aliphatics >C10-C12	<10 µg/kg	TM089	1600				
Aliphatics >C12-C16	<100 µg/kg	TM173	2510				
Aliphatics >C16-C21	<100 µg/kg	TM173	4640				
Aliphatics >C21-C35	<100 µg/kg	TM173	18800				
Aliphatics >C35-C44	<100 µg/kg	TM173	7390				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	33300				
Aromatics >EC5-EC7	<10 µg/kg	TM089	142				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40				
Aromatics >EC8-EC10	<10 µg/kg	TM089	1580				
Aromatics >EC10-EC12	<10 µg/kg	TM089	1070				
Aromatics >EC12-EC16	<100 µg/kg	TM173	3750				
Aromatics >EC16-EC21	<100 µg/kg	TM173	2760				
Aromatics >EC21-EC35	<100 µg/kg	TM173	14900				
Aromatics >EC35-EC44	<100 µg/kg	TM173	8240				
Aromatics >EC40-EC44	<100 µg/kg	TM173	3360				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	29700				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	79700				



SDG:	150711-51	Location:	Coed Darcy	Order Number:	CD1284
Job:	H_ATKINS_LDC-402	Customer:	Atkins Global Ltd	Report Number:	321649
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

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



SDG:	150711-51	Location:	Coed Darcy	Order Number:	CD1284
Job:	H_ATKINS_LDC-402	Customer:	Atkins Global Ltd	Report Number:	321649
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	11698358	11698361	11698364	11698367	11698370	11698373	11698376
Customer Sample Ref.	1	2	3	4	5	6	7
AGS Ref.							
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID

EPH CWG (Aliphatic) GC (S)	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015
EPH CWG (Aromatic) GC (S)	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015
GRO by GC-FID (S)	16-Jul-2015	16-Jul-2015	17-Jul-2015	17-Jul-2015	16-Jul-2015	17-Jul-2015	16-Jul-2015
PAH by GCMS	16-Jul-2015	16-Jul-2015	17-Jul-2015	17-Jul-2015	17-Jul-2015	17-Jul-2015	17-Jul-2015
Sample description	14-Jul-2015	14-Jul-2015	14-Jul-2015	14-Jul-2015	14-Jul-2015	14-Jul-2015	14-Jul-2015
TPH CWG GC (S)	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015



SDG: 150711-51
Job: H_ATKINS_LDC-402
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1284
Report Number: 321649
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 10 July 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150703-100
Your Reference: RMA23 Pipe (DV)
Location: Coed Darcy
Report No: 320453

We received 3 samples on Friday July 03, 2015 and 3 of these samples were scheduled for analysis which was completed on Friday July 10, 2015. 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:	150703-100	Location:	Coed Darcy	Order Number:	CD1273
Job:	H_ATKINS_LDC-396	Customer:	Atkins Global Ltd	Report Number:	320453
Client Reference:	RMA23 Pipe (DV)	Attention:	Jack Lowrie	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11652385	1		0.00 - 0.00	02/07/2015
11652388	2		0.00 - 0.00	02/07/2015
11652391	3		0.00 - 0.00	02/07/2015

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



SDG:	150703-100	Location:	Coed Darcy	Order Number:	CD1273
Job:	H_ATKINS_LDC-396	Customer:	Atkins Global Ltd	Report Number:	320453
Client Reference:	RMA23 Pipe (DV)	Attention:	Jack Lowrie	Superseded Report:	

SOLID

Results Legend

X

 Test

N

 No Determination Possible

Lab Sample No(s)	11652391	11652388	11652385
Customer Sample Reference	3	2	1
AGS Reference			
Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Container	60g VOC (ALE215)	250g Amber Jar (AL 60g VOC (ALE215))	250g Amber Jar (AL 60g VOC (ALE215))

EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 3	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 3	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 3		X	X
PAH by GCMS	All	NDPs: 0 Tests: 3	X	X	X
Sample description	All	NDPs: 0 Tests: 3	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 3	X	X	X



SDG:	150703-100	Location:	Coed Darcy	Order Number:	CD1273
Job:	H_ATKINS_LDC-396	Customer:	Atkins Global Ltd	Report Number:	320453
Client Reference:	RMA23 Pipe (DV)	Attention:	Jack Lowrie	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2		
11652385	1	0.00 - 0.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None		
11652388	2	0.00 - 0.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None		
11652391	3	0.00 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation		

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

Order Number: CD1273
Report Number: 320453
Superseded Report:

Page 5 of 10

CERTIFICATE OF ANALYSIS

SDG: 150703-100
Job: H_ATKINS_LDC-396
Client Reference: RMA23 Pipe (DV)

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1273
Report Number: 320453
Superseded Report:

PAH by GCMS

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 150703-100
Job: H_ATKINS_LDC-396
Client Reference: RMA23 Pipe (DV)

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1273
Report Number: 320453
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R			1	2	3			
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Soil/Solid 02/07/2015 03/07/2015 150703-100 11652385	0.00 - 0.00 Soil/Solid 02/07/2015 03/07/2015 150703-100 11652388	0.00 - 0.00 Soil/Solid 02/07/2015 03/07/2015 150703-100 11652391					
M	mCERTS accredited.										
aq	Aqueous / settled sample.										
diss.filt	Dissolved / filtered sample.										
tot.unfilt	Total / unfiltered sample.										
*	Subcontracted test.										
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
(F)	Trigger breach confirmed										
1-5&*\$@	Sample deviation (see appendix)										
Component	LOD/Units	Method									
GRO Surrogate % recovery**	%	TM089		124	72	30					
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	1930 M	<176 M					
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M					
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M					
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M					
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M					
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M					
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M					
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9					
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24					
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40					
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	98.9	<40					
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	179	<40					
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	911	<40					
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	169000	11100					
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	347000	36900					
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	328000	124000					
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	116000	41900					
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	960000	214000					
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40					
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40					
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	120	<40					
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	607	<40					
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	109000	3570					
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	141000	16300					
Aromatics >EC21-EC35	<100 µg/kg	TM173		6530	283000	139000					
Aromatics >EC35-EC44	<100 µg/kg	TM173		3150	138000	90500					
Aromatics >EC40-EC44	<100 µg/kg	TM173		982	53300	38000					
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		9680	670000	249000					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		9700	1630000	464000					



SDG:	150703-100	Location:	Coed Darcy	Order Number:	CD1273
Job:	H_ATKINS_LDC-396	Customer:	Atkins Global Ltd	Report Number:	320453
Client Reference:	RMA23 Pipe (DV)	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

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



SDG:	150703-100	Location:	Coed Darcy	Order Number:	CD1273
Job:	H_ATKINS_LDC-396	Customer:	Atkins Global Ltd	Report Number:	320453
Client Reference:	RMA23 Pipe (DV)	Attention:	Jack Lowrie	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	11652385	11652388	11652391
Customer Sample Ref.	1	2	3
AGS Ref.			
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	08-Jul-2015	09-Jul-2015	09-Jul-2015
EPH CWG (Aromatic) GC (S)	08-Jul-2015	09-Jul-2015	09-Jul-2015
GRO by GC-FID (S)	10-Jul-2015	10-Jul-2015	10-Jul-2015
PAH by GCMS	08-Jul-2015	08-Jul-2015	08-Jul-2015
Sample description	04-Jul-2015	04-Jul-2015	04-Jul-2015
TPH CWG GC (S)	10-Jul-2015	10-Jul-2015	10-Jul-2015



SDG: 150703-100
Job: H_ATKINS_LDC-396
Client Reference: RMA23 Pipe (DV)

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1273
Report Number: 320453
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 23 June 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150613-27
Your Reference: SS11 and SSUN
Location: Coed Darcy
Report No: 318102

We received 30 samples on Saturday June 13, 2015 and 30 of these samples were scheduled for analysis which was completed on Saturday June 20, 2015. 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:	150613-27	Location:	Coed Darcy	Order Number:	CD1253
Job:	H_ATKINS_LDC-387	Customer:	Atkins Global Ltd	Report Number:	318102
Client Reference:	SS11 and SSUN	Attention:	Jack Lowrie	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11528679	IP1434		0.50	11/06/2015
11528682	IP1434		1.50	11/06/2015
11528596	IP1434		2.50	11/06/2015
11528669	IP1488		0.50	11/06/2015
11528672	IP1488		1.50	11/06/2015
11528676	IP1488		2.50	11/06/2015
11528608	IP1489		0.50	11/06/2015
11528611	IP1489		1.50	11/06/2015
11528614	IP1489		2.50	11/06/2015
11528617	IP1489		3.50	11/06/2015
11528593	IP1509		0.50	11/06/2015
11528626	IP1509		1.50	11/06/2015
11528659	IP1509		2.50	11/06/2015
11528665	IP1509		3.50	11/06/2015
11528620	IP2385		0.50	11/06/2015
11528623	IP2385		1.50	11/06/2015
11528629	IP2385		2.50	11/06/2015
11528632	IP2385		3.50	11/06/2015
11528635	IP2385		4.50	11/06/2015
11528650	IP2398		0.50	11/06/2015
11528653	IP2398		1.50	11/06/2015
11528656	IP2398		2.50	11/06/2015
11528662	IP2398		3.50	11/06/2015
11528599	TPE0683		0.50	11/06/2015
11528602	TPE0683		1.50	11/06/2015
11528605	TPE0683		2.50	11/06/2015
11528638	TPE1103		0.30	11/06/2015
11528641	TPE1103		1.50	11/06/2015
11528644	TPE1103		2.50	11/06/2015
11528647	TPE1103		3.50	11/06/2015

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

SDG:	150613-27	Location:	Coed Darcy	Order Number:	CD1253
Job:	H_ATKINS_LDC-387	Customer:	Atkins Global Ltd	Report Number:	318102
Client Reference:	SS11 and SSUN	Attention:	Jack Lowrie	Superseded Report:	

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CERTIFICATE OF ANALYSIS

SDG: 150613-27
Job: H_ATKINS_LDC-387
Client Reference: SS11 and SSUN

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1253
Report Number: 318102
Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11528596	IP1434	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11528679	IP1434	0.50	Light Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Stones
11528682	IP1434	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11528669	IP1488	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11528672	IP1488	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
11528676	IP1488	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Vegetation
11528608	IP1489	0.50	Black	N/A	0.1 - 2 mm	Stones	N/A
11528611	IP1489	1.50	Black	N/A	0.1 - 2 mm	Stones	N/A
11528614	IP1489	2.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11528617	IP1489	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11528593	IP1509	0.50	Black	N/A	0.1 - 2 mm	Brick	Vegetation
11528626	IP1509	1.50	Black	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Oil/Petroleum
11528659	IP1509	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
11528665	IP1509	3.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Oil/Petroleum
11528620	IP2385	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11528623	IP2385	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11528629	IP2385	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11528632	IP2385	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11528635	IP2385	4.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11528650	IP2398	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Vegetation
11528653	IP2398	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Stones
11528656	IP2398	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11528662	IP2398	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	None
11528599	TPE0683	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11528602	TPE0683	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11528605	TPE0683	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
11528638	TPE1103	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	None
11528641	TPE1103	1.50	Red	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11528644	TPE1103	2.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
11528647	TPE1103	3.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

Order Number: CD1253
Report Number: 318102
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Order Number: CD1253
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SDG:	150613-27	Location:	Coed Darcy	Order Number:	CD1253
Job:	H_ATKINS_LDC-387	Customer:	Atkins Global Ltd	Report Number:	318102
Client Reference:	SS11 and SSUN	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils		

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



CERTIFICATE OF ANALYSIS

SDG: 150613-27
Job: H_ATKINS_LDC-387
Client Reference: SS11 and SSUN

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1253
Report Number: 318102
Superseded Report:

Test Completion Dates

Lab Sample No(s)	11528596	11528679	11528682	11528669	11528672	11528676	11528608	11528611	11528614	11528617
Customer Sample Ref.	IP1434	IP1434	IP1434	IP1488	IP1488	IP1488	IP1489	IP1489	IP1489	IP1489
AGS Ref.										
Depth	2.50	0.50	1.50	0.50	1.50	2.50	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCBs by GCMS	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	20-Jun-2015	19-Jun-2015
Sample description	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	17-Jun-2015	16-Jun-2015

Lab Sample No(s)	11528593	11528626	11528659	11528665	11528620	11528623	11528629	11528632	11528635	11528650
Customer Sample Ref.	IP1509	IP1509	IP1509	IP1509	IP2385	IP2385	IP2385	IP2385	IP2385	IP2398
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	4.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCBs by GCMS	20-Jun-2015	19-Jun-2015	19-Jun-2015	20-Jun-2015	20-Jun-2015	20-Jun-2015	20-Jun-2015	20-Jun-2015	20-Jun-2015	19-Jun-2015
Sample description	16-Jun-2015	16-Jun-2015	16-Jun-2015	18-Jun-2015	17-Jun-2015	18-Jun-2015	17-Jun-2015	18-Jun-2015	17-Jun-2015	16-Jun-2015

Lab Sample No(s)	11528653	11528656	11528662	11528599	11528602	11528605	11528638	11528641	11528644	11528647
Customer Sample Ref.	IP2398	IP2398	IP2398	TPE0683	TPE0683	TPE0683	TPE1103	TPE1103	TPE1103	TPE1103
AGS Ref.										
Depth	1.50	2.50	3.50	0.50	1.50	2.50	0.30	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCBs by GCMS	20-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	19-Jun-2015	20-Jun-2015	20-Jun-2015
Sample description	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	17-Jun-2015	17-Jun-2015	17-Jun-2015	17-Jun-2015



SDG: 150613-27
Job: H_ATKINS_LDC-387
Client Reference: SS11 and SSUN

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1253
Report Number: 318102
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 24 June 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150612-89
Your Reference: Pipe Run STF
Location: Coed Darcy
Report No: 318332

We received 7 samples on Friday June 12, 2015 and 7 of these samples were scheduled for analysis which was completed on Wednesday June 24, 2015. 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:	150612-89	Location:	Coed Darcy	Order Number:	CD1252
Job:	H_ATKINS_LDC-386	Customer:	Atkins Global Ltd	Report Number:	318332
Client Reference:	Pipe Run STF	Attention:	Jack Lowrie	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11524158	PRA_1		0.00 - 0.00	11/06/2015
11524161	PRB_1		0.00 - 0.00	11/06/2015
11524165	PRB_2		0.00 - 0.00	11/06/2015
11524169	PRB_3		0.00 - 0.00	11/06/2015
11524172	PRB_4		0.00 - 0.00	11/06/2015
11524176	PRB_5		0.00 - 0.00	11/06/2015
11524180	PRB_6		0.00 - 0.00	11/06/2015

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



SDG: 150612-89
Job: H_ATKINS_LDC-386
Client Reference: Pipe Run STF

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1252
Report Number: 318332
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

11524180	PRB_6		0.00 - 0.00	60g VOC (ALE215)
11524176	PRB_5		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))
11524172	PRB_4		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))
11524169	PRB_3		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))
11524165	PRB_2		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))
11524161	PRB_1		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))
11524158	PRA_1		0.00 - 0.00	250g Amber Jar (AL 60g VOC (ALE215))

EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 7		X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 7	X	X	X	X	X	X	X



SDG:	150612-89	Location:	Coed Darcy	Order Number:	CD1252
Job:	H_ATKINS_LDC-386	Customer:	Atkins Global Ltd	Report Number:	318332
Client Reference:	Pipe Run STF	Attention:	Jack Lowrie	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11524158	PRA_1	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
11524161	PRB_1	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11524165	PRB_2	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	None
11524169	PRB_3	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11524172	PRB_4	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	None
11524176	PRB_5	0.00 - 0.00	Light Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11524180	PRB_6	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Vegetation

