	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH302
	Contract Number: G151311	Date Started: 09/06/2015	Date Completed: 09/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437556.3	Northing: 412202.8	Ground Level: 65.95m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Sheet 1 of 3 Scale: 1:50
Weather:	Rig Crew:	Termination:				

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			65.75	0.20		MADE GROUND - Concrete.		
				(1.80)		SAND and GRAVEL.		
			63.95	2.00		Brown SANDSTONE.		
				(7.00)				
			56.95	9.00		Grey SANDSTONE.		
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	12.00	PLAIN	50	15.00	2.00		0	0.00	
					12.00	18.00	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd	Borehole ID: BH302
	Contract Number: G151311	Date Started: 09/06/2015	Date Completed: 09/06/2015	Logged: IMC / Checked: AP / Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437556.3	Northing: 412202.8	Ground Level: 65.95m (OD)	Plant Used: Comacchio 602 / Print Date: 13/08/2015 / Scale: 1:50
Weather:	Rig Crew:	Termination:		Sheet 2 of 3

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(6.50)				
			50.45	15.50		Brown SANDSTONE.		
				(5.50)				
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	12.00	PLAIN	50	15.00	2.00		0	0.00	
					12.00	18.00	SLOTTED	50						

Contract Name:		Client:				Borehole ID:
Monckton Production Facility		Hargreaves Ltd c/o Patrick Parsons Ltd				BH302
Contract Number:	Date Started:	Date Completed:	Logged:	Checked:	Status:	Sheet 3 of 3
G151311	09/06/2015	09/06/2015	IMC	AP	PRELIM	
Rotary Open Hole Borehole Log	Easting: 437556.3	Northing: 412202.8	Ground Level: 65.95m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			44.95	21.00		Grey MUDSTONE.		
				(4.00)				
			40.95	25.00		End of Borehole at 25.000m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	12.00	PLAIN	50	15.00	2.00		0	0.00	
					12.00	18.00	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH303
	Contract Number: G151311	Date Started: 10/06/2015	Date Completed: 10/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437225.5	Northing: 412295.1	Ground Level: 60.96m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				Sheet 1 of 3

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(3.00)		MADE GROUND - Ash fill.		
			57.96	3.00				
				(1.50)		SAND and GRAVEL.		
			56.46	4.50				
				(7.70)		Brown SANDSTONE.		
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	9.00	PLAIN	50	12.00	4.50		0	0.00	
					9.00	15.00	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH303
	Contract Number: G151311	Date Started: 10/06/2015	Date Completed: 10/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437225.5	Northing: 412295.1	Ground Level: 60.96m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				Sheet 2 of 3

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			48.76	12.20		Grey SANDSTONE.		
				(6.30)				
			42.46	18.50		Grey MUDSTONE.		
						Continued next sheet		

11 12 13 14 15 16 17 18 19 20

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	9.00	PLAIN	50	12.00	4.50		0	0.00	
					9.00	15.00	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH303
	Contract Number: G151311	Date Started: 10/06/2015	Date Completed: 10/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437225.5	Northing: 412295.1	Ground Level: 60.96m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				Sheet 3 of 3

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(6.50)				
			35.96	25.00		End of Borehole at 25.000m		

Start & End of Shift Observations				
Date	Time	Depth (m)	Casing (m)	Water (m)

Borehole Diameter		Casing Diameter	
Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Remarks:
Drillers descriptions used.

Flush Information				
Top (m)	Base (m)	Flush Type	Return	Flush Colour

Installation			
Top (m)	Base (m)	Type	Dia (mm)
0.00	9.00	PLAIN	50
9.00	15.00	SLOTTED	50

Water Strike					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
12.00	4.50		0	0.00	

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH304
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437373.9	Northing: 412054.7	Ground Level: 65.51m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Sheet 1 of 2 Scale: 1:50
Weather:	Rig Crew:	Termination:				

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(1.50)		MADE GROUND - Ash fill.		
			64.01	1.50		Brown SANDSTONE.		
				(5.00)				
			59.01	6.50		Brown MUDSTONE.		
				(1.50)				
			57.51	8.00		Brown SANDSTONE.		
				(4.00)				
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.50	PLAIN	50	4.00	1.50		0	0.00	
					1.50	6.50	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH304
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437373.9	Northing: 412054.7	Ground Level: 65.51m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				Sheet 2 of 2

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			53.51	12.00		End of Borehole at 12.000m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	1.50	PLAIN	50	4.00	1.50		0	0.00	
					1.50	6.50	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd				Borehole ID: BH305
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 3
Rotary Open Hole Borehole Log	Easting: 437527.9	Northing: 411930.3	Ground Level: 70.37m (OD)	Plant Used: Comacchio 602		Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:					

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			70.07	(0.30) 0.30		MADE GROUND - Concrete.		
				(1.70)		SAND and GRAVEL.		
			68.37	2.00		Brown SANDSTONE.		
				(7.00)				
			61.37	9.00		Grey MUDSTONE.		
				(1.30)				
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	22.00	PLAIN	50	25.00	2.00		0	0.00	
					22.00	30.00	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH305
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM
Rotary Open Hole Borehole Log	Easting: 437527.9	Northing: 411930.3	Ground Level: 70.37m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:				Sheet 2 of 3

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			60.07	10.30		Grey SANDSTONE.		
				(2.20)				
			57.87	12.50		Brown SANDSTONE.		
				(2.50)				
			55.37	15.00		Grey MUDSTONE.		
				(10.00)				
						Continued next sheet		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	22.00	PLAIN	50	25.00	2.00		0	0.00	
					22.00	30.00	SLOTTED	50						

	Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH305
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 3 of 3
Rotary Open Hole Borehole Log	Easting: 437527.9	Northing: 411930.3	Ground Level: 70.37m (OD)	Plant Used: Comacchio 602		Print Date: 13/08/2015	Scale: 1:50
Weather:	Rig Crew:	Termination:					

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			45.37	25.00		Grey SANDSTONE.		
			40.37	(5.00) 30.00		End of Borehole at 30.000m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	22.00	PLAIN	50	25.00	2.00		0	0.00	
					22.00	30.00	SLOTTED	50						

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
WS20-01
Sheet 1 of 1

Location Details:	Stockyard		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	PID	PID=0	0.05			MADE GROUND: Gravelly SAND, comprising orange / brown, loose fill or sub angular to sub rounded medium gravels.
					0.30			MADE GROUND: Brown/ black, gravelly sandy SILT comparing poorly sorted gravels of brick, concrete, shale with sand sized coal in a silty matrix. Medium dense.
		0.80	PID	PID=0				MADE GROUND: Brown, gravelly sandy SILT. Gravels comprise poorly sorted brick, tile, concrete, sandstone in a silty matrix. Occasional coal gravels. Medium dense. Gravel are coarse to fine
		1.60	PID	PID=0	1.50			MUDSTONE: Weathered grey / brown, fissile and laminar MUDSTONE, becoming competent from 1.7m.
					1.70			End of Borehole at 1.70m

Remarks

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Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-02A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Stockyard Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	PID	PID=0	0.80			MADE GROUND: Dark brown, medium dense silty, sandy GRAVEL of fine to coarse brick, mudstone and coal, becoming siltier with depth. End on obstruction in Made ground. End of Borehole at 0.80m

1 2 3 4 5 6 7 8 9 10

Remarks

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-02B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Stockyard Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					1.00			POOR RETURNS. Liner pushed into barrel. Likely made ground.
		1.10	PID	PID=0	1.10			MADE GROUND: Loose, gravelly sandy SILT with frequency fine to coarse gravels of brick and mudstone.
					1.30			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
		1.50	PID	PID=0	1.50			CLAY: Grey / brown, slightly sandy, slightly gravelly CLAY. Firm. Gravels of medium to coarse mudstone, and fine to medium coal.
					1.60			MUDSTONE: Weathered grey / brown, fissile and laminar MUDSTONE.
								End of Borehole at 1.60m