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

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Report Number: 318332
Superseded Report:

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Order Number: CD1252
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Order Number: CD1252
Report Number: 318332
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SDG: 150612-89
Job: H_ATKINS_LDC-386
Client Reference: Pipe Run STF

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1252
Report Number: 318332
Superseded Report:

PAH by GCMS

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 150612-89
Job: H_ATKINS_LDC-386
Client Reference: Pipe Run STF

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1252
Report Number: 318332
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.		PRA_1	PRB_1	PRB_2	PRB_3	PRB_4	PRB_5
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Soil/Solid 11/06/2015	0.00 - 0.00 Soil/Solid 11/06/2015	0.00 - 0.00 Soil/Solid 11/06/2015	0.00 - 0.00 Soil/Solid 11/06/2015	0.00 - 0.00 Soil/Solid 11/06/2015	0.00 - 0.00 Soil/Solid 11/06/2015
aq	Aqueous / settled sample.		12/06/2015 150612-89 11524158	12/06/2015 150612-89 11524161	12/06/2015 150612-89 11524165	12/06/2015 150612-89 11524169	12/06/2015 150612-89 11524172	12/06/2015 150612-89 11524176
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*&@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	67	90	116	65	99	47
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	63200 M	191000 M	326000 M	384 M	4360 M	66400 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M	<20 M	<50 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089	<40 M	69 M	130 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089	<8 M	<8 M	<20 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089	<12 M	<12 M	<30 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089	<24 M	<24 M	<60 M	33.9 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089	<12 M	<12 M	<30 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	33.9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	69	130	33.9	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	174	173	565	<40	<40	64.1
Aliphatics >C6-C8	<10 µg/kg	TM089	4150	16100	61500	58.5	102	7560
Aliphatics >C8-C10	<10 µg/kg	TM089	15100	55800	82400	66.7	599	16000
Aliphatics >C10-C12	<10 µg/kg	TM089	20200	49000	75700	80.7	1930	19200
Aliphatics >C12-C16	<100 µg/kg	TM173	590000	4990000	446000	123000	71400	1140000
Aliphatics >C16-C21	<100 µg/kg	TM173	883000	6590000	650000	295000	173000	1150000
Aliphatics >C21-C35	<100 µg/kg	TM173	1630000	2320000	1310000	733000	277000	1440000
Aliphatics >C35-C44	<100 µg/kg	TM173	556000	445000	446000	299000	94700	570000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	3660000	14300000	2860000	1450000	616000	4300000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	69	130	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<100	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	10100	37200	54900	90.1	400	10700
Aromatics >EC10-EC12	<10 µg/kg	TM089	13500	32600	50500	53.8	1290	12800
Aromatics >EC12-EC16	<100 µg/kg	TM173	<500	72400	<500	8290	5610	<500
Aromatics >EC16-EC21	<100 µg/kg	TM173	102000	211000	71000	75300	25600	111000
Aromatics >EC21-EC35	<100 µg/kg	TM173	258000	178000	223000	588000	144000	250000
Aromatics >EC35-EC44	<100 µg/kg	TM173	136000	73400	118000	322000	58400	121000
Aromatics >EC40-EC44	<100 µg/kg	TM173	55800	30600	49300	135000	23500	49900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	496000	534000	411000	993000	233000	482000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	4210000	15100000	3590000	2440000	854000	4850000



CERTIFICATE OF ANALYSIS

SDG: 150612-89
Job: H_ATKINS_LDC-386
Client Reference: Pipe Run STF

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1252
Report Number: 318332
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	PRB_6				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Soil/Solid 11/06/2015 . 12/06/2015 150612-89 11524180				
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-5&*\$@	Sample deviation (see appendix)						
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	45				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	35900 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M				
Benzene	<10 µg/kg	TM089	<40 M				
Toluene	<2 µg/kg	TM089	<8 M				
Ethylbenzene	<3 µg/kg	TM089	<12 M				
m,p-Xylene	<6 µg/kg	TM089	<24 M				
o-Xylene	<3 µg/kg	TM089	<12 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089	83.6				
Aliphatics >C6-C8	<10 µg/kg	TM089	2340				
Aliphatics >C8-C10	<10 µg/kg	TM089	6610				
Aliphatics >C10-C12	<10 µg/kg	TM089	13500				
Aliphatics >C12-C16	<100 µg/kg	TM173	253000				
Aliphatics >C16-C21	<100 µg/kg	TM173	369000				
Aliphatics >C21-C35	<100 µg/kg	TM173	742000				
Aliphatics >C35-C44	<100 µg/kg	TM173	305000				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1670000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40				
Aromatics >EC8-EC10	<10 µg/kg	TM089	4410				
Aromatics >EC10-EC12	<10 µg/kg	TM089	8990				
Aromatics >EC12-EC16	<100 µg/kg	TM173	127000				
Aromatics >EC16-EC21	<100 µg/kg	TM173	158000				
Aromatics >EC21-EC35	<100 µg/kg	TM173	572000				
Aromatics >EC35-EC44	<100 µg/kg	TM173	252000				
Aromatics >EC40-EC44	<100 µg/kg	TM173	99600				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1110000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2810000				



SDG:	150612-89	Location:	Coed Darcy	Order Number:	CD1252
Job:	H_ATKINS_LDC-386	Customer:	Atkins Global Ltd	Report Number:	318332
Client Reference:	Pipe Run STF	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

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



SDG:	150612-89	Location:	Coed Darcy	Order Number:	CD1252
Job:	H_ATKINS_LDC-386	Customer:	Atkins Global Ltd	Report Number:	318332
Client Reference:	Pipe Run STF	Attention:	Jack Lowrie	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	11524158	11524161	11524165	11524169	11524172	11524176	11524180
Customer Sample Ref.	PRA_1	PRB_1	PRB_2	PRB_3	PRB_4	PRB_5	PRB_6
AGS Ref.							
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	22-Jun-2015
EPH CWG (Aromatic) GC (S)	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	18-Jun-2015	22-Jun-2015
GRO by GC-FID (S)	22-Jun-2015	23-Jun-2015	24-Jun-2015	23-Jun-2015	23-Jun-2015	22-Jun-2015	22-Jun-2015
PAH by GCMS	23-Jun-2015	18-Jun-2015	19-Jun-2015	18-Jun-2015	18-Jun-2015	23-Jun-2015	24-Jun-2015
Sample description	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015	16-Jun-2015
TPH CWG GC (S)	22-Jun-2015	23-Jun-2015	24-Jun-2015	23-Jun-2015	23-Jun-2015	22-Jun-2015	22-Jun-2015



SDG: 150612-89
Job: H_ATKINS_LDC-386
Client Reference: Pipe Run STF

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1252
Report Number: 318332
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 30 July 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150718-67
Your Reference: RMA23 Pipes
Location: Coed Darcy
Report No: 323279

We received 9 samples on Saturday July 18, 2015 and 9 of these samples were scheduled for analysis which was completed on Thursday July 30, 2015. 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:	150718-67	Location:	Coed Darcy	Order Number:	CD1299
Job:	H_ATKINS_LDC-406	Customer:	Atkins Global Ltd	Report Number:	323279
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11739972	J		0.00 - 0.00	17/07/2015
11739975	K		0.00 - 0.00	17/07/2015
11739978	L		0.00 - 0.00	17/07/2015
11739982	M		0.00 - 0.00	17/07/2015
11739985	N		0.00 - 0.00	17/07/2015
11739988	O		0.00 - 0.00	17/07/2015
11739991	P		0.00 - 0.00	17/07/2015
11739994	Q		0.00 - 0.00	17/07/2015
11739997	R		0.00 - 0.00	17/07/2015

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



SDG: 150718-67
Job: H_ATKINS_LDC-406
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1299
Report Number: 323279
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

1173997	R		0.00 - 0.00	60g VOC (ALE215)
1173994	Q		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173991	P		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173988	O		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173985	N		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173982	M		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173978	L		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173975	K		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)
1173972	J		0.00 - 0.00	250g Amber Jar (AL)
				60g VOC (ALE215)

EPH CWG (Aliphatic) GC (S)

All

NDPs: 0
Tests: 9

X	X	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---

EPH CWG (Aromatic) GC (S)

All

NDPs: 0
Tests: 9

X	X	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---

GRO by GC-FID (S)

All

NDPs: 0
Tests: 9

	X	X	X	X	X	X	X	X	X
--	---	---	---	---	---	---	---	---	---

Sample description

All

NDPs: 0
Tests: 9

X	X	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---

TPH CWG GC (S)

All

NDPs: 0
Tests: 9

X	X	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---



SDG:	150718-67	Location:	Coed Darcy	Order Number:	CD1299
Job:	H_ATKINS_LDC-406	Customer:	Atkins Global Ltd	Report Number:	323279
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11739972	J	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11739975	K	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Crushed Brick	Stones
11739978	L	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11739982	M	0.00 - 0.00	Light Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11739985	N	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11739988	O	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11739991	P	0.00 - 0.00	Light Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11739994	Q	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Crushed Brick	Stones
11739997	R	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

Order Number: CD1299
Report Number: 323279
Superseded Report:

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Order Number: CD1299
Report Number: 323279
Superseded Report:

Page 6 of 11



CERTIFICATE OF ANALYSIS

SDG: 150718-67
Job: H_ATKINS_LDC-406
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1299
Report Number: 323279
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		J	K	L	M	N	O
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				17/07/2015	17/07/2015	17/07/2015	17/07/2015	17/07/2015	17/07/2015
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed				18/07/2015	18/07/2015	18/07/2015	18/07/2015	18/07/2015	18/07/2015
1-5&\$@	Sample deviation (see appendix)				150718-67	150718-67	150718-67	150718-67	150718-67	150718-67
					11739972	11739975	11739978	11739982	11739985	11739988
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			102	74	69	68	73	73
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			229	6660	<176	164000	3280	103000
					M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<20	<20	<20	<20	<20	<20
					M	M	M	M	M	M
Benzene	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
					M	M	M	M	M	M
Toluene	<2 µg/kg	TM089			<8	<8	<8	<8	<8	<8
					M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089			<12	<12	<12	<12	<12	<12
					M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089			<24	<24	<24	<24	<24	<24
					M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089			<12	<12	<12	<12	<12	<12
					M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089			<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089			<40	56.8	<40	275	<40	48
Aliphatics >C6-C8	<10 µg/kg	TM089			<40	365	<40	16600	219	4530
Aliphatics >C8-C10	<10 µg/kg	TM089			53.1	1110	<40	34100	642	32200
Aliphatics >C10-C12	<10 µg/kg	TM089			54.2	2630	<40	53900	1180	27200
Aliphatics >C12-C16	<100 µg/kg	TM173			5540	15100	11000	682000	19800	1340000
Aliphatics >C16-C21	<100 µg/kg	TM173			31100	70500	139000	714000	113000	1290000
Aliphatics >C21-C35	<100 µg/kg	TM173			105000	128000	225000	813000	215000	584000
Aliphatics >C35-C44	<100 µg/kg	TM173			37200	40100	48500	270000	68800	83200
Total Aliphatics >C12-C44	<100 µg/kg	TM173			179000	254000	423000	2480000	417000	3300000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089			<40	739	<40	22700	428	21400
Aromatics >EC10-EC12	<10 µg/kg	TM089			<40	1760	<40	35900	784	18100
Aromatics >EC12-EC16	<100 µg/kg	TM173			1690	4300	1660	153000	4280	133000
Aromatics >EC16-EC21	<100 µg/kg	TM173			7900	26700	18600	223000	35700	355000
Aromatics >EC21-EC35	<100 µg/kg	TM173			96000	126000	126000	449000	149000	302000
Aromatics >EC35-EC44	<100 µg/kg	TM173			71100	73300	62100	190000	73700	76600
Aromatics >EC40-EC44	<100 µg/kg	TM173			29900	32500	27100	76200	30500	30900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			177000	230000	208000	1010000	263000	867000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			355000	491000	631000	3660000	683000	4270000



CERTIFICATE OF ANALYSIS

SDG: 150718-67
Job: H_ATKINS_LDC-406
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1299
Report Number: 323279
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	P	Q	R			
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.00 Soil/Solid 17/07/2015 18/07/2015 150718-67 11739991	0.00 - 0.00 Soil/Solid 17/07/2015 18/07/2015 150718-67 11739994	0.00 - 0.00 Soil/Solid 17/07/2015 18/07/2015 150718-67 11739997			
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	77	43	75			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 M	65600 M	<176 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M	<20 M	<20 M			
Benzene	<10 µg/kg	TM089	<40 M	<40 M	<40 M			
Toluene	<2 µg/kg	TM089	<8 M	<8 M	<8 M			
Ethylbenzene	<3 µg/kg	TM089	<12 M	<12 M	<12 M			
m,p-Xylene	<6 µg/kg	TM089	<24 M	<24 M	<24 M			
o-Xylene	<3 µg/kg	TM089	<12 M	<12 M	<12 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	95.6	<40			
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	5250	<40			
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	14100	<40			
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	22000	<40			
Aliphatics >C12-C16	<100 µg/kg	TM173	1090	1760000	53800			
Aliphatics >C16-C21	<100 µg/kg	TM173	14900	2040000	155000			
Aliphatics >C21-C35	<100 µg/kg	TM173	14700	2240000	374000			
Aliphatics >C35-C44	<100 µg/kg	TM173	4620	633000	150000			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	35200	6670000	733000			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40			
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40			
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	9390	<40			
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	14700	<40			
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	507000	13500			
Aromatics >EC16-EC21	<100 µg/kg	TM173	3150	1080000	95900			
Aromatics >EC21-EC35	<100 µg/kg	TM173	19700	1860000	591000			
Aromatics >EC35-EC44	<100 µg/kg	TM173	13800	766000	254000			
Aromatics >EC40-EC44	<100 µg/kg	TM173	5790	314000	100000			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	36600	4210000	955000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	71900	10900000	1690000			



SDG:	150718-67	Location:	Coed Darcy	Order Number:	CD1299
Job:	H_ATKINS_LDC-406	Customer:	Atkins Global Ltd	Report Number:	323279
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		

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



SDG:	150718-67	Location:	Coed Darcy	Order Number:	CD1299
Job:	H_ATKINS_LDC-406	Customer:	Atkins Global Ltd	Report Number:	323279
Client Reference:	RMA23 Pipes	Attention:	Jack Lowrie	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	11739972	11739975	11739978	11739982	11739985	11739988	11739991	11739994	11739997
Customer Sample Ref.	J	K	L	M	N	O	P	Q	R
AGS Ref.									
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID

EPH CWG (Aliphatic) GC (S)	28-Jul-2015	30-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	30-Jul-2015	28-Jul-2015
EPH CWG (Aromatic) GC (S)	28-Jul-2015	30-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	30-Jul-2015	28-Jul-2015
GRO by GC-FID (S)	29-Jul-2015	29-Jul-2015	29-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	29-Jul-2015	29-Jul-2015	29-Jul-2015
Sample description	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015	25-Jul-2015
TPH CWG GC (S)	29-Jul-2015	30-Jul-2015	29-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	29-Jul-2015	30-Jul-2015	29-Jul-2015



SDG: 150718-67
Job: H_ATKINS_LDC-406
Client Reference: RMA23 Pipes

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD1299
Report Number: 323279
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

Date: 11 August 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150717-127
Your Reference: RMA23
Location: Coed Darcy
Report No: 324901

This report has been revised and directly supersedes 323131 in its entirety.