Remarks

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
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Borehole Log

Borehole No.
WS20-03
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Stockyard Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	PID	PID=0	0.15			MADE GROUND: Grey / black crush of coarse limestone GRAVEL in a sandy, silt matrix. Loose.
					0.25			MADE GROUND: Loose crush of concrete and brick in a black sand matrix. Coarse to fine gravels with occasional coarse cobbles of brick.
		0.80	PID	PID=0	0.35			MADE GROUND: Coarse to medium GRAVEL of crushed brick. Loose.
					0.90			MADE GROUND: Black gravelly SAND (Breeze). Gravels comprise concrete, brick and fine coal in a matrix of sand sized coal dust. Occasional rootlets. Dense.
		1.30	PID	PID=0	1.00			MADE GROUND: Coarse to medium GRAVEL of crushed brick. Loose.
		1.80	PID	PID=0	1.30			MADE GROUND: Red / brown, gravelly, sandy CLAY Firm. Gravels are fine to medium grained coal, brick and sandstone.
		2.20	PID	PID=0	2.10			CLAY: Orange / grey mottled slightly sandy, slightly gravelly CLAY. Firm. Gravels of medium to coarse ironstone. Sands comprise coal. Poorly consolidated.
		2.70	PID	PID=0	2.30			GRAVEL: Weathered mudstone and coal GRAVEL. Very soft and fissile. Loose. Damp
		3.30	PID	PID=0				CLAY: Light brown with orange mottling, slightly gravelly CLAY. Firm. Gravels of medium to fine coal. Rare rootlets. Cobble of sandstone at 2.8m. Becoming firm to stiff and grey brown in colour
		3.80	PID	PID=0	4.00			End of Borehole at 4.00m

Remarks

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Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-04
Sheet 1 of 1

Location Details:	Stockyard		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	PID	PID=1	0.35			MADE GROUND: Black gravelly SAND (Breeze). Gravels comprise medium to fine coal in a matrix of sand sized coal dust. Inclusions of reworked clays.
		0.80	PID	PID=0	0.50			MADE GROUND: Fine to coarse grained GRAVEL of angular concrete and rare cobbles, in a sandy matrix of coal.
		1.30	PID	PID=0	1.10			MADE GROUND: Black / red gravelly SAND, . Gravels comprise a fine to coarse weathered brick, concrete and sandstone with occasional brick cobbles, sand of brick and coal dust. Poorly consolidated.
		1.80	PID	PID=0				MADE GROUND: Brown/ grey, gravelly sandy SILT comparing poorly sorted gravels of brick, coal, weathered mudstone. Poorly consolidated. Dry.
		2.20	PID	PID=0	2.10			SILT: Brown, slightly sandy SILT with occasional cobbles of weathered sandstone.
		2.90	PID	PID=0	2.80			GRAVEL: Weathered Sandstone.
					3.00			End of Borehole at 3.00m

Remarks

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Sunny Bank Mills
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0113 257 5397

Borehole Log

Borehole No.
WS20-5A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Production Area Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.80	PID	PID=0	0.20			MADE GROUND: Loose GRAVEL of coarse – medium grained concrete in a matrix of coal dust. Occasional reinforcing present.
					0.35			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
					0.40			MADE GROUND: Black sandy SILT.
					0.60			MADE GROUND. COBBLES of brick.
					0.90			MADE GROUND: Blue stained, grey sandy, gravelly CLAY with gravels of brick and concrete. Medium to coarse grained gravels.
								End of Borehole at 0.90m

Remarks

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
WS20-5B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 04/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.20			MADE GROUND: Loose GRAVEL of coarse – medium grained concrete in a matrix of coal dust. Occasional reinforcing present.
					0.35			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
					0.40			MADE GROUND: Black sandy SILT.
					0.60			MADE GROUND. COBBLES of brick.
					0.70			MADE GROUND: Blue stained, grey sandy, gravelly CLAY with gravels of brick and concrete. Medium to coarse grained gravels.
					1.00			CLAY: Grey / yellow, slightly sandy, slightly gravelly CLAY. Firm. Gravels of medium to coarse sandstone.
								End of Borehole at 1.00m

Remarks

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
WS20-5C
Sheet 1 of 1

Location Details:	Production Area		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:	Hole Type WS
Location:	Lund Hill Lane, Royston		Level:	Scale 1:50
Client:	Monckton Developments Limited		Dates: 04/05/2020	Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	PID	PID=0	0.10			MADE GROUND: Loose, grey / white GRAVEL of crushed concrete in a sandy matrix.
					0.45			MADE GROUND: Black / brown, medium dense silty, sandy GRAVEL of fine to coarse brick and medium grained sandstone. in a coal dust matrix.
		0.80	PID	PID=0	0.55 0.75			MADE GROUND: COBBLES of concrete.
								MADE GROUND: Gravelly SAND, comprising orange / brown, loose fill or sub angular to sub rounded medium gravels of coal and brick.
		1.40	PID	PID=0	1.30			MADE GROUND: COBBLES of brick and concrete in a sandy gravel matrix. Loose, gravels of brick, concrete and clinker.
		1.80	PID	PID=0	1.50			MADE GROUND: Yellow sandy GRAVEL of weathered sandstone, coarse to fine in a sandy matrix.
					2.00			MADE GROUND: Reworked, orange / brown CLAQY, sandy gravels with cobbles of brick and gravels of sandstone and brick.
					2.40			SANDSTONE. Weathered becoming competent.
								End of Borehole at 2.40m

Remarks

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-6A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Production Area Project No. 1015	Hole Type WS
Location:	Lund Hill Lane, Royston	Co-ords: Level:	Scale 1:50
Client:	Monckton Developments Limited	Dates: 04/05/2020	Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.40	PID	PID=0	0.40			MADE GROUND: Black gravelly SAND (Breeze). Gravels comprise medium to fine coal in a matrix of sand sized coal dust.
					1.40			GRAVEL: Yellow sandy gravel of weathered SANDSTONE. End of Borehole at 1.40m

Remarks

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Borehole Log

Borehole No.
WS20-6B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston	Location Details:	Production Area
Client:	Monckton Developments Limited	Dates:	04/05/2020

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	PID	PID=0	0.40			MADE GROUND: Black gravelly SAND (Breeze). Gravels comprise medium to fine coal in a matrix of sand sized coal dust.
		0.50	PID	PID=0				MADE GROUND: Grey / yellow gravelly SAND of weathered Sandstone, with occasional coal inclusions. Brick cobble at 1.8m.
		1.30	PID	PID=0				
		1.80	PID	PID=0	1.90			GRAVEL: Yellow sandy gravel of weathered SANDSTONE
					2.40			End of Borehole at 2.40m

Remarks

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Borehole Log

Borehole No.
WS20-07A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Project No. 1015	Production Area / Co-ords:
Location:	Lund Hill Lane, Royston	Level:	Hole Type: WS
Client:	Monckton Developments Limited	Dates: 05/05/2020	Scale: 1:50
			Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.80	PID	PID=0	0.50			MADE GROUND: Dark brown, loose, silty, sandy GRAVEL of fine to coarse concrete, with occasional and cobbles. Coarse to fine grained mudstone.
					1.00			MADE GROUND: Black / brown, medium dense silty, sandy GRAVEL of fine to coarse brick, mudstone and coal in a silty matrix.
								End of Borehole at 1.00m

Remarks

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Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-7B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	PID	PID=8	0.15			MADE GROUND: Gravelly SAND, comprising orange / brown, with roots and grasses on surface/ Gravels of med- fine grained concrete in a fine silty sand matrix.
		0.40	PID	PID=100	0.35			MADE GROUND: Black sandy GRAVEL. Gravels are fine to coarse with cobbles of slag. Strong tar odour and stain. Loose.
					0.60			MADE GROUND: Brown/ black, gravelly sandy SILT comparing poorly sorted gravels of brick, coal, slag and concrete. Rare glass. Medium dense.
					1.00			GRAVEL: Yellow sandy gravel of weathered SANDSTONE
								End of Borehole at 1.00m