We received 39 samples on Friday July 17, 2015 and 39 of these samples were scheduled for analysis which was completed on Tuesday August 11, 2015. 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: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11736461	IP2769_B		0.00 - 0.00	16/07/2015
11736446	IP2777_B		0.00 - 0.00	16/07/2015
11736483	IP1995,1928_B1		0.00 - 0.00	16/07/2015
11736486	IP1995,1928_B2		0.00 - 0.00	16/07/2015
11736457	IP2769_E		0.00 - 0.00	16/07/2015
11736442	IP2777_E		0.00 - 0.00	16/07/2015
11736476	IP1995,1928_E		0.00 - 0.00	16/07/2015
11736451	IP2769_N		0.00 - 0.00	16/07/2015
11736438	IP2777_N		0.00 - 0.00	16/07/2015
11736397	IP1995,1928_N1		0.00 - 0.00	16/07/2015
11736425	IP1995,1928_N2		0.00 - 0.00	16/07/2015
11736453	IP2769_S		0.00 - 0.00	16/07/2015
11736440	IP2777_S		0.00 - 0.00	16/07/2015
11736448	IP1995,1928_S1		0.00 - 0.00	16/07/2015
11736473	IP1995,1928_S2		0.00 - 0.00	16/07/2015
11736459	IP2769_W		0.00 - 0.00	16/07/2015
11736444	IP2777_W		0.00 - 0.00	16/07/2015
11736479	IP1995,1928_W		0.00 - 0.00	16/07/2015
11736471	TPE0758_B		0.00 - 0.00	16/07/2015
11736415	TPE0924_B1		0.00 - 0.00	16/07/2015
11736417	TPE0924_B2		0.00 - 0.00	16/07/2015
11736434	TPE2779-268_B1		0.00 - 0.00	16/07/2015
11736436	TPE2779-268_B2		0.00 - 0.00	16/07/2015
11736467	TPE0758_E		0.00 - 0.00	16/07/2015
11736411	TPE0924_E		0.00 - 0.00	16/07/2015
11736423	TPE2779-268_E1		0.00 - 0.00	16/07/2015
11736428	TPE2779-268_E2		0.00 - 0.00	16/07/2015
11736463	TPE0758_N		0.00 - 0.00	16/07/2015
11736489	TPE0924_N1		0.00 - 0.00	16/07/2015
11736400	TPE0924_N2		0.00 - 0.00	16/07/2015
11736419	TPE2779-268_N		0.00 - 0.00	16/07/2015
11736465	TPE0758_S		0.00 - 0.00	16/07/2015
11736407	TPE0924_S1		0.00 - 0.00	16/07/2015
11736409	TPE0924_S2		0.00 - 0.00	16/07/2015
11736421	TPE2779-268_S		0.00 - 0.00	16/07/2015
11736469	TPE0758_W		0.00 - 0.00	16/07/2015
11736413	TPE0924_W		0.00 - 0.00	16/07/2015
11736430	TPE2779-268_W1		0.00 - 0.00	16/07/2015
11736432	TPE2779-268_W2		0.00 - 0.00	16/07/2015

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



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

11736432	TPE2779-268 W2		0.00 - 0.00	400g Tub (ALE214)
11736430	TPE2779-268 W1		0.00 - 0.00	400g Tub (ALE214)
11736413	TPE0924 W		0.00 - 0.00	400g Tub (ALE214)
11736469	TPE0758 W		0.00 - 0.00	400g Tub (ALE214)
11736421	TPE2779-268 S		0.00 - 0.00	400g Tub (ALE214)
11736409	TPE0924 S2		0.00 - 0.00	400g Tub (ALE214)
11736407	TPE0924 S1		0.00 - 0.00	400g Tub (ALE214)

Asbestos ID in Solid Samples

All

NDPs: 0
Tests: 31

X	X	X	X	X	X	X
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Asbestos Quant. Detail Gravimetric

All

NDPs: 1
Tests: 11

X	X	X	X	X		
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Asbestos Quantification - Full

All

NDPs: 2
Tests: 0

N						N
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Sample description

All

NDPs: 0
Tests: 39

X	X	X	X	X	X	X
---	---	---	---	---	---	---



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11736483	IP1995,1928_B1	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736486	IP1995,1928_B2	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736476	IP1995,1928_E	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
11736397	IP1995,1928_N1	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736425	IP1995,1928_N2	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736448	IP1995,1928_S1	0.00 - 0.00	Light Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11736473	IP1995,1928_S2	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11736479	IP1995,1928_W	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736461	IP2769_B	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11736446	IP2777_B	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736457	IP2769_E	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11736442	IP2777_E	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736451	IP2769_N	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11736438	IP2777_N	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736453	IP2769_S	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
11736440	IP2777_S	0.00 - 0.00	Dark Brown	Sand	0.063 - 0.1 mm	Vegetation	Stones
11736459	IP2769_W	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
11736444	IP2777_W	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Vegetation	Stones
11736471	TPE0758_B	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
11736415	TPE0924_B1	0.00 - 0.00	Dark Brown	Clay	<0.063 mm	Vegetation	None
11736417	TPE0924_B2	0.00 - 0.00	Dark Brown	Clay	<0.063 mm	Vegetation	Brick
11736434	TPE2779-268_B1	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Vegetation	Stones
11736436	TPE2779-268_B2	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736467	TPE0758_E	0.00 - 0.00	Black	Sand	0.1 - 2 mm	Crushed Brick	Stones
11736411	TPE0924_E	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Glass & Stones	Brick
11736423	TPE2779-268_E1	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736428	TPE2779-268_E2	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736463	TPE0758_N	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
11736489	TPE0924_N1	0.00 - 0.00	Dark Brown	Sand	0.1 - 2 mm	Glass & Stones	Brick
11736400	TPE0924_N2	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Crushed Brick
11736419	TPE2779-268_N	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Glass & Stones	Vegetation
11736465	TPE0758_S	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
11736407	TPE0924_S1	0.00 - 0.00	Dark Brown	Clay	<0.063 mm	Stones	Brick
11736409	TPE0924_S2	0.00 - 0.00	Dark Brown	Clay	<0.063 mm	Vegetation	Stones
11736421	TPE2779-268_S	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11736469	TPE0758_W	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11736413	TPE0924_W	0.00 - 0.00	Dark Brown	Clay	<0.063 mm	Glass & Stones	Vegetation
11736430	TPE2779-268_W1	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Brick



CERTIFICATE OF ANALYSIS

SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

			Colour	Description	Grain size	Inclusions	Inclusions 2
11736432	TPE2779-268_W2	0.00 - 0.00	Dark Brown	Silty Sand	0.063 - 0.1 mm	Glass & Stones	Vegetation

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

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CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number:	CD1297
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[illegible]

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CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number:	CD1297
Report Number:	324901
Superseded Report:	323131

[illegible]

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
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[illegible]

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CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

TPH CWG (S)

Results Legend			Customer Sample R		IP1995,1928_B1	IP1995,1928_B2	IP1995,1928_E	IP1995,1928_N1	IP1995,1928_N2	IP1995,1928_S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				16/07/2015	16/07/2015	16/07/2015	16/07/2015	16/07/2015	16/07/2015
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				17/07/2015	17/07/2015	17/07/2015	17/07/2015	17/07/2015	17/07/2015
(F)	Trigger breach confirmed				150717-127	150717-127	150717-127	150717-127	150717-127	150717-127
1-5&*\$@	Sample deviation (see appendix)				11736483	11736486	11736476	11736397	11736425	11736448
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			71	51	72	73	59	63
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			1470	346	6110	<176	960	888
					M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<20	<20	<20	<20	<20	<20
					M	M	M	M	M	M
Benzene	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
					M	M	M	M	M	M
Toluene	<2 µg/kg	TM089			9.74	<8	<8	<8	9.77	9.52
					M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089			36.8	<12	36	<12	13	29.8
					M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089			74.7	<24	<24	<24	<24	41.7
					M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089			<12	<12	<12	<12	<12	<12
					M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			74.7	<9	<9	<9	<9	41.7
sum of detected BTEX by GC	<24 µg/kg	TM089			121	<24	36	<24	<24	81
Aliphatics >C5-C6	<10 µg/kg	TM089			164	41.1	73.1	<40	103	92.8
Aliphatics >C6-C8	<10 µg/kg	TM089			283	91	182	<40	251	262
Aliphatics >C8-C10	<10 µg/kg	TM089			177	47.7	912	<40	205	139
Aliphatics >C10-C12	<10 µg/kg	TM089			339	69.9	2570	<40	125	126
Aliphatics >C12-C16	<100 µg/kg	TM173			46000	245000	47900	393000	24300	9930
Aliphatics >C16-C21	<100 µg/kg	TM173			109000	926000	189000	1270000	126000	104000
Aliphatics >C21-C35	<100 µg/kg	TM173			199000	1150000	213000	783000	242000	162000
Aliphatics >C35-C44	<100 µg/kg	TM173			66400	331000	48000	202000	79400	50400
Total Aliphatics >C12-C44	<100 µg/kg	TM173			420000	2660000	498000	2650000	472000	326000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089			237	48.8	666	<40	165	174
Aromatics >EC10-EC12	<10 µg/kg	TM089			225	46.6	1710	<40	83.5	84.5
Aromatics >EC12-EC16	<100 µg/kg	TM173			14500	62500	7560	17400	4780	1760
Aromatics >EC16-EC21	<100 µg/kg	TM173			44500	426000	61700	257000	34100	22800
Aromatics >EC21-EC35	<100 µg/kg	TM173			121000	857000	172000	490000	133000	99100
Aromatics >EC35-EC44	<100 µg/kg	TM173			57600	332000	70000	160000	62100	46000
Aromatics >EC40-EC44	<100 µg/kg	TM173			23400	139000	29000	62200	24600	17900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			237000	1680000	311000	924000	234000	170000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			659000	4330000	815000	3570000	707000	496000



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

TPH CWG (S)

Results Legend		Customer Sample R	IP1995,1928_S2		IP1995,1928_W					
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.									
aq	Aqueous / settled sample.			0.00 - 0.00		0.00 - 0.00				
diss.filt	Dissolved / filtered sample.			Soil/Solid		Soil/Solid				
tot.unfilt	Total / unfiltered sample.			16/07/2015		16/07/2015				
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			17/07/2015		17/07/2015				
(F)	Trigger breach confirmed			150717-127		150717-127				
1-5&*\$@	Sample deviation (see appendix)			11736473		11736479				
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	69		53					
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	950		207					
			M		M					
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20		<20					
			M		M					
Benzene	<10 µg/kg	TM089	<40		<40					
			M		M					
Toluene	<2 µg/kg	TM089	<8		<8					
			M		M					
Ethylbenzene	<3 µg/kg	TM089	13.4		<12					
			M		M					
m,p-Xylene	<6 µg/kg	TM089	<24		<24					
			M		M					
o-Xylene	<3 µg/kg	TM089	<12		<12					
			M		M					
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9					
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24					
Aliphatics >C5-C6	<10 µg/kg	TM089	101		<40					
Aliphatics >C6-C8	<10 µg/kg	TM089	212		59.8					
Aliphatics >C8-C10	<10 µg/kg	TM089	124		<40					
Aliphatics >C10-C12	<10 µg/kg	TM089	223		40.3					
Aliphatics >C12-C16	<100 µg/kg	TM173	568		6200					
Aliphatics >C16-C21	<100 µg/kg	TM173	7550		74000					
Aliphatics >C21-C35	<100 µg/kg	TM173	17500		204000					
Aliphatics >C35-C44	<100 µg/kg	TM173	6710		133000					
Total Aliphatics >C12-C44	<100 µg/kg	TM173	32300		417000					
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40		<40					
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40		<40					
Aromatics >EC8-EC10	<10 µg/kg	TM089	119		<40					
Aromatics >EC10-EC12	<10 µg/kg	TM089	149		<40					
Aromatics >EC12-EC16	<100 µg/kg	TM173	514		2580					
Aromatics >EC16-EC21	<100 µg/kg	TM173	3050		30700					
Aromatics >EC21-EC35	<100 µg/kg	TM173	11500		182000					
Aromatics >EC35-EC44	<100 µg/kg	TM173	5250		95600					
Aromatics >EC40-EC44	<100 µg/kg	TM173	2000		40900					
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	20300		311000					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	53600		729000					



SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2769_B 0.00 - 0.00 SOLID 16/07/2015 00:00:00 22/07/2015 12:31:29 150717-127 11736461 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_B 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:02:28 150717-127 11736446 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2769_E 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 09:46:41 150717-127 11736457 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_E 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:06:47 150717-127 11736442 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2769_N 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 09:42:23 150717-127 11736451 TM048	28/7/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 150717-127
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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
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		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_N 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:33:43 150717-127 11736438 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2769_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 22/07/2015 12:27:44 150717-127 11736453 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 20:52:19 150717-127 11736440 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2769_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 10:07:34 150717-127 11736459 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:39:16 150717-127 11736444 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_B 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 10:00:07 150717-127 11736471 TM048	28/7/15	Rebecca Rawlings	Soil containing fibre bundles	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
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Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_B1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:26:24 150717-127 11736415 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_B2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:30:38 150717-127 11736417 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_B1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:16:27 150717-127 11736434 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_B2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:19:28 150717-127 11736436 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_E 0.00 - 0.00 SOLID 16/07/2015 00:00:00 22/07/2015 11:38:13 150717-127 11736467 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_E 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:36:04 150717-127 11736411 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_E1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:17:25 150717-127 11736423 TM048	28/7/15	Rebecca Rawlings	Soil containing fibre bundles	Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_E2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:28:36 150717-127 11736428 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_N 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 08:55:17 150717-127 11736463 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_N1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:39:04 150717-127 11736489 TM048	28/7/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_N2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:21:05 150717-127 11736400 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_N 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:24:18 150717-127 11736419 TM048	28/7/15	Rebecca Rawlings	Soil containing fibre bundles	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 09:56:30 150717-127 11736465 TM048	27/7/15	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_S1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:15:46 150717-127 11736407 TM048	28/7/15	Rebecca Rawlings	Soil containing loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_S2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:31:28 150717-127 11736409 TM048	28/7/15	Rebecca Rawlings	Soil containing ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:12:59 150717-127 11736421 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 23/07/2015 09:51:03 150717-127 11736469 TM048	27/7/15	Simon Postlewhite	Soil containing loose fibres	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 21/07/2015 00:49:35 150717-127 11736413 TM048	28/7/15	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_W1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 21:22:53 150717-127 11736430 TM048	28/7/15	Rebecca Rawlings	Soil containing loose fibres	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_W2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 20/07/2015 23:09:56 150717-127 11736432 TM048	28/7/15	Rebecca Rawlings	Soil containing fibre bundles	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_E 0.00 - 0.00 SOLID 16/07/2015 00:00:00 10/08/2015 10:13:26 150717-127 11736442 TM 304	Chrysotile, crocidolite (Fibre bundles in soil). (#)	N/C	0.0491 (#)	<0.001 (#)	0.0491 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_N 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:52:47 150717-127 11736438 TM 304	Chrysotile & Crocidolite (#)	Soil containing fibre bundles & AIB debris	0.0429 (#)	0.0878 (#)	0.1307 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:36:17 150717-127 11736440 TM 304	Chrysotile (#)	Fibre bundles in soil	0.0036 (#)	<0.001 (#)	0.0036 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP2777_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:50:02 150717-127 11736444 TM 304	Amosite (#)	Fibre bundles in soil	0.0241 (#)	<0.001 (#)	0.0241 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_B 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 11:25:12 150717-127 11736471 TM 304	None (#)	N/C	0.0019 (#)	0.0251 (#)	0.027 (#)