Remarks

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Borehole Log

Borehole No.
WS20-7C
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	PID	PID=202	0.15			MADE GROUND: Gravelly SAND, comprising orange / brown, with roots and grasses on surface. Gravels of med- fine grained concrete in a fine silty sand matrix. Loose.
		0.60	PID	PID=7	0.50			MADE GROUND: Brown/ black, gravelly sandy SILT comparing poorly sorted gravels of brick, sandstone and mudstone. Much tar within matrix.
		0.80	PID	PID=18	0.90			MADE GROUND: Reworked , black / brown gravelly SAND. Tar present as sticky, waxy product on surface of sandstone gravels and cobbles.
					1.40			SANDSTONE: Weathered SANDSTONE tar stain and odour on surface to 1.0m.
								End of Borehole at 1.40m

Remarks

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-8A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Project No. 1015	Production Area / Co-ords:
Location:	Lund Hill Lane, Royston	Level:	Hole Type: WS / Scale: 1:50
Client:	Monckton Developments Limited	Dates: 05/05/2020	Logged By

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.40			MADE GROUND: Black, sandy GRAVEL of medium grained concrete, coke and slag in a loose silty matrix.
					0.60			GRAVEL: Yellow sandy gravel of weathered SANDSTONE. Becoming competent.
								End of Borehole at 0.60m

Remarks

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Borehole Log

Borehole No.
WS20-8B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.15			MADE GROUND: Black, sandy GRAVEL of medium grained concrete, coke and slag in a loose silty matrix.
					0.50			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
					0.60			MADE GROUND: Concrete.
								End of Borehole at 0.60m

Remarks

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Borehole Log

Borehole No.
WS20-8C
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Project No. 1015	Production Area / Co-ords:
Location:	Lund Hill Lane, Royston	Level:	Hole Type: WS / Scale: 1:50
Client:	Monckton Developments Limited	Dates: 05/05/2020	Logged By

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.15			MADE GROUND: Black, sandy GRAVEL of medium grained concrete, coke and slag in a loose silty matrix.
					0.50			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
					0.60			MADE GROUND: Concrete.
								End of Borehole at 0.60m

1 2 3 4 5 6 7 8 9 10

Remarks

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Borehole Log

Borehole No.
WS20-8D
Sheet 1 of 1

Project Name:	Monckton Coking Works	Location Details: Project No. 1015	Production Area / Co-ords:
Location:	Lund Hill Lane, Royston	Level:	Hole Type: WS
Client:	Monckton Developments Limited	Dates: 05/05/2020	Scale: 1:50
			Logged By

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.15			MADE GROUND: Black, sandy GRAVEL of medium grained concrete, coke and slag in a loose silty matrix.
					0.50			MADE GROUND: Orange red GRAVEL of fine to coarse brick in a matrix of brick sand.
					0.60			MADE GROUND: Concrete.
								End of Borehole at 0.60m

Remarks

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Borehole Log

Borehole No.
WS20-9A
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	PID	PID=1	0.05			MADE GROUND: Topsoil, organic rich, sandy gravelly SILT. with frequent rootlets.
								MADE GROUND: Light brown, loose, gravelly SAND of coarse to fine sandstone with occasional weathered sandstone cobbles.
		0.80	PID	PID=1	0.80			MADE GROUND: Orange / brown, loose slightly gravelly SAND. Sands are coarse to fine grained with fine rounded gravels.
					1.00			SANDSTONE. Yellow / light brown, competent SANDSTONE.
					1.20			End of Borehole at 1.20m

Remarks

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Borehole Log

Borehole No.
WS20-9B
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.05			MADE GROUND: Topsoil, organic rich, sandy gravelly SILT. with frequent rootlets.
								MADE GROUND: Light brown, loose, gravelly SAND of coarse to fine sandstone with occasional weathered sandstone cobbles.
					0.80			MADE GROUND: Orange / brown, loose slightly gravelly SAND. Sands are coarse to fine grained with fine rounded gravels.
					1.00			SANDSTONE. Yellow / light brown, competent SANDSTONE.
					1.20			End of Borehole at 1.20m

Remarks

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-9C
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Hole Type WS
Location:	Lund Hill Lane, Royston	Level:	Scale 1:50
Client:	Monckton Developments Limited	Dates: 05/05/2020	Logged By

Location Details: Production Area

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.40	PID	PID=1	0.10			MADE GROUND: White / grey sandy GRAVEL crush of limestone.
					0.50			MADE GROUND: Brown / black, loose, gravelly sandy SILT. Gravels of coal and weathered sandstone/ SANDSTONE. Yellow / light brown, competent SANDSTONE.
					0.60			End of Borehole at 0.60m

Remarks

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Borehole Log

Borehole No.
WS20-9D
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS

Scale: 1:50

Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.10			MADE GROUND: White / grey sandy GRAVEL crush of limestone.
					0.40			MADE GROUND: Brown / black, loose, gravelly sandy SILT. Gravels of coal and weathered sandstone/ SANDSTONE. Yellow / light brown, competent SANDSTONE.
					0.50			End of Borehole at 0.50m

Remarks

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Sunny Bank Mills
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Borehole Log

Borehole No.
WS20-9E
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: Production Area

Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.40	PID	PID=0	0.05			MADE GROUND: Organic rich topsoil of sandy GRAVEL in a silty matrix. Gravels are of sandstone. Loose.
		0.80	PID	PID=0	0.70			GRAVEL: Brown / grey sandy GRAVEL of coarse to fine sandstone. Loose.
								GRAVEL. Black / brown coarse to fine sandy GRAVEL. Gravels comprise weathered sandstone and coal. Loose. Becoming competent sandstone from 1.2m .
					1.90			End of Borehole at 1.90m

Remarks

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Borehole Log

Borehole No.
WS20-10
Sheet 1 of 1

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates: 05/05/2020

Location Details: South Area
Hole Type: WS
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.05			MADE GROUND: Grey sandy SILT topsoil, with frequent rootlets and high organic content.
		0.30	PID	PID=0	0.20			MADE GROUND: White / grey loose, sandy GRAVEL of crushed concrete, coarse to fine grained.
		0.80	PID	PID=0	0.60			MADE GROUND: Reworked brown sandy, gravelly SILT. Gravels comprise coarse to fine grained brick and sandstone with occasional cobbles of sandstone. rare pottery fragments noted.
		1.40	PID	PID=0	1.40			SILT: Brown, slightly sandy, slightly gravelly SILT. Medium dense. Gravels of fine to medium size.
		1.80	PID	PID=0	1.70			GRAVEL: Fractured weathered sandstone.
		2.30	PID	PID=0				MUDSTONE: Weathered mudstone degraded to SILT, evidence of laminations visible in soil structure. Poorly consolidated becoming more competent, laminar and fissile from 2.6m. Becoming iron stained and grey / orange from 3.7m.
		2.80	PID	PID=0				
		3.30	PID	PID=0				
		3.80	PID	PID=0				
					4.40			End of Borehole at 4.40m

Remarks

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Sunny Bank Mills
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Borehole Log

Borehole No.
BH19-01
Sheet 1 of 2

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston	Location Details:	Lund Hill Lane, Royston, S71 4BD
Client:	Monckton Developments Limited	Level:	Dates:
Hole Type: RO	Scale: 1:50	Logged By:	

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.20			CONCRETE
		0.50	PID	PID=0	0.80			MADE GROUND: Black grey sandy angular gravel of bricks.
		1.50	PID	PID=1				MADE GROUND: Light brown beige silty clayey gravelly sand. Gravels are fine to medium sub-angular and brick and wood. Hydrocarbon odour.
		2.50	PID	PID=2	2.50			Yellow beige sandy gravelly COBBLES of sandstone. Some black staining.
					2.80			Yellow grey sandy GRAVEL of sandstone
					3.00			Brown grey gravel of SANDSTONE.
								Continued on Next Sheet

1 2 3 4 5 6 7 8 9 10

Remarks
Target depth achieved. Hydrocarbon odour.