CERTIFICATE OF ANALYSIS

SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_E1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:45:13 150717-127 11736423 TM 304	None (#)	N/C	0.0010 (#)	<0.001 (#)	0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_E2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:43:04 150717-127 11736428 TM 304	Crocidolite (#)	Fibre bundles in soil	0.0376 (#)	<0.001 (#)	0.0376 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0924_S2 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 09:42:48 150717-127 11736409 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_S 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:39:57 150717-127 11736421 TM 304	Chrysotile (#)	Fibre bundles in soil	0.0714 (#)	0.1799 (#)	0.2513 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0758_W 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 11:27:31 150717-127 11736469 TM 304	Amosite and Crocidolite (#)	Fibre bundles in soil	0.0230 (#)	<0.001 (#)	0.023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE2779-268_W1 0.00 - 0.00 SOLID 16/07/2015 00:00:00 05/08/2015 10:47:48 150717-127 11736430 TM 304	None (#)	N/C	0.0866 (#)	<0.001 (#)	0.0866 (#)



CERTIFICATE OF ANALYSIS

Validated

SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

Notification of NDPs (No determination possible)

Date Received : 17/07/2015 17:10:19

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
11736407	TPE0924_S1	0.00 - 0.00	Asbestos Quantification - Full	Insufficient Sample
11736419	TPE2779-268_N	0.00 - 0.00	Asbestos Quant. Detail Gravimetric	Insufficient Sample
11736432	TPE2779-268_W2	0.00 - 0.00	Asbestos Quantification - Full	Insufficient Sample



SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

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



CERTIFICATE OF ANALYSIS

Validated

SDG:	150717-127	Location:	Coed Darcy	Order Number:	CD1297
Job:	H_ATKINS_LDC-405	Customer:	Atkins Global Ltd	Report Number:	324901
Client Reference:	RMA23	Attention:	Barney Irlam	Superseded Report:	323131

Test Completion Dates

Lab Sample No(s)	11736483	11736486	11736476	11736397	11736461	11736446	11736457	11736442	11736451	11736438
Customer Sample Ref.	IP1995,1928_B1	IP1995,1928_B2	IP1995,1928_E	IP1995,1928_N1	IP2769_B	IP2777_B	IP2769_E	IP2777_E	IP2769_N	IP2777_N
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples					28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015
Asbestos Quant. Detail Gravimetric								11-Aug-2015		07-Aug-2015
EPH CWG (Aliphatic) GC (S)	23-Jul-2015	23-Jul-2015	23-Jul-2015	23-Jul-2015						
EPH CWG (Aromatic) GC (S)	23-Jul-2015	24-Jul-2015	23-Jul-2015	23-Jul-2015						
GRO by GC-FID (S)	24-Jul-2015	24-Jul-2015	27-Jul-2015	24-Jul-2015						
PAH by GCMS	23-Jul-2015	23-Jul-2015	23-Jul-2015	28-Jul-2015						
Sample description	18-Jul-2015	18-Jul-2015	18-Jul-2015	18-Jul-2015	22-Jul-2015	20-Jul-2015	23-Jul-2015	20-Jul-2015	23-Jul-2015	20-Jul-2015
Total Organic Carbon			29-Jul-2015	29-Jul-2015						
TPH CWG GC (S)	24-Jul-2015	24-Jul-2015	27-Jul-2015	24-Jul-2015						

Lab Sample No(s)	11736425	11736448	11736473	11736479	11736453	11736440	11736459	11736444	11736471	11736415
Customer Sample Ref.	IP1995,1928_N2	IP1995,1928_S1	IP1995,1928_S2	IP1995,1928_W	IP2769_S	IP2777_S	IP2769_W	IP2777_W	TPE0758_B	TPE0924_B1
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples					28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015
Asbestos Quant. Detail Gravimetric						07-Aug-2015		07-Aug-2015	07-Aug-2015	
EPH CWG (Aliphatic) GC (S)	23-Jul-2015	23-Jul-2015	23-Jul-2015	24-Jul-2015						
EPH CWG (Aromatic) GC (S)	23-Jul-2015	23-Jul-2015	23-Jul-2015	24-Jul-2015						
GRO by GC-FID (S)	24-Jul-2015	24-Jul-2015	27-Jul-2015	24-Jul-2015						
PAH by GCMS	23-Jul-2015	23-Jul-2015	23-Jul-2015	27-Jul-2015						
Sample description	18-Jul-2015	18-Jul-2015	18-Jul-2015	18-Jul-2015	22-Jul-2015	20-Jul-2015	23-Jul-2015	20-Jul-2015	23-Jul-2015	21-Jul-2015
TPH CWG GC (S)	24-Jul-2015	24-Jul-2015	27-Jul-2015	24-Jul-2015						

Lab Sample No(s)	11736417	11736434	11736436	11736467	11736411	11736423	11736428	11736463	11736489	11736400
Customer Sample Ref.	TPE0924_B2	TPE2779-268_B1	TPE2779-268_B2	TPE0758_E	TPE0924_E	TPE2779-268_E1	TPE2779-268_E2	TPE0758_N	TPE0924_N1	TPE0924_N2
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015
Asbestos Quant. Detail Gravimetric						07-Aug-2015	07-Aug-2015			
Sample description	21-Jul-2015	21-Jul-2015	20-Jul-2015	22-Jul-2015	21-Jul-2015	20-Jul-2015	20-Jul-2015	23-Jul-2015	21-Jul-2015	21-Jul-2015

Lab Sample No(s)	11736419	11736465	11736407	11736409	11736421	11736469	11736413	11736430	11736432
Customer Sample Ref.	TPE2779-268_N	TPE0758_S	TPE0924_S1	TPE0924_S2	TPE2779-268_S	TPE0758_W	TPE0924_W	TPE2779-268_W1	TPE2779-268_W2
AGS Ref.									
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015	28-Jul-2015
Asbestos Quant. Detail Gravimetric				07-Aug-2015	07-Aug-2015	07-Aug-2015		07-Aug-2015	
Sample description	20-Jul-2015	23-Jul-2015	21-Jul-2015	21-Jul-2015	20-Jul-2015	23-Jul-2015	21-Jul-2015	21-Jul-2015	20-Jul-2015



SDG: 150717-127
Job: H_ATKINS_LDC-405
Client Reference: RMA23

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1297
Report Number: 324901
Superseded Report: 323131

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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



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

Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

Date: 22 July 2015
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 150714-45
Your Reference: MP59 pipes and RBSL
Location: Coed Darcy
Report No: 322015

We received 12 samples on Tuesday July 14, 2015 and 12 of these samples were scheduled for analysis which was completed on Wednesday July 22, 2015. 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:	150714-45	Location:	Coed Darcy	Order Number:	CD1288
Job:	H_ATKINS_LDC-403	Customer:	Atkins Global Ltd	Report Number:	322015
Client Reference:	MP59 pipes and RBSL	Attention:	Barney Irlam	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11709268	Conc Pipe nr ip2226		1.50	13/07/2015
11709285	Pipe A (nr DV)_1		1.00	13/07/2015
11709288	Pipe A (nr DV)_2		1.00	13/07/2015
11709291	Pipe A (nr DV)_3		1.00	13/07/2015
11709295	Pipe A (nr DV)_4		1.00	13/07/2015
11709300	Pipe A (nr DV)_5		1.00	13/07/2015
11709303	Pipe B (nr DV)_1		1.00	13/07/2015
11709306	Pipe C (nr DV)_1		1.00	13/07/2015
11709278	TPE996_E		2.50	13/07/2015
11709310	TPE996_N		2.50	13/07/2015
11709275	TPE996_S		2.50	13/07/2015
11709282	TPE996_W		2.50	13/07/2015

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



CERTIFICATE OF ANALYSIS

SDG: 150714-45
Job: H_ATKINS_LDC-403
Client Reference: MP59 pipes and RBSL

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1288
Report Number: 322015
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

			11709282	TPE996_W		2.50	60g VOC (ALE215)
			11709275	TPE996_S		2.50	250g Amber Jar (AL)
			11709310	TPE996_N		2.50	60g VOC (ALE215)
			11709278	TPE996_E		2.50	250g Amber Jar (AL)
			11709306	Pipe C (nr DV)_1		1.00	60g VOC (ALE215)
			11709303	Pipe B (nr DV)_1		1.00	250g Amber Jar (AL)
			11709300	Pipe A (nr DV)_5		1.00	60g VOC (ALE215)
			11709295	Pipe A (nr DV)_4		1.00	250g Amber Jar (AL)
			11709291	Pipe A (nr DV)_3		1.00	60g VOC (ALE215)
			11709288	Pipe A (nr DV)_2		1.00	250g Amber Jar (AL)
			11709285	Pipe A (nr DV)_1		1.00	60g VOC (ALE215)
			11709268	Conc Pipe nr IP2226		1.50	250g Amber Jar (AL)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 12					
			X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 12					
			X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 12					
			X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 12					
			X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 2					
			X				X
TPH CWG GC (S)	All	NDPs: 0 Tests: 12					
			X	X	X	X	X



SDG:	150714-45	Location:	Coed Darcy	Order Number:	CD1288
Job:	H_ATKINS_LDC-403	Customer:	Atkins Global Ltd	Report Number:	322015
Client Reference:	MP59 pipes and RBSL	Attention:	Barney Irlam	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
11709268	Conc Pipe nr ip2226	1.50	Green	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
11709285	Pipe A (nr DV)_1	1.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11709288	Pipe A (nr DV)_2	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11709291	Pipe A (nr DV)_3	1.00	Dark Brown	Clay	<0.063 mm	Stones	None
11709295	Pipe A (nr DV)_4	1.00	Dark Brown	Silty Clay	<0.063 mm	Stones	Vegetation
11709300	Pipe A (nr DV)_5	1.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Coal fragments	Stones
11709303	Pipe B (nr DV)_1	1.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
11709306	Pipe C (nr DV)_1	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Coal fragments
11709278	TPE996_E	2.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
11709310	TPE996_N	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
11709275	TPE996_S	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	None
11709282	TPE996_W	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	None

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

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

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CERTIFICATE OF ANALYSIS

SDG: 150714-45
Job: H_ATKINS_LDC-403
Client Reference: MP59 pipes and RBSL

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1288
Report Number: 322015
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		Conc Pipe nr ip	Pipe A (nr DV)_	Pipe A (nr DV)_	Pipe A (nr DV)_	Pipe A (nr DV)_	Pipe A (nr DV)_
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		2226	1	2	3	4	5
M	mCERTS accredited.				1.50	1.00	1.00	1.00	1.00	1.00
aq	Aqueous / settled sample.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.				13/07/2015	13/07/2015	13/07/2015	13/07/2015	13/07/2015	13/07/2015
tot.unfilt	Total / unfiltered sample.				14/07/2015	14/07/2015	14/07/2015	14/07/2015	14/07/2015	14/07/2015
*	Subcontracted test.				150714-45	150714-45	150714-45	150714-45	150714-45	150714-45
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				11709268	11709285	11709288	11709291	11709295	11709300
(F)	Trigger breach confirmed									
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			79	72	101	74	73	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			3800	766	<176	3080	<176	<176
					M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<20	<20	<20	<20	<20	<20
					M	M	M	M	M	M
Benzene	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
					M	M	M	M	M	M
Toluene	<2 µg/kg	TM089			<8	<8	<8	<8	<8	<8
					M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089			<12	<12	<12	<12	<12	<12
					M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089			<24	<24	<24	51.7	<24	<24
					M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089			<12	<12	<12	<12	<12	<12
					M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			<9	<9	<9	51.7	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089			<24	<24	<24	51.7	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089			<40	<40	<40	63	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089			275	62.7	<40	839	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089			720	179	<40	718	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089			1380	230	<40	556	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173			45300	38900	637	939	<100	7990
Aliphatics >C16-C21	<100 µg/kg	TM173			76500	166000	10100	5460	4550	56500
Aliphatics >C21-C35	<100 µg/kg	TM173			41200	454000	40600	14100	22200	90200
Aliphatics >C35-C44	<100 µg/kg	TM173			2030	431000	13000	4550	10200	13900
Total Aliphatics >C12-C44	<100 µg/kg	TM173			165000	1090000	64300	25100	36900	169000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089			<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089			480	119	<40	530	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089			922	152	<40	370	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173			34300	15700	1230	1160	2350	5330
Aromatics >EC16-EC21	<100 µg/kg	TM173			47700	97100	5960	6120	14000	42200
Aromatics >EC21-EC35	<100 µg/kg	TM173			35200	553000	41500	36100	70000	230000
Aromatics >EC35-EC44	<100 µg/kg	TM173			15200	326000	24300	15000	31300	93200
Aromatics >EC40-EC44	<100 µg/kg	TM173			6660	121000	10700	5600	11200	32600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			132000	992000	73000	58300	118000	371000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			301000	2080000	137000	86500	155000	540000



CERTIFICATE OF ANALYSIS

SDG: 150714-45
Job: H_ATKINS_LDC-403
Client Reference: MP59 pipes and RBSL

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1288
Report Number: 322015
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	Pipe B (nr DV)_ 1	Pipe C (nr DV)_ 1	TPE996_E	TPE996_N	TPE996_S	TPE996_W
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00	1.00	2.50	2.50	2.50	2.50
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.		13/07/2015	13/07/2015	13/07/2015	13/07/2015	13/07/2015	13/07/2015
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		14/07/2015	14/07/2015	14/07/2015	14/07/2015	14/07/2015	14/07/2015
(F)	Trigger breach confirmed		150714-45	150714-45	150714-45	150714-45	150714-45	150714-45
1-5&*\$@	Sample deviation (see appendix)		11709303	11709306	11709278	11709310	11709275	11709282
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	49	58		54	91	93
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	351	<176		742	3500	919
			M	M		M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
			M	M	M	M	M	M
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
			M	M	M	M	M	M
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
			M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
			M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9		<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24		<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40		<40	70.8	59.9
Aliphatics >C6-C8	<10 µg/kg	TM089	67.9	<40		110	157	155
Aliphatics >C8-C10	<10 µg/kg	TM089	56.2	<40		194	412	179
Aliphatics >C10-C12	<10 µg/kg	TM089	91.3	<40		168	1550	231
Aliphatics >C12-C16	<100 µg/kg	TM173	8940	1010	471	241000	<100	117000
Aliphatics >C16-C21	<100 µg/kg	TM173	54500	8240	1390	750000	<100	406000
Aliphatics >C21-C35	<100 µg/kg	TM173	255000	33000	736	1810000	<100	479000
Aliphatics >C35-C44	<100 µg/kg	TM173	86000	23400	3770	1030000	<100	92300
Total Aliphatics >C12-C44	<100 µg/kg	TM173	405000	65600	6370	3830000	<100	1090000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40		<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40		<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	44.5	<40		130	275	141
Aromatics >EC10-EC12	<10 µg/kg	TM089	60.8	<40		112	1030	153
Aromatics >EC12-EC16	<100 µg/kg	TM173	8860	2730	<100	49500	<100	63700
Aromatics >EC16-EC21	<100 µg/kg	TM173	58500	21100	1540	301000	<100	235000
Aromatics >EC21-EC35	<100 µg/kg	TM173	375000	98800	5390	993000	1060	361000
Aromatics >EC35-EC44	<100 µg/kg	TM173	192000	42800	1260	412000	1900	99400
Aromatics >EC40-EC44	<100 µg/kg	TM173	69400	16900	<100	169000	1260	39700
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	634000	165000	8180	1760000	2960	759000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1040000	231000	17700	5580000	6460	1850000



SDG:	150714-45	Location:	Coed Darcy	Order Number:	CD1288
Job:	H_ATKINS_LDC-403	Customer:	Atkins Global Ltd	Report Number:	322015
Client Reference:	MP59 pipes and RBSL	Attention:	Barney Irlam	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		

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



CERTIFICATE OF ANALYSIS

SDG:	150714-45	Location:	Coed Darcy	Order Number:	CD1288
Job:	H_ATKINS_LDC-403	Customer:	Atkins Global Ltd	Report Number:	322015
Client Reference:	MP59 pipes and RBSL	Attention:	Barney Irlam	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	11709268	11709285	11709288	11709291	11709295	11709300	11709303	11709306	11709278	11709310
Customer Sample Ref.	Conc Pipe nr lp 2226	Pipe A (nr DV)_ 1	Pipe A (nr DV)_ 2	Pipe A (nr DV)_ 3	Pipe A (nr DV)_ 4	Pipe A (nr DV)_ 5	Pipe B (nr DV)_ 1	Pipe C (nr DV)_ 1	TPE996_E	TPE996_N
AGS Ref.										
Depth	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID

EPH CWG (Aliphatic) GC (S)	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015
EPH CWG (Aromatic) GC (S)	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015	20-Jul-2015
GRO by GC-FID (S)	16-Jul-2015	21-Jul-2015	21-Jul-2015	16-Jul-2015	16-Jul-2015	22-Jul-2015	16-Jul-2015	21-Jul-2015	21-Jul-2015	21-Jul-2015
Sample description	14-Jul-2015	15-Jul-2015	14-Jul-2015	15-Jul-2015	15-Jul-2015	15-Jul-2015	15-Jul-2015	15-Jul-2015	15-Jul-2015	14-Jul-2015
Total Organic Carbon	22-Jul-2015									
TPH CWG GC (S)	20-Jul-2015	21-Jul-2015	21-Jul-2015	20-Jul-2015	20-Jul-2015	22-Jul-2015	20-Jul-2015	21-Jul-2015	21-Jul-2015	21-Jul-2015

Lab Sample No(s)	11709275	11709282
Customer Sample Ref.	TPE996_S	TPE996_W
AGS Ref.		
Depth	2.50	2.50
Type	SOLID	SOLID

EPH CWG (Aliphatic) GC (S)	20-Jul-2015	20-Jul-2015
EPH CWG (Aromatic) GC (S)	20-Jul-2015	20-Jul-2015
GRO by GC-FID (S)	21-Jul-2015	16-Jul-2015
Sample description	14-Jul-2015	14-Jul-2015
Total Organic Carbon	22-Jul-2015	
TPH CWG GC (S)	21-Jul-2015	20-Jul-2015



SDG: 150714-45
Job: H_ATKINS_LDC-403
Client Reference: MP59 pipes and RBSL

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Barney Irlam

Order Number: CD1288
Report Number: 322015
Superseded Report:

Appendix General

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

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

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

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

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

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

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

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

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

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

11. Results relate only to the items tested.

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

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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

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

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

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

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

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

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

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

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

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

Sample Deviations

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

Asbestos

Identification of Asbestos in Bulk Materials & Soils

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

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

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

Visual Estimation Of Fibre Content

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

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

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

Appendix E. Photosheet



Photograph 1 IP1739 – Black peat in excavation with no evidence of free product.



Photograph 2 IP2404 – No evidence of free product in excavation



Photograph 3 IP2501 – Part of pipe network encountered and removed from Monitor Phase 58



Photograph 4 TPE1175 – Part of pipe network encountered and removed from Monitor Phase 58



Photograph 5 TPE1254 – Part of pipe network encountered and removed from Monitor Phase 58

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Coed Darcy

Validation Report
Monitor Phase 68

St Modwen Developments Limited



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Glossary of Terms

Term	Meaning / Definition
CSM	Conceptual Site Model
RBSL	Risk Based Screening Level
ACM	Asbestos Containing Material
TPH	Total Petroleum Hydrocarbons
PAH	Polycyclic Aromatic Hydrocarbons
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
FFL	Finished Floor Level
mAOD	metres Above Ordnance Datum
RAP	Remedial Action Plan
VO	Visual/Olfactory Observations
BGL	Below Ground Level

1. Introduction

1.1. Background

Atkins Limited has been commissioned by St. Modwen Developments Ltd (St Modwen) to provide consultancy advice with regard to the redevelopment of the former Llandarcy Oil Refinery as Coed Darcy.

The purpose of this report is to provide data relating to Monitor Phase 68 to confirm the suitability of this area for redevelopment in line with the specific requirements of the S106 in order for St. Modwen to achieve sign off by the Monitor. For the purpose of Monitor sign off, this area proposed as Monitor Phase 68 is shown on Drawing 5041216-REM-DWG-1967.

This document represents an updated version of an earlier report and takes into account Monitor comments in RFI0149, dated 25th June 2015.

Based upon the current Masterplan, Monitor Phase 68 is shown as an area of proposed residential housing in the final development. Further to discussion with St. Modwen, however, the following assessment assumes a public open space end use for the western part of Monitor Phase 68 within the final development and a commercial end use for the eastern part of Monitor Phase 68, as shown on Drawing 5041216-REM-DWG-1967, in terms of comparison with the requirements of the S106.

In the absence of detailed information relating to any proposed layout and/or finished floor levels (FFL) across this area, the following assessment assumes that existing ground levels represent a depth of 1m below FFL for the purpose of comparison with the requirements of the S106.

1.2. Aims and Objectives

This report provides an overview of the site including information regarding the site setting, local geology and hydrogeology, identified contamination and discussion of remedial works undertaken, where required.

In the long term, it is anticipated that the suitability of remedial works will need to be reassessed once detailed development proposals for each area are defined. Planning Condition 44 of the Outline Planning Permission for the site (P2005/0393) requires that:

Prior to the submission of the first reserved matters application on each phase of development, notwithstanding the provisions of Condition 26, a phase specific remediation strategy focusing upon the remediation requirements of that area shall be submitted to and approved in writing by the Local Planning Authority. The submitted documents shall include the results from the site investigation and risk assessment; and using the above information a method statement shall be submitted detailing remediation measures and a detailed programme for the submission of verification reports upon completion of the remedial works confirming implementation of agreed measures, together with proposals for future monitoring and reporting. The approved details shall be fully implemented on site, in line with a schedule of works that shall form part of the details submitted to the Local Planning Authority for approval.

In line with the detailed information relating to historical and recent ground investigation and laboratory analysis for Monitor Phase 68 as provided in the following report, it is envisaged that this document would form part of any later planning submission for this part of the site in line with the requirements of Planning Condition 44.

1.3. Scope of Work

The scope of works includes:

- A review of all readily available information including geological, hydrogeological, historical site plans, Environment Agency and British Geological Society (BGS) records.

- A review of available historical maps relating to Monitor Phase 68 and adjacent areas;
- A review of historical (1998-2004) and recent (2014-2015) ground investigation information relating to Monitor Phase 68;
- Comparison of the available ground investigation information and laboratory data against the requirements of the S106, specific to the proposed end use for Monitor Phase 68.
- Details of any remedial works undertaken, and
- Details of all validation in order to confirm that the remedial works were successfully carried out and to demonstrate that this area is now suitable for use in line with the required criteria.

1.4. Soil Quality Assessment Standards

To maintain consistency of approach, the assessment standards for historic and recent data are those stated in the S106 Agreement for Coed Darcy. The visual and aesthetic classification system, as previously defined by BP within the S106, is provided as Table 1.1.

Atkins proposes to continue this system for the classification of all soils encountered aesthetic impact to aid assessment of each area in terms of the required remediation requirements. The assigned classifications for each strata are quoted on the trial pit logs for recent ground investigation by Atkins (refer to Section 5).

Table 1.1 – Scale of Aesthetic Criteria

Class	Visual	Olfactory
0	No visible staining of soil, no visible suspect ACM*.	No detectable odour on soil.
1	Occasional staining of soil, no visible suspect ACM*.	Faint odour on soil.
2	Frequent staining of soil.	Distinct but not strong odour on soil.
3	Occasional heavy staining of soil.	Strong odour on soil.
4	Heavy staining of soil.	Strong odour discernible in ambient air.
5	Visible hydrocarbon present.	Overwhelming odour.

* visible suspect ACM refers to asbestos containing material visible to the naked eye which a reasonable and prudent person used to managing asbestos may suspect to be asbestos-containing.

The S106 for the proposed development presents a series of Risk Based Screening levels (RBSLs). These levels are defined in the S106 as being the 'minimum base level standard' for redevelopment remediation works (Schedule 8, Part 2, Paragraph 2,5).

In order to update the assessment of contamination in line with current UK guidance, these RBSLs are also now supplemented by a series of Remedial Target Concentrations (RTCs) derived by Atkins (Atkins references: 5041216-REM-REP-000216 v3 and 5041216-REM-REP-000476 v1). A summary of the adopted thresholds for Monitor Phase 68 are presented in Appendix A.

Details of the required frequencies of testing, as stated within the S106, are presented in Section 7.

Compliance with the redevelopment remediation requirements stated within Schedule 8 of the S106 (refer to Section 4) form the basis for obtaining the relevant sign off from the Monitor.

1.5. Information Sources

Information reviewed as part of the following assessment has been obtained from the following sources:

- URS BP Llandarcy Refinery Desk Study 44382742/BRRP0001, July 2007
- URS Report FR1287 Final Factual Report for Ground Investigation, August 2005

- Section 106 Deed of Planning Obligations (Dewey & LeBoeuf report GNP/NJR/13773-2), February 2008.

1.6. Limitations

As previously indicated, this report has been prepared with the sole intention of providing sufficient information to enable St. Modwen to obtain Monitor sign off for Monitor Phase 68 in accordance with criteria set out in the Coed Darcy Section 106 Agreement. Whilst the report may be relevant for submission as part of a reserved matters planning application, additional reports and submissions will be required as part of any future plot development.

The investigation works undertaken and summarised within this report represent a sampling exercise to determine ground conditions, in line with the required methodology outlined within the S106. The proposed works were carried out predominantly to investigate contamination across this area and do not include a review of any geotechnical issues or constraints that may exist which would need to be taken into account as part of any proposed redevelopment.

In addition, it should be noted that ground and groundwater conditions can vary over time and between sampling points. Whilst this report provides information relating to the removal of identified pipework and below ground structures encountered during the works, unidentified pipework and/or structures may still exist in situ.

2. The Site

2.1. Location and Description

Monitor Phase 68 is an irregular-shaped area of land of approximately 8.2 ha (hectares) in size. This area is located in the north west of the former Llandarcy Oil Refinery. The extent of Monitor Phase 68 is shown on Drawing 5041216-REM-DWG-1767.

Monitor Phase 68 is characterised by a north sloping topography with an elevation of approximately 45 metres above Ordnance Datum (mAOD) along the south eastern boundary falling to approximately 20m AOD in the north western corner. Currently the site comprises vacant derelict land with local scrubby vegetation, local haul roads and scrap metal stockpiles. A pre works topographical survey of the area is presented as Drawing-ATK-DR-C-REM-2132.

Monitor Phase 68 has been cleared of aboveground infrastructure. The majority of the clearance was undertaken by BP prior to site handover. The bitumen plant which occupied the eastern area of the site remained operational following site purchase by St Modwen and was decommissioned and demolished to slab level by 2010.

A Japanese Knotweed treatment pad is currently located in the approximate centre of the Phase 68. Treatment of these materials is ongoing at the time of the writing.

Vacant former refinery land lies to the east and south of the Site. To the north, Monitor Phase 68 is bound by a site haul road, beyond which lies woodland, a railway, disused sidings and the South Site Reservoir. A site haul road also constrains Monitor Phase 68 to the south (Road 1), with further vacant ground beyond.

2.2. Historical Land Use

Construction of Llandarcy Oil refinery commenced in 1917 but was temporarily suspended during the war due to the lack of men and resources. Construction started again in 1919 with production beginning in 1921. The refinery was officially opened in 1922.

The purpose of the refinery was to produce motor spirit, kerosene, gas fuel oil, fuel residue and lubricating oil and wax from imported crude oil. Between the wars, the oil industry developed rapidly. By 1939, the refinery had little of the original plant in operation.

In the mid 1980's a number of rationalisations occurred with the closure of the refinery being formally announced in 1997.

Based upon the information in URS Report 44382742/BRRP0001, Monitor Phase 68 was historically occupied by rail sidings, the Bitumen Plant and Bitumen Cooling Bays in the north eastern part of the Phase, a Barrelling Plant in the west, a Lube Oil Pump House, a Rail Car Loading Depot and a Sulphur Despatch Unit in the north of the Phase.

Production in the bitumen plant began in the 1950s and involved associated bitumen cooling bays where bitumen was transported off site. The Barrelling Plant, where gasoline was barrelled into cans for transportation off site, was constructed pre-1940s, with decommissioning understood to have taken place in the 1960s.

2.3. Published Geology

A review of published geological information (BGS map 247, Swansea 1:50,000 scale) and BGS Geoindex (accessed at www.bgs.ac.uk/geoindex/) indicates Monitor Phase 68 to be underlain by:

- Till (Diamicton), a heterogeneous deposit of glacial origin, which extends across all of the area.
- Pennant Sandstone Formation, specifically the Hughes Member which is described by the BGS as *'green-grey, lithic arenites ("Pennant sandstones") with thin mudstone/siltstone and seatearth interbeds and mainly thin coals'*.

2.4. Hydrogeology and Hydrology

2.4.1. Groundwater

Environment Agency data suggests that the Till (Diamiction) underlying Monitor Phase 68 is classified as 'Unproductive Strata'. These are defined as:

'...rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.'

The underlying sandstone bedrock is classified as a 'Secondary A Aquifer'. This is defined as:

'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.'

Groundwater contours present in URS Report FR1287 suggest that groundwater flow within drift geology and bedrock is to the north and north west, consistent with the topography of the area.

2.4.2. Surface Waters

The closest significant water feature within the confines of the former refinery boundary is known as the South Site Reservoir, which is located approximately 40m to the north west of Monitor Phase 68. The North Site Reservoir lies approximately 150m to the north.

Crymlyn Bog Site of Special Scientific Interest, discussed further in section 2.8, is located approximately 60m to the west of Monitor Phase 68.

Various historic drains crossed the site many of which are now removed and redundant. Informal temporary drainage comprising shallow ditches cross parts of the site which transfer some surface flows to the north west and through the historic triangular separator and eventually through the Tal-y-fedw discharge point and eventually into the Crymlyn Bog.

2.5. Landfills and Waste Management Facilities

The Containment Area (see 2.4.2 above) has been previously used by BP for historical landfilling activities.

Atkins is currently in the process of remediating the landfill associated with the former Llandarcy Oil Refinery and are in ongoing discussion with Natural Resources Wales relating to the surrender of Environmental Permit No. EPR/AP3990LR.

2.6. Sensitive Land Uses

Crymlyn Bog SSSI, located 60m to the west of Monitor Phase 68, represents the most extensive area of lowland fen in Wales.

Crymlyn Bog SSSI is internationally important for its very wet mires often identified by an unstable 'quaking' surface. Bottle sedge and bogbean are important components of some stands, together with common cottongrass, water horsetail, star sedge, mud sedge, and in places, the nationally rare slender cottongrass. Crymlyn Bog supports the largest area of calcium-rich fen dominated by great fen sedge vegetation in south Wales. Some of these stands are dominated by great fen sedge, but other areas display a more diverse vegetation in which tufted-sedge, royal fern and a range of tall-herb fen species are prominent. Some of these stands are unique in a Welsh context. In addition there are areas of wet woodland with alder and willow being the dominant species (<http://www.ccg.gov.uk/landscape--wildlife>).