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Borehole Log

Borehole No.
BH19-01
Sheet 2 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					12.00			End of Borehole at 12.00m

11 12 13 14 15 16 17 18 19 20

Remarks
Target depth achieved. Hydrocarbon odour.

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Borehole Log

Borehole No.
BH19-02
Sheet 1 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name: Monckton Coking Works	Project No. 1015	Co-ords:	Hole Type RO
Location: Lund Hill Lane, Royston		Level:	Scale 1:50
Client: Monckton Developments Limited		Dates:	Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	PID	PID=3126	0.20			CONCRETE
					0.60			MADE GROUND: Yellow brown gravelly sand. Gravels fine to coarse sub-angular and limestone crush. Drain present with localised staining around the drain. Tar odour.
					1.20			Yellow brown sandy GRAVELS with occasional cobbles of sandstone.
								Brown black gravels of SANDSTONE. Tar odour throughout.
								Continued on Next Sheet

Remarks
Target depth achieved. Tar odour and staining

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Borehole Log

Borehole No.
BH19-02
Sheet 2 of 2

Project Name:	Monckton Coking Works	Location Details: Lund Hill Lane, Royston, S71 4BD	Hole Type: RO
Location:	Lund Hill Lane, Royston	Project No.: 1015	Co-ords:
Client:	Monckton Developments Limited	Level:	Scale: 1:50
		Dates:	Logged By

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					12.00			End of Borehole at 12.00m

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Remarks
Target depth achieved. Tar odour and staining

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Borehole Log

Borehole No.
BH19-03
Sheet 1 of 2

Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston	Location Details:	Lund Hill Lane, Royston, S71 4BD
Client:	Monckton Developments Limited	Level:	Dates:
Hole Type: RO	Scale: 1:50	Logged By:	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30			CONCRETE - Stained black and blue on surface.
		0.50	PID	PID=0	0.50			MADE GROUND: Black gravelly slightly clayey fine to medium sand. Gravels include part and whole brick. Pipe located at 0.3m and coated in tar and full of water.
					0.80			CONCRETE
		1.00	PID	PID=0				MADE GROUND: Black clayey gravelly sand. Damp.
					1.20			Yellow brown gravelly SAND becoming sandy GRAVEL of sandstone.
		1.50	PID	PID=0				
		2.50	PID	PID=0				
		3.00	PID	PID=0				
					3.40			Brown, grey GRAVEL of sandstone. Hydrocarbon odour throughout.
								Continued on Next Sheet

Remarks
Target depth achieved. Tar observed.

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Borehole Log

Borehole No.
BH19-03
Sheet 2 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					12.00			End of Borehole at 12.00m

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Remarks
Target depth achieved. Tar observed.

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Borehole Log

Borehole No.
BH19-05
Sheet 1 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.20			CONCRETE
		0.50	PID	PID=1	0.50			MADE GROUND: Grey beige gravel of crush.
					0.90			MADE GROUND: Black stained gravelly cobbles of crush.
		1.70	PID	PID=48	1.70			Grey beige sandy GRAVELS and COBBLES of sandstone.
								Brown SANDSTONE. Hydrocarbon odour
								Continued on Next Sheet

Remarks
Target depth achieved. Hydrocarbon odour and staining.

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
BH19-05
Sheet 2 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					13.00			Grey MUDSTONE. Hydrocabon odour throughout
					20.00			End of Borehole at 20.00m

11 12 13 14 15 16 17 18 19 20

Remarks
Target depth achieved. Hydrocarbon odour and staining.

11 The Mending Rooms
Sunny Bank Mills
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0113 257 5397

Borehole Log

Borehole No.
BH19-06
Sheet 1 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.20			MADE GROUND: Yellow grey gravel of concrete crush.
					0.80			MADE GROUND: Brown gravelly sand with occasional cobbles and boulders
					1.30			Brown light brown gravelly SAND. Gravels of sandstone.
					2.00			Yellow brown gravelly SAND. Gravels are medium coarse sub-angular and sandstone.
								Brown SANDSTONE. Hydrocarbon odour throughout.
								Continued on Next Sheet

1 2 3 4 5 6 7 8 9 10

Remarks
Target depth achieved. Hydrocarbon odour

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
BH19-06
Sheet 2 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					14.00			Grey MUDSTONE.
					20.00			End of Borehole at 20.00m

11 12 13 14 15 16 17 18 19 20

Remarks
Target depth achieved. Hydrocarbon odour

11 The Mending Rooms
Sunny Bank Mills
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0113 257 5397

Borehole Log

Borehole No.
BH19-07
Sheet 1 of 2

Location Details:	Production Area		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:	Hole Type RO
Location:	Lund Hill Lane, Royston		Level:	Scale 1:50
Client:	Monckton Developments Limited		Dates:	Logged By

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10			MADE GROUND: Gravels of crush and concrete.
		0.50	PID	PID=5000				MADE GROUND: Dark brown gravelly sand. Gravels of brick. Coal tar odour. Concrete at 0.4m.
		1.00	PID	PID=5000				
					2.00			Black sandy angular GRAVEL of sandstone. Solvent odour.
					2.70			Brown SANDSTONE. Hydrocarbon / solvent odour.
								Continued on Next Sheet

1 2 3 4 5 6 7 8 9 10

Remarks
Target depth achieved.

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
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Borehole Log

Borehole No.
BH19-07
Sheet 2 of 2

Project Name:	Monckton Coking Works	Location Details: Production Area Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					18.00			Grey MUDSTONE. Hydrocarbon / solvent odour
					20.00			End of Borehole at 20.00m

11 12 13 14 15 16 17 18 19 20

Remarks
Target depth achieved.

11 The Mending Rooms
Sunny Bank Mills
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Borehole Log

Borehole No.
BH19-08
Sheet 1 of 2

Project Name:	Monckton Coking Works	Location Details: Production Area Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.20			CONCRETE:
					0.50			MADE GROUND: Grey black gravelly sand. Gravels of concrete. Occasional cobbles of brick.
								Brown yellow gravelly SAND. Gravels are fine sub-sub-angular and sandstone.
					2.00			Brown SANDSTONE
								Continued on Next Sheet

1 2 3 4 5 6 7 8 9 10

Remarks
Target depth achieved.

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
BH19-08
Sheet 2 of 2

Project Name:	Monckton Coking Works	Location Details: Production Area Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					16.00			Grey MUDSTONE
					19.50			Grey SANDSTONE
					20.00			End of Borehole at 20.00m

11 12 13 14 15 16 17 18 19 20

Remarks
Target depth achieved.