3. Historical Ground Investigation by URS

3.1. Recorded Ground Conditions

3.1.1. Introduction

A total of 79 historical exploratory holes are reported to have been excavated by URS within Monitor Phase 68 on behalf of the previous site owner, BP. The locations of known exploratory holes are presented on Drawing 5041216-REM-DWG-1969. In some cases more than one log has been provided for an exploratory hole location, such as when an inspection pit has been excavated prior to and separately from drilling of a borehole.

These exploratory holes were completed between 1998 and 2004 as part of a series of investigations across the former refinery (URS Report FR1287).

3.1.2. Ground Conditions Summary

Made Ground across Monitor Phase 68 is described to have been variable in composition, comprising clay, sand and gravel with anthropogenic inclusions of concrete, brick, bitumen, wood fragments, metal, ash, clinker, slag, slate tiles, and tarmac.

Superficial deposits of clay, silt and sand with occasional pockets of peat, are reported to have been generally underlain by an interpreted zone of weathered bedrock comprising sandstone gravel and cobbles.

Water strikes were recorded associated with both perched water in Made Ground and superficial deposits and groundwater in weathered or competent bedrock.

3.1.3. Soil and Groundwater Contamination

3.1.4. Visual and Olfactory Evidence of Contamination

In the vicinity of the former Railcar Loading Depot which was located in the south of Monitor Phase 68, slight to strong hydrocarbon odours were recorded and hydrocarbon staining and slight sheens were observed on arisings but no free product was identified.

The Lube Oil Pump House was located in the south west of Monitor Phase 68 and mild to strong hydrocarbon odours were recorded in this area. Hydrocarbon staining and slight sheens were observed on arisings but no free product was identified.

In the west of Monitor Phase 68 around the location of the former Barrelling Plant slight to strong hydrocarbon odours were recorded and free product was observed on a water seepage within superficial deposits.

The Sulphur Despatch Unit was located in the north of Monitor Phase 68 and slight to moderate hydrocarbon odours were reported in this area. A layer of solid black bitumen was encountered in trial pit WSTP009 from 0.60m to 0.75m bgl.

In the north east of Monitor Phase 68 in the location of the former Bitumen Plant slight to very strong hydrocarbon odours were recorded. Hydrocarbon staining and occasional sheens were observed and in trial pit MSTP203 black tarry fly ash was present between 0.35m and 0.75m bgl. Slight hydrocarbon odours were reported in the adjacent Bitumen Cut Back area.

In exploratory holes located outside of areas directly related to former processes or product storage the following notable contamination was reported:

- free product was identified on the surface of water in trial pit MSTP260 located close to the north western boundary of Monitor Phase 68;
- free product was recorded in superficial deposits in borehole WSMW005 located close to the north western boundary of Monitor Phase 68; and

- streaks of free product were identified on arisings within superficial deposits in WSMW083, located towards the central south of Monitor Phase 68.

3.1.5. Comparison with Risk Based Screening Levels

An exceedance for benzene was recorded in two samples from 2.20m and 3.00m depth in borehole WSMW083 located in the central south of Monitor Phase 68.

3.1.6. Exclusion Areas/Special Process Areas

Based upon the findings of previous assessment by URS, a series of 'Special Process Areas' were defined around the former refinery. These represent areas of potentially increased contamination associated with historical activities or processes.

There are four designated Special Process Areas within Monitor Phase 68, comprising the former Barrelling Plant on the north western boundary of Monitor Phase 68, the Lube Oil Pump House, the Rail Car Loading Depot and an area of TPH contamination associated with the railhead.

The location and extent of the Special Process Areas are shown on Drawing 5041216-REM-DWG-1968.

4. Requirements under the S106

4.1. Section 106 Deed of Planning Obligations Requirements

4.1.1. Commercial Land Use

In line with ongoing discussions relating to Monitor Phase 68, the following assessment assumes that the north eastern part of this area, corresponding approximately with the location of the former Bitumen Plant, is proposed for a commercial end use within the final development (refer to Drawing 5041216-REM-DWG-1967).

The S106 only defines remediation requirements for a single commercial classification and this is based on a '**commercial end use where groundwater is in soil**' scenario. Following the review of available data, this is not considered to be applicable to Monitor Phase 68, beneath which the groundwater has been shown to lie predominantly within rock.

It is proposed, therefore, that the stated S106 requirements for a commercial end use where groundwater is in soil are adopted for the following assessment but that the depth of the remediation is defined by the surface of the underlying bedrock rather than being defined by the depth to seasonal groundwater.

Based upon this classification, the following remediation requirements are stated in the S106 (Schedule 8, Section 6.0) as being the minimum remediation requirements required in order to release this area for redevelopment for a commercial end use.

- *All oil saturated soils and soil containing free product other than minor sheens shall be removed to a minimum depth of 2.00m below FFL(Final Finished Level) or 0.50m below the likely lowest seasonal groundwater elevation following development of the intended Urban Village, whichever is the deeper. This depth is to be established by consideration of all available groundwater level monitoring data.*
- *All soils must meet the RBSL for TPH to at least 1m below FFL.*
- *All soils must meet in bulk, considering both dispersed fibres and pieces of ACM, the RBSL for ACM to at least 1m below FFL. Any visible ACM encountered during construction in the first 1m below FFL is to be removed.*
- *Where there is a risk of the migration in the ground of hazardous gas or contaminated liquid into remediated areas, the Developer shall take all appropriate measures to prevent this occurring. Such measures could include the installation of interception trenches and management of discharge from those. The Developer shall monitor whatever measures are put in place after their installation to continue to demonstrate their effectiveness.*
- *Where necessary, seeps, sheens and iron rich discharges from the bedrock must be controlled such that there is no visible discharge at surface and little or no odour. Acceptable methodologies for remediation may include, but are not limited to the use of land drainage via interceptors.*

As previously highlighted, in the absence of detailed information relating to finished floor levels associated with any proposed redevelopment of this area, the following assessment assumes that the current ground levels, shown on Drawing 5041216-ATK-DR-C-REM-2133, represent 1m below FFL.

4.1.2. Public Open Space

In line with ongoing discussions, the following assessment assumes that the remainder of Monitor Phase 68 is proposed for a Public Open Space end use within the final development (refer to Drawing 5041216-REM-DWG-1967).

The existing S106 does not provide specific details for remediation requirements for areas of proposed public open Space, but states the following:

The Developer shall remediate areas of Property which will not be developed for residential or commercial end-uses based on those areas falling into one of the following three broad categories of land-use:

- *Well managed parks and public gardens;*
- *More lightly managed areas where public access is encouraged;*
- *Areas to which access is discouraged but occasional access and/or trespassing is possible.*

It is considered that the proposed open space section of Monitor Phase 68 falls within the second category in which areas are lightly managed and public access will be encouraged.

In line with the absence of specific details relating to remediation requirements for proposed areas of open space, the S106 states the following with regard to the scope of remedial and/or mitigation works in these areas:

The degree of protection that will need to be afforded to people will be largely dependent upon how the access to these areas is encouraged/discouraged and managed. For guidance only, access may be discouraged by physical barriers such as fencing, or vegetation or actively managed by the provision of walkways along which controlled access is encouraged. The topography of the site may encourage children to use bikes, potentially causing rutting of the ground surface and exposing soils at depth. Detailed designs in this regard will be prepared by the Developer approved by CDL and agree with the Environmental Authorities to (i) protect human health considering the reasonably anticipatable use of the land (ii) achieve the relevant RBSLs (recreational RBSLs being provided in Table 1 above) to an appropriate depth and (iii) include an appropriate scheme of validation testing.

As previously highlighted, in the absence of detailed information relating to final finished levels associated with any proposed redevelopment of this area, the following assessment assumes that the current ground levels, shown on Drawing 5041216-ATK-DR-C-REM-2132, represent 1m below FFL.

4.2. Remedial Action Plan (RAP) Works

4.2.1. Background

As part of the closure of the former Llandarcy oil refinery an environmental closure plan was prepared for the site by URS. This plan included a program of remedial works designed to protect adjacent Controlled Water receptors from contaminants that may be present within the former refinery on the assumption that the former refinery remained un-remediated.

In line with the decision to redevelop the former refinery, the determined program of works was then subsequently incorporated as Remedial Action Plan (RAP) items as Schedule 7 of the S106 for the proposed redevelopment.

One of these items, RAP Feature 5, is shown to fall within the south western corner of Monitor Phase 68. The requirements for RAP Feature 5, as detailed in Schedule 7, Table 1, Part 1 of the S106, details the proposed installation of a permanent system to intercept and recover free product to prevent the migration of oil off-site.

The location of RAP feature 5, associated monitoring sumps, up-gradient boreholes and monitoring points are shown on drawing 5041216-DWG-RAP-864. Details of investigation and Atkins assessment relating to this feature are discussed in the following documents:

- Atkins report 5041216/RAP/RPT/770. Western Margin RAP Works Assessment Report, October 2012.
- Atkins Technical Note 5041216/RAP/TN/949, June 2013

4.2.2. Initial Investigation

Atkins Technical Note 949 indicates the following ground conditions to have been encountered during the initial ground investigation for the installation of RAP feature 5. The initial ground investigation is reported to have been undertaken in three phases from May to July in 2009.

- Trial pits MP501-505 targeted the approximate proposed location of RAP 5 trench. Trial pits MP506-512 were positioned along the railway line further to the west and south-west.
- Made Ground was absent in trial pits MP501-505 but was encountered in MP506-512. The Made Ground encountered comprised approximately 0.2m of coarse sandstone gravel underlain in turn by 0.1m of ashy material.
- Glacial Till was encountered at the surface in MP501-505 and was directly overlain by Made Ground in MP506-512. The thickness of Glacial Deposits was proven in two of the trial pits to extend to depths of 2.8m bgl (MP503) and 3m bgl (MP504) with both pits encountering sandstone bedrock at these depths. The base of the Made Ground was not proven in the remaining ten trial pits.
- Occasional hydrocarbon staining and some light odours were noted in all of the exploratory holes at depths ranging between 0.2m and 2.5m within Glacial Deposits. There was no recoverable free phase oil encountered within these trial pits.

Subsequent monitoring of these pits until 2010 is suggested to have reported a 'hydrocarbon sheen' within trial pits M506-508 and MP512. Free product is reported to have been encountered in MP507, from the base of the ashy Made Ground, on the first monitoring visit. During subsequent visits, however, only a hydrocarbon sheen was recorded in MP507. Ochreous discharges were recorded in MP506.

No evidence of either hydrocarbon or ochreous discharges were recorded in monitoring pits MP509-MP511.

4.2.3. Sump Installation and Monitoring

A total of 3No. 600mm HDPE slotted sumps (WMS14-16) were installed along the location of RAP feature 5 within the Made Ground (ash and clinker).

Groundwater within this area is indicated to have been 'very near to ground level' and evidence of ochreous groundwater discharges have been noted on surface water flow (see Drawing 5041216-REM-DWG-863).

Monitoring on the installed sumps recorded an 'ocherous/ metallic sheen' on the surface of the groundwater but no hydrocarbon sheen was recorded after April 2012 and no free phase product was reported after January 2011.

In order to complete the assessment, Atkins carried out monitoring of existing boreholes up-gradient of RAP feature 5 on two occasions. No free product was detected in any of the installations monitored.

4.2.4. Conclusion and Monitor Agreement

On the basis of their assessment, Atkins concluded that these works had 'achieved the requirements of the RAP in relation to the interception and removal of free phase hydrocarbons (RAP feature 5) as set out in the Section 106 Agreement for the Coed Darcy development'.

Monitor agreement for this RAP Item was obtained in May 2015 (URS 49310747/BRRP00055/Cert 17a).

5. Recent Ground Investigation by Atkins

5.1. Introduction

With the aim of supplementing and updating the historical investigation, a total of 397 machine excavated trial pits were undertaken across Monitor Phase 68 by Atkins between December 2014 and March 2015.

Environmental Scientifics Group (ESG) were employed by the client, St Modwen, to complete the works, under direction from Atkins. Trial pits were advanced to the maximum reach of the excavator, unless terminated on bedrock or obstructions or because of water ingress or collapse. All trial pits were backfilled with arisings in reverse order to which they were excavated, then compacted with the back of the excavator bucket. Excess arisings were left in a mound above the surrounding ground surface to allow for subsequent settlement.

Two serviceable historical boreholes, RFSW005 and WSMW005, located in the north east and north west of Monitor Phase 68 were sampled in January 2015. The logs for these boreholes suggest the installation response zones to be screened within superficial deposits.

The locations of the recent Atkins trial pits are shown on Drawing 5041216-REM-DWG-1970. Copies of all relevant exploratory hole logs for the recent investigation works by Atkins are presented in Appendix B.

During this stage of the investigation access was limited in certain areas due to the location of Japanese Knotweed treatment piles, an aggregate processing operation which occupied much of the eastern end of the site with plant and concrete stockpiles and an imported soil storage area in the far south of the phase. The additional investigation of these areas is discussed in Section 6.

5.2. Recorded Ground Conditions

Consistent with historical investigation, Made Ground encountered in the trial pits across Monitor Phase 68 was found to be variable in composition, comprising clay, silt, sand, gravel, cobbles and peat with anthropogenic inclusions of ash, brick, clinker, concrete, metal fragments and re-bar, plastic fragments, cables, slag, tarmac and wood fragments. Made Ground was encountered to a maximum depth of 5.10m bgl in trial pit TPE3570 located in the north of Monitor Phase 68, and to a depth of 5.0m in three other trial pits in this area.

Pipework was encountered in 20 locations across Monitor Phase 68 and is discussed further in Section 5.3.2.

Trial pits were terminated on concrete obstructions in 31 locations at depths ranging from ground level (in ten locations) to 1.80m depth.

Superficial deposits were generally encountered as glacial material comprising different matrices of clay, silt, sand, and sandstone and limestone gravel, with occasional to frequent sandstone cobbles and boulders. Dark brown fibrous peat was frequently encountered as discrete layers and pockets in Monitor Phase 68.

Sandstone bedrock was generally encountered beneath Monitor Phase 68 as a weathered zone comprising clayey silty sandy tabular sandstone gravel, cobbles and boulders. Trial pits were terminated on bedrock at 119 locations at depths ranging from 0.5m in TPE2465 in the south of Monitor Phase 68 to 4.8m in TPE3866 in the eastern extent of the Phase.

Seepages and water strikes were recorded in 91 locations both as perched water in Made Ground and superficial deposits, and as groundwater in weathered bedrock and resting on competent bedrock. Depths to water strikes ranged from 0.40 to 5.00m bgl and observations ranged from slight seepages to fast ingress which occasionally resulted in flooding. Some of the recorded water strikes were noted to be associated with redundant underground services.

The achieved frequency of investigation, based on the recent trial pitting, is discussed in Section 7.

5.3. Laboratory Analysis

A total of 976 soil samples representing identified soils from across Monitor Phase 68 were analysed by Alcontrol Laboratories for a general suite of contaminants considered appropriate for the former use of the area.

Due to the uncertainty over final floor levels, a generic suite comprising the majority of determinants listed in the RBSLs, was scheduled on all soil samples collected during the ground investigation. Due to the absence of any identified sources of historical solvent use within this area, no testing for volatile organic compounds was undertaken for this area.

Once determined, should final floor levels be proposed to lie at or below the current ground levels, the availability of this additional data will enable a reassessment of the relevant data without the need for further investigation and/or additional sampling.