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP1/Trench 1 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 4.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							CONCRETE
				0.30			MADE GROUND: Black red very sandy very gravelly cobbles of brick. Gravels are fine to coarse, sub-angular and brick and coal.
				4.00			End of Pit at 4.00m

1 2 3 4 5 6 7 8 9 10

Remarks: Maximum depth reached.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP2 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Black SANDS and GRAVEL. Gravel is coal, brick and sandstone. Rare cobbles of brick and sandstone.
				3.50			CONCRETE PAD End of Pit at 3.50m

1 2 3 4 5 6 7 8 9 10

Remarks: Mine cap identified.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP3 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Dark grey fine to medium sub-angular gravel.
				0.20			MADE GROUND: Yellow beige sandy gravel.
				0.30			MADE GROUND: Pink sandy gravel.
							MADE GROUND: Red cobbles of brick - Possible basement wall.
				1.70			Yellow brown slightly sandy slightly CLAY becoming slightly clayey slightly sandy GRAVEL of weak sandstone. Edge of concrete pad identified at 2.9m approximately 3.0m south of trial pit.
				3.30			End of Pit at 3.30m

Remarks: Mine cap identified.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP4 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Black sandy fine to coarse gravel of coal and crush with occasional brick gravel.
							MADE GROUND: Dark brown very gravelly slightly cobbly sand. Gravels are fine to coarse, sub-angular and include coal brick crush and sandstone. Cobbles are fragmented and whole brick. Wire and re-bar also present.
				3.50			CONCRETE pad.
							End of Pit at 3.50m

Remarks: Mine cap identified.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP6 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Cream beige medium to coarse gravel of crush.
				0.40			MADE GROUND: Brown black slightly gravelly sand. Gravels of brick.
							Yellow brown fine to coarse sub-angular GRAVEL of weak sandstone.
				1.20			End of Pit at 1.20m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP7 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Grey medium to coarse sub-rounded to sub-angular gravel of crush.
				0.50			MADE GROUND: Yellow beige sand and gravel. Gravel is medium to coarse, sub-rounded to sub-angular and limestone crush.
				0.70			MADE GROUND: Brown black very gravelly fine to medium sand. Gravels include sandstone. Concrete obstruction at 0.7m in part of the trial pit - possible foundation.
				1.50			Brown fine to coarse sub-angular GRAVEL of weak sandstone.
							End of Pit at 1.50m

Remarks:

Stability:

11 The Mending Rooms
Sunny Bank Mills
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0113 257 5397

Borehole Log

Borehole No.
TP8/BH19-04
Sheet 1 of 2

Location Details:	Lund Hill Lane, Royston, S71 4BD		
Project Name:	Monckton Coking Works	Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.10			MADE GROUND: Grey gravel.
								MADE GROUND: Grey black gravelly fine sand.
					0.50			Yellow brown slightly sandy fine to coarse sub-angular GRAVEL of weak sandstone.
					0.70			Brown grey SANDSTONE

Continued on Next Sheet

Remarks
Target depth achieved.

11 The Mending Rooms
Sunny Bank Mills
Town St., Farsley, LS28 5UJ
0113 257 5397

Borehole Log

Borehole No.
TP8/BH19-04
Sheet 2 of 2

Project Name:	Monckton Coking Works	Location Details: Lund Hill Lane, Royston, S71 4BD	
		Project No. 1015	Co-ords:
Location:	Lund Hill Lane, Royston		Level:
Client:	Monckton Developments Limited		Dates:

Hole Type: RO
Scale: 1:50
Logged By:

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					11.50			Grey MUDSTONE
					12.00			End of Borehole at 0.70m

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Remarks
Target depth achieved.

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP9 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40			MADE GROUND: Grey cobbly gravel of crush including brick. Blue staining on some cobbles.
				1.70			MADE GROUND: Brown yellow gravelly sand. Gravels are sub-angular sandstone with some blue staining.
				2.10			Yellow brown sub-angular COBBLES of sandstone. Rare blue staining on cobbles.
							End of Pit at 2.10m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP10 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Black grey gravelly sand. Blue staining present on some gravels.
				0.50			MADE GROUND: Black grey gravelly cobbly sand. Blue staining and tar odour present.
							Light brown gravelly SAND which becomes sandy fine to coarse GRAVEL of sandstone. Blue staining on occasional gravels.
				2.00			End of Pit at 2.00m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP11 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Light grey gravelly sand.
				1.00			MADE GROUND: Red light brown slightly gravelly sand. Gravels are sub-rounded to rounded. Thin red band at 1.0m possible brick?
				2.00			Light brown slightly gravelly SAND. Gravels are rounded.
				3.20			Brown yellow gravelly angular COBBLES of sandstone.
							End of Pit at 3.20m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP12 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Light grey gravelly sand. Pipe identified at 0.3m
							MADE GROUND: Red brown slightly gravelly sand. Re-bar identified at 1.0m.
				2.20			Light brown yellow gravelly angular COBBLES of sandstone.
				3.00			End of Pit at 3.00m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP13 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Light grey gravelly sand.
				0.30			MADE GROUND: Dark brown gravelly cobbly sand. Gravels and cobbles are brick and concrete. Pipe identified at 1.0m
				2.00			Light brown gravelly angular COBBLES of sandstone. Gravels are fine to medium, angular and sandstone.
				3.10			End of Pit at 3.10m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP14 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.60	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			Light grey brown sand of TOPSOIL.
				0.40			Dark red brown gravelly cobbly SAND.
							Light brown gravelly SAND
				1.50			Light brown gravelly angular COBBLES of sandstone.
				2.60			End of Pit at 2.60m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP15 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.50			Grey sandy TOPSOIL.
				1.20			Yellow brown gravelly SAND becoming sandy angular GRAVEL of sandstone.
							End of Pit at 1.20m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP16 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			Light brown gravelly sand of TOPSOIL.
				1.00			MADE GROUND: Dark brown sandy sub-angular gravel with rare cobbles. Rare black staining but no odour.
				1.90			Brown gravelly angular COBBLES of sandstone.
							End of Pit at 1.90m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP17 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Grey medium sub-angular gravel of crush.
				0.50			Yellow brown very gravelly coarse SAND. Gravels are medium to coarse, sub-angular and sandstone.
				1.00			Yellow brown GRAVELS and COBBLES of sandstone.
							End of Pit at 1.00m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP18 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Grey medium sub-angular gravel of crush.
				0.60			Yellow brown very gravelly coarse SAND. Gravels are fine to coarse, sub-angular and sandstone. Brown fine to coarse, sub-angular GRAVELS and COBBLES of sandstone.
				1.40			End of Pit at 1.40m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House,
Louisa St. Idle, Bradford.
BSD10 8NE

Trial Pit Log

TrialPit No
TP19
Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.60	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Grey medium, sub-angular gravel of crush.
							Yellow brown very gravelly coarse SAND. Gravels of sandstone.
				1.60			End of Pit at 1.60m

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Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP20 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Grey medium sub-angular gravel of crush
				0.60			MADE GROUND: Yellow cream very sandy gravel of limestone crush. Concrete structure identified from 0 - 0.8m
				1.40			Yellow brown angular GRAVELS and COBBLES of sandstone.
							End of Pit at 1.40m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP21 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Reinforced CONCRETE
				0.30			
				0.40			MADE GROUND: Cream beige very sandy gravel of limestone crush.
				0.70			MADE GROUND: Brown slightly clayey slightly gravelly sand. Gravels include brick fragments.
							MADE GROUND: Brown clayey gravelly medium to coarse sand. Gravels include brick.
				2.80			
▼							MADE GROUND: Brown clayey gravelly medium to coarse sand. Gravels include brick. Black staining throughout with coal tar odour. Water ingress at 3.1m.
				3.10			Black GRAVELS and COBBLES of sandstone. Black coal is from staining and tar odour present.
				3.20			End of Pit at 3.20m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP22 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			CONCRETE: Stained with tar on surface.
				0.40			MADE GROUND: Brown sands and gravels of mixed lithologies including concrete and crush.
				0.60			MADE GROUND: Grey orange sandy fine to coarse, sub-angular gravel of concrete. Occasional cobbles of concrete present. Metal girders also present.
							MADE GROUND: Black dark blue (stained) slightly clayey very gravelly sand. Gravel is fine to coarse, sub-angular to sub-rounded and contains brick. Colour becomes royal blue with depth
				1.80			Light brown slightly gravelly SAND becoming sandy fine to coarse sub-angular GRAVEL of sandstone from 2.4m
				3.20			End of Pit at 3.20m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP23 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			CONCRETE
							MADE GROUND: Dark brown clayey gravelly sand. Gravels are fine to coarse, sub-angular and include brick, fire brick. In places bricks are part of a wall of basement of tunnel. Tunnels (x2) identified running in east-west direction.
				3.60			Red GRAVELS and COBBLES of sandstone.
				3.80			End of Pit at 3.80m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP24 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							CONCRETE
				0.30			MADE GROUND: Dark brown slightly clayey gravelly sand. Frequent cobbles of brick and fire bricks present.
				0.50			MADE GROUND: Red sandy gravel of brick. Tunnel identified parallel to tunnels identified in TP23. Sump identified at southern edge of trial pit containing a sludge of coal tar?
				3.00			Red GRAVELS and COBBLES of sandstone.
				3.30			End of Pit at 3.30m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP25 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Brown black sandy fine to coarse gravel of brick.
							MADE GROUND: Pale brown slightly gravelly sand. Some black staining present with tar odour - pipe identified that appears to be in connectivity with the sump identified at the south of TP24.
				1.50			MADE GROUND: Grey brown mudstone fill.
				1.80			Brown GRAVELS and COBBLES of sandstone
				2.50			End of Pit at 2.50m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP26 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.50			MADE GROUND: Yellow brown gravelly sand. Gravels of brick and glass.
				1.30			MADE GROUND: Red clayey and sandy cobbles of brick. Stained black with tar at 0.6m. Brick structure with pipe containing coal tar identified between 0.6m and 0.9m.
				2.40			Brown grey GRAVELS and COBBLES of mudstone. End of Pit at 2.40m

Remarks: Natural Ground.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP27 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			Reinforced CONCRETE
							MADE GROUND: Black slightly clayey gravelly SAND. gravels are fine to coarse, sub-angular and brick and sandstone. Pipe identified at 2.0m - 2.5m with water inflow. Sheen on water and bricks around pipe coated in tar.
				2.50			End of Pit at 2.50m

Remarks: Water ingress halted progress.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP28 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Black red sandy fine to coarse gravel of brick.
				0.50			MADE GROUND: Brown gravelly sand. Gravels are fine to coarse, sub-angular and brick and concrete. Pipe and old electric cable identified at 0.2m in east-west direction. Brick structure to west of trial pit surrounding in black clay. Where bricks exposed tar was seeping through with odour.
				0.60			MADE GROUND: Black gravels of coals with occasional cobbles.
				1.80			Yellow brown very sandy fine to coarse sub-angular GRAVEL of sandstone.
							End of Pit at 1.80m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP29 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.50			MADE GROUND: Black very gravelly sand. Gravel of brick and sandstone. Clay pipe identified.
				2.10			Yellow beige gravelly SAND becoming sandy GRAVEL of sandstone with depth.
							End of Pit at 2.10m

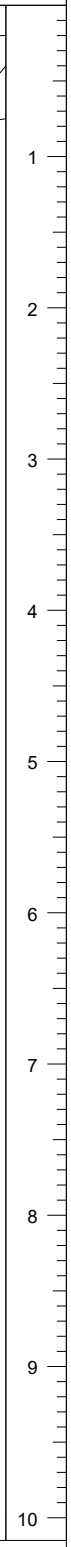
Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP30 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 0.75	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.40			MADE GROUND: Grey yellow medium to coarse sub-angular gravel of limestone crush.
				0.75			Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
							End of Pit at 0.75m



Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP31 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.40			MADE GROUND: Grey black sandy gravel of concrete crush. Tar identified locally at 0.2m.
				1.10			Yellow brown gravelly SAND. Gravel is fine to coarse sub-angular and sandstone.
				1.50			Yellow brown coarse angular to sun-angular GRAVEL of sandstone.
							End of Pit at 1.50m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP32 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.30			MADE GROUND: Black sandy medium to coarse sub-angular gravels. Gravels coated in tar.
				0.50			CONCRETE
							MADE GROUND: Yellow brown gravelly SAND. Gravels are fine to coarse sub-angular and sandstone. Clay pipe identified at north side of trial pit that is filled with black clay and has tar odour.
				1.80			Yellow beige sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.20			End of Pit at 2.20m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP33 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.60			MADE GROUND: Grey brown gravelly sand. Gravels are fine to medium, sub-angular and sandstone and brick. Black staining and odour noted on the brick. Metal pipe identified with staining on surface of the pipe.
				1.50			Grey brown sandy fine to coarse sub-angular GRAVEL of sandstone. Localised tar staining on uppermost part of gravels.
							End of Pit at 1.50m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP34 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 0.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.60			MADE GROUND: Yellow brown sandy fine to coarse sub-angular gravel of sandstone. Pipe identified at 0.5m
				0.90			MADE GROUND: Black brown sandy fine to coarse gravel of concrete. Localised tar odour and staining beneath the pipe.
				1.00			Black fine to coarse GRAVEL of sandstone. Tar odour and staining on top of sandstone.
							End of Pit at 0.90m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP35 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 0.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			Brown sub-angular GRAVEL of sandstone. Tar odour
							End of Pit at 0.30m

1 2 3 4 5 6 7 8 9 10

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP36 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 0.75	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.50			MADE GROUND: Yellow brown gravelly sand. Gravel is fine to coarse sub-angular and sandstone.
				0.75			MADE GROUND: Dark brown sandy fine to coarse gravel of mixed lithologies including brick. Tar odour and visible tar noted.
				0.80			Brown sandy fine to coarse angular to sub-angular GRAVEL of sandstone.
							End of Pit at 0.75m

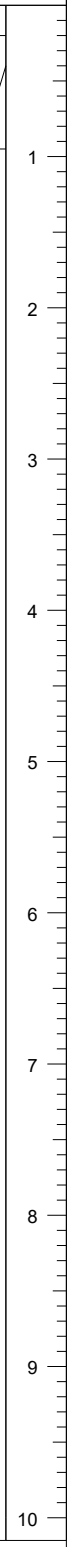
Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP37 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 0.95	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.40			MADE GROUND: Black sandy fine to coarse angular to sub-rounded gravel of concrete and brick. Tar odour.
				0.95			Brown sandy fine to coarse angular to sub-angular GRAVEL of sandstone.
							End of Pit at 0.95m



Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP38 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.60			MADE GROUND: Yellow brown gravelly sand. Gravels are fine to coarse sub-rounded and concrete and brick. Water ingress at 0.4m
				1.30			MADE GROUND: Black sandy fine to coarse angular to rub-rounded gravel of brick and concrete. Tar odour.
				1.30			Brown sandy fine to coarse sub-angular GRAVEL of sandstone. End of Pit at 1.30m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP39 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.65	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.40			MADE GROUND: Brown sandy fine to coarse sub-rounded gravel of fill
				0.80			MADE GROUND: Black gravelly sand. Gravel is fine, angular to sub-rounded. Tar odour. Pipe identified at 0.7m.
							Brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				1.65			End of Pit at 1.65m

1 2 3 4 5 6 7 8 9 10

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP40 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.40			MADE GROUND: Brown black sandy fine to coarse gravel including brick.
				0.60			MADE GROUND: Yellow brown gravelly sand. Gravels of sandstone. Pipe identified at 0.5m
							Yellow brown gravelly SAND becoming sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.00			End of Pit at 2.00m

1 2 3 4 5 6 7 8 9 10

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP41 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			CONCRETE
				0.50			MADE GROUND: Dark brown sandy fine to coarse angular to sub-rounded gravel. Tar odour and staining.
				0.70			CONCRETE
							MADE GROUND: Brown sandy fine to coarse angular to sub-rounded gravel. Some localised staining of tar.
				1.40			Brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				1.40			End of Pit at 1.40m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP42 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			COAL COVER
				0.50			CONCRETE - Trial pit continued at side of concrete (Black sandy fine to coarse sub-angular gravel. Tar odour). At base of concrete water and tar mix oozing out of concrete.
				0.80			MADE GROUND: Black sandy fine to coarse sub-angular gravel. Tar odour. Pipe identified at at 0.6m with visible tar present. Localised around the pipe.
				1.70			Grey brown sandy GRAVELS and COBBLES of sandstone.
							End of Pit at 1.70m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP43 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.05	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			COAL COVER
				0.35			MADE GROUND: Red cobbles of whole brick.
				0.50			MADE GROUND: Dark brown to black slightly clayey sandy gravel. Tar odour and staining throughout.
							MADE GROUND: Brown sandy fine to coarse sub-angular gravel. Tar odour
				1.70			MADE GROUND: Brown dark brown sandy fine to coarse sub-angular gravel. Tar odour and staining. Pipe identified at 1.7m containing tar.
				2.05			Brown sandy fine to coarse sub-angular GRAVEL of sandstone
				2.05			End of Pit at 2.05m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP44 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.40			MADE GROUND: Black gravelly sand. Metal fragments present. Tar odour noted.
							Brown orange gravelly SAND. Gravels are fine to coarse sub-angular and sandstone. Becomes light brown from 0.7m. Becomes sandy GRAVEL with depth.
				2.30			End of Pit at 2.30m