The analytical suite comprised:

- Metals - arsenic, cadmium, chromium, selenium, copper, lead, nickel, mercury, vanadium, zinc (all samples);
- pH (all samples);
- Polycyclic Aromatic Hydrocarbons (all samples);
- Speciated Petroleum Hydrocarbons plus BTEX hydrocarbons (all samples);
- Soil Organic Matter (selected samples); and
- Asbestos screen and identification (samples within top 1m from existing ground level only, assuming that current levels represent 1m below FFL and the asbestos RBSL does not apply at depths greater than 2m below FFL in any land use scenario).

The groundwater samples collected from boreholes RFSW005 and WSMW005 were analysed for:

- Metals - arsenic, cadmium, chromium, hexavalent chromium, copper, lead, nickel, mercury, vanadium, zinc;
- pH;
- Polycyclic Aromatic Hydrocarbons; and
- Total Petroleum Hydrocarbons.

The achieved frequency of testing, based on the recent trial pitting, is discussed in Section 7.

5.4. Soil and Groundwater Contamination

5.4.1. Visual and Olfactory Evidence of Contamination

A review of the logs for the 397 trial pits recently excavated within Monitor Phase 68 shows that visual and/or olfactory evidence of contamination classified as 5 was identified in four locations. In two locations located in the approximate area of the former bitumen plant, TPE3378 and TPE3395, free product described as 'solidified oil' and interpreted as bitumen was encountered within Made Ground. In the other two locations, TPE3099 and TPE3376, frequent staining was observed. These locations do not correspond with the designated Special Process Areas.

Table 5.1 – Visual and Olfactory Evidence of Contamination

Trial Pit	Depth	Visual and Olfactory Evidence of Contamination
TPE3099	1.40-2.60m	VO 5,3 Frequently stained. Seepage with hydrocarbon staining
TPE3376	1.60-3.10m	VO 5,4 Frequently stained.

Trial Pit	Depth	Visual and Olfactory Evidence of Contamination
TPE3378	0.00-1.30m	VO 5,1 'Solidified oil'.
TPE3395	1.40-2.00m	VO 5,2 Occasional pockets of 'solidified oil'.

5.4.2. Comparison with Risk Based Screening Levels

No exceedances of the Commercial Risk Based Screening Levels (RBSL) for deep (>1m) soils were recorded in the eastern section of Monitor Phase 68. No exceedances of the Parks RBSL for deep (>1m) soils were recorded in the remaining area of Monitor Phase 68. The selected RBSLs were based on a 1% SOM which was considered to be most appropriate for the ground conditions encountered.

No exceedances of the RBSL for deep (>1m) groundwater in a commercial setting were recorded in the groundwater samples collected from boreholes RFSW005 and WSMW005.

No soils were removed from within Monitor Phase 61 as part of the trial pitting works.

A total of 363 samples underwent laboratory analysis for asbestos and loose asbestos fibres were detected during that analysis in 111 locations. The loose fibres were identified in microscopic analysis and visible ACM was not recorded during the ground investigation in any location in Monitor Phase 68. A 'white waxy material' was observed during excavation of TPE2890 located in the central north of Monitor Phase 68, and this material was logged by the engineer as 'possible asbestos'. Laboratory analysis for asbestos of the soil sample taken at 0.5m from TPE2890 identified the presence of chrysotile asbestos, and subsequent quantification analysis recorded a concentration of <0.001%.

As previously highlighted, the following assessment is based upon the assumption that existing ground levels across Monitor Phase 68 represent 1m below FFL for the purpose of comparison with the requirements of the S106. Based on this assumption, existing soils across this area would lie at depths greater than 1m within the final development.

In line with the adopted scenarios of public open space and 'commercial end use where groundwater is in soil' (refer to section 4), there are no permitted thresholds for asbestos at depths >1m below FFL. Soils are thus considered suitable for retention. However, the results of the investigation should be considered should there be further development of the site and appropriate measures taken to manage the residual risks posed by the asbestos content of the soil.

5.4.3. Relict Pipework

Relict pipework was encountered in 20 trial pits within Monitor Phase 68. The locations and depths of the identified pipework are summarised in Table 5.3.

Table 5.3 –Locations of pipework encountered in Monitor Phase 68

Trial Pit	Depth	Observations
TPE2478	2.40m	Metal pipe - 300mm diameter
TPE2479	0.40m	Water pipe
TPE2516	0.00m – 0.3m	Metal pipe - 300mm diameter
TPE2550	0.20m	Metal pipe – 150mm diameter (removed)
TPE2605	0.50m	Pipe
TPE2707	0.80m	Plastic pipe – 200mm diameter
TPE2760	0.00m – 1.00m	Metal water pipe (broken)
TPE2844	1.50m	Iron pipe
TPE2850	1.10m	Metal pipe – 150mm diameter
TPE2893	0.90m	Plastic pipe – 500mm diameter
TPE2938	0.30m	Metal pipe – 600mm diameter

Trial Pit	Depth	Observations
TPE3240	0.60m	Metal pipe – 50mm diameter
TPE3290	0.50m	Metal pipe – 200mm diameter
TPE3292	0.60m	Metal pipe – 200mm diameter
TPE3304	0.80m	Clay pipe in concrete
TPE3376	1.50m	Metal pipe – 300mm diameter (removed)
TPE3377	0.80m	Three metal pipes – 300mm diameter
TPE3393	1.00m	Concrete pipe – 600mm diameter
TPE3394	0.30m	Metal pipe – 500mm diameter
TPE3395	2.00m	Concrete pipe – 600mm diameter

Drawing 5041216-ATK-DR-C-REM-2135 presents the locations of VO criteria of Class 5, free product and relict pipework recorded within Monitor Phase 68.

6. Post Investigation Issues and Actions

6.1. Identified Issues

Recent trial pitting works across Monitor Phase 68 identified the following issues requiring further investigation and/or removal in order to meet with the requirements of the S106, as summarised in Section 4.

- Free product in soils;
- Elevated aesthetic criteria scores;
- Areas of low or no coverage from the recent ground investigation; and
- The presence of pipework identified in situ at 20 locations during the trial pitting.

It should be noted that identified concrete, or other structural remnants such as brickwork, was broken out and removed as part of the proposed remedial works across Monitor Phase 68 only if the presence of these materials prevented the delineation or excavation of identified contaminated material.

In the absence of a full 'turnover' of soils across Monitor Phase 68, the potential for remaining concrete/brickwork within this area exists. The removal of relict below ground structures from across this area although undertaken in many areas does not form a requirement of the S106 and is, therefore, outside of the scope of these works.

Areas which underwent additional investigation due to initial poor coverage are discussed, along with the results, in Sections 6.2 and 6.3.

Areas for additional investigation of pipe works and V/O exceedances are shown on Drawing 5041216-ATK-DR-C-REM-2135 and discussed in Section 6.4 and 6.5.

6.2. Follow-Up Ground Investigation – Southern Stockpile Area

The area formerly occupied by a stockpile of imported material in the extreme south of Phase 68 was investigated with a total of four additional trial pits excavated by Atkins during August 2015.

Trial pits were advanced until termination on bedrock. Trial pits were backfilled with arisings in the reverse order to which they were excavated, then compacted with the back of the excavator bucket unless there was a requirement to keep the excavations open to enable free product inspection and/or recovery. Excess arisings of backfilled trial pits were left in a mound above the surrounding ground surface to allow for subsequent settlement.

The locations of these recent Atkins trial pits are shown on 5041216-ATK-DR-C-REM-0002136. Copies of the relevant exploratory hole logs for these recent investigation works by Atkins are now included in Appendix B.

6.2.1. Recorded Ground Conditions

Made Ground was encountered in all four locations predominantly as sand with gravel, cobbles and occasional clay pockets and inclusions of wood, brick, plastic and ash at a maximum thickness of 1.3m in TPE2348.

Superficial deposits were encountered in all four trial pits as gravelly cobbly sand with occasional pockets of clay. Weathered Bedrock was recorded at the base of the excavations between depths of 4.70m bgl and 6.00m bgl.

Water strikes were not recorded in any of the four trial pits.

6.2.2. Laboratory Analysis

A total of 16 soil samples representing identified soils from across the area of investigation were submitted to Alcontrol Laboratories and analysed for a suite of contaminants considered appropriate for the former use of the area.

Consistent with the approach across the remainder of Monitor Phase 68, a generic suite comprising the majority of determinants listed in the RBSLs was scheduled on all soil samples collected during the ground investigation.

The analytical suite is listed in Section 5.3.

6.2.3. Soil and Groundwater Contamination

6.2.3.1. Visual and Olfactory Evidence of Contamination

A review of the logs for the four trial pits recently excavated within Monitor Phase 68 in the area formerly occupied by a stockpile of imported material has indicated that visual and/or olfactory evidence of hydrocarbon contamination was present in all four locations to a maximum of VO 4,4. Aesthetic criteria scores of 5 were not recorded, nor was free product encountered.

6.2.3.2. Comparison with Risk Based Screening Levels

In line with the proposed end use of this area as an area of Public Open Space, the results of laboratory analysis have been compared with the adopted chemical thresholds for deep soil (>1m) in a Parks land use. No exceedances of the adopted RBSL have been recorded.

Laboratory analytical results are presented in Appendix C.

No visible evidence of ACMs were reported during the ground investigation. A total of three samples underwent laboratory analysis for asbestos and asbestos fibres were detected during that analysis in all three samples, as summarised in Table 7.2.

As previously highlighted, the following assessment is based upon the assumption that existing ground levels across Monitor Phase 68 represent 1m below FFL for the purpose of comparison with the requirements of the S106. Based on this assumption, existing soils across this area would lie at depths greater than 1m within the final development.

In line with the adopted scenario of Public Open Space, there are no permitted thresholds for asbestos at depths >1m below FFL, however asbestos was not recorded above the detection limit.

Table 7.2 – Asbestos Detections in Follow-Up Ground Investigation

Location	Depth	Asbestos Detected	Comments	Quantity
TPE2339	0.50m	Chrysotile (white)	Loose fibres in soil	Trace
TPE2348	0.50m	Chrysotile (white)	Loose fibres in soil	Trace
TPE2375	0.50m	Chrysotile (white)	Loose fibres in soil	<0.001%

6.3. Follow Up Ground Investigation – Former Bitumen Plant

The area formerly occupied by the Bitumen Plant has now been investigated with a total of 38 additional trial pits excavated by Atkins during June and July 2015. Until recently this area was occupied by an aggregate processing yard and concrete stockpiles.

Prior to the additional trial pitting the majority of the concrete hardstanding and former tank bases were broken up and removed to stockpiles for aggregate recycling within the Coed Darcy site.

Trial pits were advanced until maximum extent of the excavator or trial pit collapse, generally when collapsed occurred it was in a layer of saturated sand or gravel. Trial pits were backfilled with arisings in the reverse order to which they were excavated, then compacted with the back of the excavator bucket unless there was a requirement to keep the excavations open to enable free product inspection and/or recovery. Excess arisings of backfilled trial pits were left in a mound above the surrounding ground surface to allow for subsequent settlement.

The locations of these recent Atkins trial pits are shown on 5041216-ATK-DR-C-REM-0002136. Copies of the relevant exploratory hole logs for these recent investigation works by Atkins are now included in Appendix B.

6.3.1. Recorded Ground Conditions

Made Ground was encountered in 27 of 38 locations as clay, gravel and sand with inclusions of brick, concrete, metal, reinforcing bar, wood, wire, plastic, sheeting, loose fragments of clay pipe, ash and clinker to depths ranging from 0.20m to 3.70m bgl.

Superficial deposits were encountered as clay, silt, sand and gravel in 32 of the 38 trial pits typically described as sand / clay / gravel with frequent inclusions of cobbles. Where superficial deposits were not encountered it was due to early termination of a trial pit in Made Ground.

Weathered bedrock was recorded at the base of the excavations in seven of the 38 trial pits.

Water strikes were recorded in 25 of the 38 trial pits, at depths ranging from 0.60m to 5.30m bgl in Made Ground, superficial deposits and in weathered bedrock.

6.3.2. Laboratory Analysis

A total of 158 soil samples representing identified soils from across the area of investigation were submitted to Alcontrol Laboratories and analysed for a suite of contaminants considered appropriate for the former use of the area.

Consistent with the approach across the remainder of Monitor Phase 68, a generic suite comprising the majority of determinants listed in the RBSLs, was scheduled on all soil samples collected during the ground investigation. In response to 'solvent-type' odours identified by the site engineer, laboratory analysis for volatile organic compounds was also undertaken on selected samples.

The analytical suite comprised:

- Metals - arsenic, cadmium, chromium, copper, lead, nickel, mercury, selenium, vanadium, zinc (all samples);
- pH (all samples);
- Polycyclic Aromatic Hydrocarbons (all samples);
- Speciated Total Petroleum Hydrocarbons plus BTEX hydrocarbons (all samples);
- Volatile Organic Compounds (selected samples in response to recorded 'solvent-type' odours);
- Semi-volatile Organic Compounds (selected samples in response to recorded 'solvent-type' odours);
- Soil Organic Matter (selected samples); and
- Asbestos screen and identification (samples within top 1m from existing ground level only, assuming that current levels represent 1m below FFL and the asbestos RBSL does not apply at depths greater than 2m below FFL in this land use scenario).

6.3.3. Soil and Groundwater Contamination

6.3.3.1. Visual and Olfactory Evidence of Contamination

A review of the logs for the 38 trial pits recently excavated within Monitor Phase 68 in the area formerly occupied by the Bitumen Plant has indicated that visual and/or olfactory evidence of hydrocarbon contamination classified as '5' and/or free product was present in nine locations, as summarised in Table 7.3 below.

Table 7.3 – Aesthetic Criteria Scores of VO 5 and Free Product Observations

Location	Depth (mbgl)	Observations
IP4150	0.50 – 0.80	VO 5,1. Bitumen layer – black, sticky solid material

Location	Depth (mbgl)	Observations
IP4151	1.50	Bitumen on groundwater
IP4159	0.80 – 1.75	VO 5,2 Black and brown bitumen
IP4165	1.50	Bitumen streaks on soil
IP4166	0.90 – 2.30	Bitumen on south side of pit
IP4168	0.50 – 1.40	VO 5,3 Patches of bitumen
IP4175	3.20	Oil ingress
IP4186	1.20	Black/brown water
IP4190	0.10	Pipe containing black oily material

6.3.3.2. Comparison with Risk Based Screening Levels

In line with the proposed commercial end use of this area, the results of laboratory analysis have been compared with the adopted chemical thresholds for deep soil (>1m) in a Commercial land use.

Three exceedances of the RBSLs were recorded, as summarised in Table 7.4.

Table 7.4 – RBSL Exceedances Recorded During Follow Up Ground Investigation

Location	Depth (m bgl)	Determinand	RBSL (µg/kg)	Concentration Detected (µg/kg)
IP4175	4.50	Benzene	5000	12,300
IP4177	0.50	Benzene	5000	5,470
	0.90	Benzene	5000	17,300

Laboratory analytical results are presented in Appendix C.

No visible evidence of ACMs were reported during the investigation of these areas. A total of 40 soil samples underwent laboratory analysis for asbestos and asbestos fibres were detected during that analysis in nine samples, as summarised in Table 7.5.

As previously highlighted, the following assessment is based upon the assumption that existing ground levels across Monitor Phase 68 represent 1m below FFL for the purpose of comparison with the requirements of the S106. Based on this assumption, existing soils across this area would lie at depths greater than 1m within the final development.

In line with the adopted scenario of Commercial (refer to section 6.1), there are no permitted thresholds for asbestos at depths >1m below FFL and soils are thus considered suitable for retention.