1 2 3 4 5 6 7 8 9 10

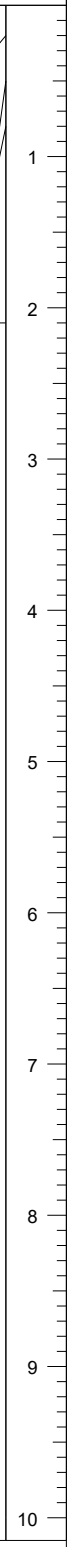
Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP45 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE. Tar staining on surface.
				0.50			MADE GROUND: Black fine to coarse sub-angular gravel with frequent bricks. Pipe idenitified in norther side of trial pit. Brick structure in north-west corner that is covered in coal tar.
				0.80			Brown clayey gravelly SAND. Gravels of sandstone. Grey brown sandy sandy fine to coarse GRAVEL of sandstone.
				2.10			End of Pit at 2.10m



Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP46 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				1.30			MADE GROUND: Black fine to coarse sub-angular gravel. Tar odour noted. Numerous pipe identified containing tar.
				2.10			Grey sandy fine to coarse sub-angular GRAVEL and COBBLES of sandstone. Becomes yellow brown at 1.5m
							End of Pit at 2.10m

1 2 3 4 5 6 7 8 9 10

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP47 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.40			MADE GROUND: Brown black clayey gravelly sand. Gravels of concrete and bricks.
				0.50			MADE GROUND: Brown medium sand of fill.
				0.90			Yellow brown gravelly medium to coarse SAND. Gravels of sandstone.
							Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				1.90			End of Pit at 1.90m

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP48 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Grey black brown gravelly sand.
				0.50			Yellow brown gravelly SAND. Gravels of sandstone.
							Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone. Band of grey impacted material between 1.2m and 1.4m - Solvent odour.
				1.50			End of Pit at 1.50m

1 2 3 4 5 6 7 8 9 10

Remarks: Competent bedrock.