Table 7.5 - Summary of Asbestos Identified During Laboratory Analysis

Location	Depth (m bgl)	Type	Description	Quantity (%)
IP4153	0.30	Chrysotile (white)	Loose fibres in soil	0.0068
IP4158	0.30	Chrysotile (white)	Fibre bundles in soil	0.0233
IP4168	0.50	Chrysotile (white)	Loose fibres in soil	<0.001
IP4174	0.50	Amosite (brown)	-	<0.001
IP4176	0.50	Crocidolite (blue) Amosite (brown)	Soil containing fibre bundles and loose fibres	0.179
IP4185	0.50	Chrysotile (white)	-	0.0479
IP4186	0.50	Crocidolite (blue)	-	<0.001

Location	Depth (m bgl)	Type	Description	Quantity (%)
IP4190	0.50	Chrysotile (white)	Loose fibres in soil	0.0079
IP4191	0.50	Amosite (brown) Chrysotile (white)	-	0.0015

6.4. Further Investigation

The results of further investigations of the elevated aesthetic criteria scores identified in both Atkins original and follow up investigations is presented in Table 7.2.

Table 7.2 – Results of Further Investigation into Elevated Aesthetic Criteria Scores

Location	End Use	Initial Investigation Observations	RBSL Failures	Summary of Further Investigation	Validation
TPE2890	Public Open Space	White waxy material	None recorded in recent ground investigation	Small amount of substance, possible paraffin wax, found at the surface of original trial pit excavation. Substance removed. Refer to photograph 3 in Appendix E. Excavation carried out but no further substance identified in the ground.	No further action proposed.
TPE3099	Public Open Space	VO 5,3 Frequently stained. Seepage with hydrocarbon staining	None recorded in recent ground investigation	Excavated to 4.5m bgl. Seepage observed with strong odour but no free product identified.	No further action proposed.
TPE3376	Public Open Space	VO 5,4 Frequently stained.	None recorded in recent ground investigation	Abundant bitumen and metal pipe of 6" diameter encountered. Section of pipe removed and three validation samples taken. All visible bitumen excavated. Possible asbestos gaskets, roof tiles, wire and wool identified in excavation, samples taken of each for laboratory analysis. Refer to photograph 5 in Appendix E.	Laboratory analysis shows that gaskets are asbestos but the wire and wool are manufactured from a non-asbestos fibre. Refer to batch 150730-120 in Appendix D. Gaskets and roof tiles removed from excavation to on-site asbestos quarantine area. No RBSL exceedances in pipework validation samples. Refer to batch 150822-36 in Appendix D. No further action proposed.
TPE3378	Public Open Space	VO 5,1 'Solidified oil'.	None recorded in recent ground investigation	All visible bitumen removed. Refer to photograph 6 in Appendix E.	No further action proposed.
TPE3395	Public Open Space	VO 5,2 Occasional pockets of 'solidified oil'.	None recorded in recent ground investigation	All visible bitumen removed.	No further action proposed.

Location	End Use	Initial Investigation Observations	RBSL Failures	Summary of Further Investigation	Validation
IP4150	Commercial	Sticky bitumen	None recorded in recent ground investigation	Material containing malleable bitumen encountered near surface, area delineated and removed until no visible free product remained.	No validation samples taken, excavation validation based on absence of free product. No further action proposed.
IP4159	Commercial	Bitumen	None recorded in recent ground investigation	Rare glassy fine gravel-sized bitumen encountered.	No excavation and removal carried out owing to rare presence of glassy bitumen.
IP4168	Commercial	VO 5,3	None recorded in recent ground investigation	Removal of material with score of VO 5 resulting in excavation approximately 10m x 10m in size.	No validation samples taken, excavation validation based on absence of free product. No further action proposed.
IP4151	Commercial	Bitumen on GW	None recorded in recent ground investigation	No bitumen or oil observed on ingressing water.	No further action proposed.
IP4165	Commercial	Bitumen streaks	None recorded in recent ground investigation	No bitumen streaks identified in soil.	No further action proposed.
IP4166	Commercial	Seeping bitumen	None recorded in recent ground investigation	No seepage of bitumen encountered in excavation.	No further action proposed.
IP4175	Commercial	Oil ingress	None recorded in recent ground investigation	No water or free product encountered in exploratory excavations	No further action proposed.
IP4186	Commercial	Black water	None recorded in recent ground investigation	Ashy sediment observed on surface of ingressing water. No free product identified.	No further action proposed.

6.5. Pipework Removal

Pipework was encountered in situ in 20 trial pits during the ground investigation in Monitor Phase 68. Each of these locations was subject to further investigation, the results of which are summarised in Table 7.3. Pipework removal varied from recovery of discrete sections of broken redundant pipework to more substantial sections which were chased to ensure complete removal.

Table 7.3 – Results of Relict Pipework Investigation

Location	Results of Further Pipework Investigation	Validation
TPE2478	Water pipe of 16" diameter encountered and chased for approximately 100m. Strong odours noted at base of pipe with rare white waxy substance present.	Six validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. White waxy substance removed from excavation. No further action proposed following investigation.
TPE2479	Section of clay pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.

Location	Results of Further Pipework Investigation	Validation
TPE2516	Section of metal pipework encountered and removed. Refer to Photograph 1 in Appendix E.	Two validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.
TPE2550	No further investigation carried out, pipework removed from trial pit during ground investigation.	No further action proposed.
TPE2605	Plastic pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.
TPE2707	Plastic pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.
TPE2760	Plastic pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.
TPE2844	Metal pipe encountered and chased for approximately 60m. Refer to Photograph 2 in Appendix E.	Three validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150728-33 in Appendix D. No further action proposed following investigation.
TPE2850	No further investigation carried out – original trial pit located in close proximity to Japanese Knotweed treatment area and excavation beyond trial pit not possible.	No further action proposed.
TPE2893	Plastic pipe encountered and removed.	Three validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150722-99 in Appendix D. No further action proposed following investigation.
TPE2938	Pipe encountered associated with concrete structure.	Validation samples taken beneath pipe and structure but these were left in situ because of ongoing use by site Contractor. No RBSL exceedances recorded. Refer to batch 150822-36 in Appendix D. No further action proposed following investigation.
TPE3240	Section of metal pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150804-33 in Appendix D. No further action proposed following investigation.
TPE3290	Short section of pipe encountered and removed along with free phase bitumen surrounding pipework until no further free product visible. Refer to Photograph 4 in Appendix E.	No validation samples taken. No further action proposed following investigation.
TPE3292	No pipework encountered	No further action proposed following investigation.
TPE3304	Metal pipe encountered along with clay pipes.	Nine validation samples taken. No RBSL exceedances recorded. Refer to batches 150828-33 and 150724-95. No further action proposed following investigation.
TPE3376	No further investigation carried out, pipework removed from trial pit during ground investigation.	No further action proposed.
TPE3377	Section of metal pipe encountered and removed.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150804-33 in Appendix D. No further action proposed following investigation.
TPE3393	Concrete pipe and associated slab encountered and removed. Short sections of	

Location	Results of Further Pipework Investigation	Validation
TPE3394	clay pipes and metal pipes also encountered and removed. Free phase bitumen identified directly surrounding metal pipework – removed until no further visible free product.	Six validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batches 150804-33 and 150731-114 in Appendix D.
TPE3395		No further action proposed following investigation.
IP4178	No pipework encountered	No further action proposed following investigation.
IP4174	Two metal pipes encountered and chased out for approximately 20m.	Two validation samples taken following pipe removal. No RBSL exceedances recorded. Refer to batches 150909-45 and 150905-67 in Appendix D. No further action proposed following investigation.
IP4190	Section of ceramic pipe encountered and removed with hydrocarbon-impacted material directly surrounding pipe.	One validation sample taken following pipe removal. No RBSL exceedances recorded. Refer to batch 150909-48 in Appendix D. No further action proposed following investigation.
IP4191	Short section of pipework encountered and removed.	No validation samples taken. No further action proposed following investigation.

6.6. Hotspot Excavation

Approximately 255m³ material was excavated from the location of trial pit IP4177 in line with the recorded exceedance of the adopted RBSL for benzene at 0.50m and 0.90m depth. Trial pit IP4177 was excavated in the location of the former Bitumen Plant in the north east of Monitor Phase 68 and lies within the area of proposed commercial end use.

The excavation was advanced beyond the depth of the recorded failures and extended laterally by approximately 5m in all directions from the centre point of the trial pit location. As a guide, visual and olfactory evidence of contamination was used to assess whether the excavations needed to be extended further to achieve complete removal of the hotspot.

A total of eight validation samples were taken from the excavation faces of IP4177, two from each face, to comply with the 1 per 15m² frequency set out in the S106 and one validation sample was taken from the base of the excavation to comply with the 1 per 400m² frequency set out in the S106. Laboratory analytical results for the validation samples are included in Appendix D and confirm concentrations below the adopted RBSLs for deep soils (>1m below FFL) in a commercial end use.

Hydrocarbon-contaminated material excavated from Monitor Phase 68 was removed to the stockpile and processing area of the on-site soil treatment facility pending treatment.

Material has not been excavated from the location of IP4175 in which an exceedance of the RBSL for benzene was recorded. The exceedance was recorded in the sample taken from a depth of 4.50m bgl and the exceedance is constrained laterally and vertically by clean samples. In a commercial land use scenario at a depth of >1m below FFL this exceedance is not considered of significant magnitude or extent to warrant excavation. Depending on the nature of any final layout an additional assessment is required to confirm the findings of this assessment. .

A drawing showing the extent of the soils removed from within Monitor Phase 68 is presented as Drawing 5041216-ATK-DR-C-REM-2134. Topographical survey information for Monitor Phase 68 following completion of the remedial works is shown on Drawing 5041216-ATK-DR-C-REM-2133.

7. Validation

7.1. Requirements of the S106

The S106 (Schedule 8, Part 3, Section 8) sets out the requirements for validation testing which need to be complied with to enable Monitor sign off as part of the ongoing redevelopment of the former Llandarcy Oil Refinery. Details of relevant frequencies relating to Monitor Phase 68 are presented in Table 7.1. A commercial end use is proposed in the north eastern section of Monitor Phase 68, in the location of the former Bitumen Plant.

Table 7.1 - Minimum Validation Testing Frequencies - Commercial End Use

Testing for the Validation Suite ¹ at the following frequency:	Deeper Soils (Commercial >1m below FFL)
Imported quarried material	1 per 1000m ³ ex situ, composite of 5 regular sub-samples.
Imported soil from verified greenfield site	1 per 500m ³ ex situ, composite of 5 regular sub-samples.
Imported soil from characterised brownfield site ¹	1 per 100m ³ ex situ, composite of 5 regular sub-samples.
0.5-1m below FFL in-situ	Regular grid of 1 per 400m ² , sample over 0.5m depth.
>1m below FFL in-situ	Regular grid of 1 per 400m ² , sample over 0.5m depth.
Stockpiled excavated site materials for re-use	1 per 400m ³ ex situ, composite of 5 sub-samples.
Face of remedial excavations <1m deep	1 per 15m ² , minimum of 1 per face, worst case VO sample.
Face of remedial excavations >1m deep	1 per 15m ² , minimum of 1 per face, worst case VO sample.
Along redundant service excavations	1 per 20m of trench, worst case VO sample.
Soil treated ex-situ and homogenised	1 per 500m ³ ex situ, composite of 5 regular sub-samples.

¹ Validation suite to reflect prior use of the originating brownfield site and the design and purpose of the relevant area of Coed Darcy.

VO = visual/olfactory (i.e. aesthetic) observation

As previously stated, in the absence of any information relating to proposed development levels for this area, it has been assumed that current ground levels within Monitor Phase 68 (Drawing 5041216-ATK-DR-C-REM-2132) represents a level of 1m below FFL for the purpose of comparison with the S106.

7.2. Sampling Frequencies

7.2.1. Ground Investigation

The locations of all recent exploratory holes are shown on Drawing 5041216-REM-DWG-1970. Relevant exploratory logs are presented in Appendix B.

A total of 439 trial pits have been undertaken by ESG within Monitor Phase 68. A total of 1150 environmental samples from Monitor Phase 68 have been subject to laboratory analysis (refer to Appendix C).

Based on an approximate area of 80,200m², 439 trial pits equates to an approximate frequency of one pit per 183m². A total of 1150 samples equates to an approximate sample validation frequency of 1 test per 70m².

A total of 406 samples were screened for asbestos as part of this assessment. This equates to a testing frequency of one test per 198m².

All of these validation frequencies are greater than the adopted thresholds and S106 frequency (refer to Table 7.1) of 1 test per 400m² for in situ materials within an area of intended commercial end-use and are considered appropriate for an area of proposed Public Open Space end use.

7.3. Summary

A summary of the status of Monitor Phase 68, in line with the requirements of the S106 is presented in Table 7.4 below:

Table 7.4 – Validation Summary

Requirement	Status	Comment
Chemical quality of soils in situ	Complete	Trial pitting and sampling has been undertaken in Monitor Phase 68 to the S106 frequency for validation of soils in situ (refer to Section 7.2.1) and follow up investigation has provided additional coverage in areas not included in the recent ground investigation.
VO quality of soils in situ	Complete	Following localised removals a maximum recorded VO of 4 was recorded for retained soils in Monitor Phase 68. This is acceptable in line with the requirements of the S106 for 'deep' use (>1m below FFL) within commercial and Public Open Space areas.
Observations of groundwater for the presence of free phase product	Complete	Observed free product on ingressing water was investigated and significant free product was not found to be present in Monitor Phase 68.
Chemical and VO quality of imported material	N/A	No imported soils were utilised as part of the works.
Compliance with adopted thresholds	Complete	Remedial excavations have been carried out to remove material in the location of IP4177 which was shown to exceed the adopted thresholds (refer to Section 7.7). Validation samples from the excavations were taken in accordance with the required frequency and recorded concentrations are below the available RBSL. Remaining soils within Monitor Phase 68 are considered suitable for retention.
Removal of oil saturated soils	Complete	Removal of localised bitumen and possible paraffin wax has been undertaken in Monitor Phase 68.
Asbestos Assessment	Complete	Only highly localised visible ACM was identified during the ground investigation works. The assessment which has been carried out for both commercial and Public Open Space land use assumes a depth >1m below FFL, a scenario for which there is no RBSL. Soils in which asbestos was identified during laboratory analysis are therefore considered suitable for retention. Asbestos gaskets identified during further investigation at trial pit TPE3376 have been removed.

Requirement	Status	Comment
Control of seeps, sheens and iron staining from bedrock	N/A	No seeps, sheens or iron staining identified in Monitor Phase 68 which require control measures to prevent discharge at the surface.

8. Conclusion

Atkins has been commissioned by St Modwen Developments Ltd to undertake an assessment of an area of the former refinery with a view to enabling Monitor sign-off for this area in terms of a proposed commercial end use (north eastern area) and public open space (remaining area). For the purpose of Monitor Sign off, this area shall be referred to as Monitor Phase 68.

Based upon the findings of recent investigation and in line with the scope of recent remedial works undertaken, this area has been validated in accordance with the S106 and Monitor Phase 68 has been deemed to be suitable for commercial end use >1m bgl in line with the requirements of the S106.

It should be noted that recent ground investigation works focussed predominantly on contamination across this area and further assessment to assess potential geotechnical constraints within this Phase should be carried out prior to any proposed development. The investigation data including the identified levels of residual contamination, including asbestos content, should be taken account of during any redevelopment proposals including temporary earthworks.

Drawings

0 10 100
Millimetres