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP49 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Black and red sands and gravels of mixed lithologies including brick. Abundant brick from 0.2m Metal girders noted. Large pipe identified (~0.4m diameter) in a north south direction with tar staining present. Localised tar staining in the soils but in close proximity to the pipe.
				1.80			CONCRETE base
				1.80			End of Pit at 1.80m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP50 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Black slightly clayey sand of coal.
				0.40			MADE GROUND: Brown gravelly sand.
							MADE GROUND: Black gravelly coarse sand. gravels are fine to coarse sub-angular to sub-rounded and brick. Occasional cobbles of brick.
				2.70			Grey sandy fine to coarse GRAVEL of mudstone.
				2.90			End of Pit at 2.90m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP51 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Black grey slightly clayey very gravelly sand. Gravels are fine to coarse sub-angular and coal. Occasional cobbles of brick.
				0.90			MADE GROUND: Black sands and gravel of brick.
				1.50			MADE GROUND: Soft grey very gravelly CLAY. Gravels are fine to coarse sub-angular and coal.
				3.10			Brown silty SAND. Damp.
				3.20			Brown sandy GRAVEL of sandstone.
				3.20			End of Pit at 3.20m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP52 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Black very gravelly sand with wood fragments.
				1.00			MADE GROUND: Grey black clayey sandy cobbles.
				1.10			Light brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				1.90			End of Pit at 1.90m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP53 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40			MADE GROUND: Black grey very sandy gravel of coal, tile and brick.
				0.60			MADE GROUND: Red pink sands and gravels
				1.10			MADE GROUND: Black sandy gravel. Occasional cobbles of brick. Rubber pipes also present.
				2.00			MADE GROUND: Grey gravelly clay (friable). Gravels are weathered mudstone and coal.
				2.70			Brown sandy fine to coarse sub-angular GRAVEL of sandstone.
							End of Pit at 2.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP54 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.90	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Red pink sandy gravel of mixed lithologies including mudstone.
				0.65			MADE GROUND: Black dark brown very sandy gravel of mixed litholigies including coal and re-bar.
				1.10			MADE GROUND: Soft, grey gravelly clay. Gravels of coal and mudstone.
				1.30			MADE GROUND: Rusty brown sand.
				2.40			MADE GROUND: Grey black slightly clayey gravel of predominately mudstone and fewer coals.
				3.00			Soft yellow gravelly CLAY. Becomes more gravelly with depth.
				3.90			Brown sandy fine to coarse sub-angular GRAVEL of sandstone
							End of Pit at 3.90m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP55 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40			MADE GROUND: Black grey gravelly sand. Gravels are fine to coarse sub-angular and concrete, sandstone and coal.
				0.50			MADE GROUND: Grey orange medium to coarse sub-angular gravel of crush.
				0.70			MADE GROUND: Grey clayey fine to coarse sub-angular gravel of orange grey mudstone (iron staining?)
				1.10			MADE GROUND: Soft to firm yellow beige sandy clay. Clay pipe and cables noted.
							Grey orange mottled slightly sandy CLAY. Laminations more prominent with depth becoming weak mudstone from 3.0m.
				3.20			End of Pit at 3.20m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP56 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			MADE GROUND: Black grey very gravelly sand. Gravels are coal, brick and mudstone.
				0.15			MADE GROUND: Red brown gravelly cobbly sand. Gravels and cobbles are brick.
				0.50			MADE GROUND: Grey red very gravelly sand. Gravels are fine to coarse angular to sub-angular and mudstone.
							MADE GROUND: Yellow grey gravelly sandy clay. Wooden planks noted.
				1.30			Yellow grey sandy gravelly CLAY becoming competent mudstone at the base.
				2.40			End of Pit at 2.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP57 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Grey black sandy fine to coarse sub-angular gravel of coal and brick.
				0.40			MADE GROUND: Pale red pink gravelly sand. Gravels are fine to coarse sub-angular and mudstone.
							MADE GROUND: Grey brown clayey very gravelly sand. Gravels of concrete brick and sandstone.
				1.50			MADE GROUND: Yellow grey sandy fine to coarse sub-angular gravel of mudstone and coal.
				2.30			MADE GROUND: Yellow brown sandy gravelly clay. Clay pipe identified at 3.7m with black coloured water with sheen on.
				3.60			Grey yellow GRAVEL of mudstone.
				3.80			End of Pit at 3.80m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP58 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			MADE GROUND: Black grey sandy fine to medium gravel of coal.
				0.50			MADE GROUND: Brown black sandy gravel of brick and sandstone
				0.70			MADE GROUND: Brown grey sandy gravelly cobbles of iron stained sandstone.
				0.90			MADE GROUND: Brown gravelly sand. Gravels of sandstone.
							Brown yellow sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.70			End of Pit at 2.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP59 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.40			MADE GROUND: Brown red sandy gravels of mudstone.
				0.80			MADE GROUND: Black very clayey fine gravels of coal.
				2.00			MADE GROUND: Grey sandy gravelly cobbles of mudstone and brick.
				2.30			Brown slightly gravelly SAND.
				3.70			Yellow brown sandy gravelly CLAY becoming clayey sandy GRAVEL of sandstone with depth.
							End of Pit at 3.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP60 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Black gravelly sand. Gravels are fine to coarse sub-angular and coal.
				0.60			MADE GROUND: Grey gravelly clay. Gravels include brick, mudstone and boiler ash.
				1.00			MADE GROUND: Black gravelly sand. Gravels of coal and re-bar.
				1.20			MADE GROUND: Grey gravelly clay. Gravels of coal.
				1.40			MADE GROUND: Brown grey very sandy silt. Damp.
							Light brown very sandy GRAVELS and COBBLES of sandstone.
				3.10			End of Pit at 3.10m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP61 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40			MADE GROUND: Black very sandy sub-angular gravel of coal.
				1.10			MADE GROUND: Dark brown gravelly sand. Gravels of coal and sandstone. occasional re-bar. Metal pipe identified at 0.9m. Clay pipe identified at 1.0m. Plastic pipe identified at 1.1m.
				2.00			MADE GROUND: Grey sandy gravelly clay. Blue staining noted.
				2.70			Light brown very sandy GRAVELS and COBBLES of sandstone.
							End of Pit at 2.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP62 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.60	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Black yellow red sandy fine to coarse gravel of crush, coal and brick.
				0.20			Brown gravelly silt of TOPSOIL
							MADE GROUND: Yellow sandy fine to coarse sub-angular gravel of sandstone.
				1.00			Grey brown fine to coarse angular to sub-angular GRAVEL of mudstone.
				1.60			End of Pit at 1.60m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP63 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Grey fine to medium gravel of brick, concrete and sandstone.
							Yellow brown gravelly SAND becoming sandy GRAVEL with depth. Gravels are fine to coarse and sub-angular).
				1.70			End of Pit at 1.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP64 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Black fine to coarse gravel of coal.
				1.00			MADE GROUND: Light brown orange sandy gravelly cobbles of brick.
				2.50			Orange red very sandy cobbly GRAVEL of sandstone.
							End of Pit at 2.50m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP65 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Black grey sandy gravel.
							MADE GROUND: Yellow brown gravelly sand. Gravels of brick, sandstone and coal. Occasional boulders of concrete. Metal sheeting and girders present Brick wall located on western side of trial pit. Concrete slab identified at 0.9m.
				1.00			Yellow beige sandy fine to coarse sub-angular GRAVEL of sandstone. Brick wall identified to the north of the trial pit down to 2.7m.
				2.70			End of Pit at 2.70m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP66 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Grey sandy fine to coarse gravel of coal.
				0.30			MADE GROUND: Brown gravelly sand. Gravels are brick and sandstone.
				0.60			MADE GROUND: Orange brown gravelly sand. Occasional cobbles of brick. Plastic pipe identified at 0.5m.
							Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.00			End of Pit at 2.00m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP67 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.30			MADE GROUND: Cream sandy gravel crush.
				0.50			MADE GROUND: Red sandy cobbly gravel of brick.
							MADE GROUND: Grey gravelly clay. Gravels of mudstone fill.
				1.00			MADE GROUND: Grey sandy gravels and cobbles of mudstone fill
				2.00			Yellow brown sandy GRAVEL of sandstone.
				3.50			End of Pit at 3.50m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP68 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.60			MADE GROUND: Cream sandy gravels of crush.
				0.80			MADE GROUND: Black grey very gravelly clay. Gravels of mudstone. Clay pipe identified at 0.7m.
				1.40			MADE GROUND: Grey gravels of mudstone fill. Mudstone is orange stained.
				1.60			Brown sandy SILT
				2.50			Yellow brown sandy CLAY.
				2.80			Yellow brown fine to coarse sandy GRAVEL of mudstone.
							End of Pit at 2.80m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP69 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				0.50			MADE GROUND: Grey light brown very sandy cobbly gravel of coal, brick and concrete.
				0.80			MADE GROUND: Black very sandy cobbly gravel.
							Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.40			End of Pit at 2.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP70 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Black sandy cobbly gravel of coal and brick.
				1.00			MADE GROUND: Cream sandy gravel of sandstone crush. Numerous concrete obstructions within the trial pit. Potential foundations or basement floors?
				1.20			MADE GROUND: Grey gravelly cobbles of concrete.
				3.10			MADE GROUND: Cream very sandy gravel of fill.
							End of Pit at 3.10m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP71 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.85	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Black sandy gravel of coal.
							MADE GROUND: Black red sandy cobbly gravel of coal and brick.
				1.00			MADE GROUND: Yellow light brown very sandy cobbly gravel of mudstone and sandstone.
				1.85			Yellow brown sandy fine to coarse GRAVEL of mudstone.
				1.85			End of Pit at 1.85m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP72 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL
				0.30			MADE GROUND: Grey sandy coarse sub-angular gravel of crush with frequent cobbles of brick.
				0.70			MADE GROUND: Red cobbles of brick
				1.30			MADE GROUND: Brown gravelly sand. Gravels are fine to coarse sub-angular and brick and sandstone.
				3.80			Soft to firm grey brown CLAY. Becomes mudstone at 3.5m.
							End of Pit at 3.80m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP73 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL
				0.20			MADE GROUND: Grey sandy coarse sub-angular gravel of crush.
							MADE GROUND: Brown very gravelly sand. Gravels of brick.
				1.70			MADE GROUND: Soft to firm brown grey clay with section of disused pipe.
				2.00			Soft brown grey CLAY becoming mudstone at 3.5m.
				3.70			End of Pit at 3.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP74 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL
				0.20			MADE GROUND: Grey sandy coarse sub-angular gravel of crush.
				0.30			Reinforced CONCRETE
				0.40			MADE GROUND: Brown gravelly sand. Gravels include concrete and brick.
							MADE GROUND: Yellow brown sandy clay. Clay pipe identified at 0.9m.
				1.20			MADE GROUND: Grey brown fine to course sub-angular gravel of mudstone fill.
				3.70			End of Pit at 3.70m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP75 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS COVER
				0.30			Brown sandy SILT
							Yellow brown sandy fine to coarse sub-angular GRAVEL of mudstone.
				1.20			End of Pit at 1.20m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP76 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.60	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL
				0.30			MADE GROUND: Yellow beige slightly sandy fine to coarse sub-angular gravel of crush.
				0.50			MADE GROUND: Black gravelly sand with abundant brick gravels and cobbles.
				0.80			Brown silty SAND.
							Stiff to firm grey brown CLAY becoming weak mudstone at 2.6m
				2.60			End of Pit at 2.60m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP77 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL MADE GROUND: Brown red gravelly sand. Gravels of brick, concrete and coal. Occasional cobbles of brick and concrete. at 1.8m old metal rail lines present in a east-west direction - potential rail tunnel?
				2.70			Yellow brown grey sandy gravelly CLAY.
				3.40			End of Pit at 3.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP78 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.70	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS COVER
				0.60			MADE GROUND: Brown red gravelly fine to coarse sand. Gravels are fine to coarse sub-angular to sub-rounded and brick, concrete, coal and fire bricks.
				1.10			MADE GROUND: Black gravelly sandy clay. Wooden planks present.
				2.70			MADE GROUND: Soft to firm gravelly clay. Gravels are sandstone, broken clay pipe and mudstone. Pipe at 2.5m. Water ingress at approximatley 2.5m.
							End of Pit at 2.70m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP79 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			GRASS and TOPSOIL
				0.30			MADE GROUND: Black clayey gravelly sand. Frequent rootlets.
							Grey sandy fine to coarse sub-angular GRAVEL of mudstone. Becomes more competent with depth.
				2.20			End of Pit at 2.20m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP80 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 4.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Grey very sandy fine to medium gravel of fill. At base bricks present. Potential bund?
				4.00			Grey fine to coarse sub-angular GRAVEL of mudstone. Tar odour.
				4.10			End of Pit at 4.10m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP81 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.40			MADE GROUND: Grey beige sandy fine to coarse sub-angular gravel of crush
				0.50			MADE GROUND: Black red gravelly sand.
							MADE GROUND: Grey sandy fine to coarse sub-angular gravel of mudstone fill.
				2.30			Yellow brown sandy laminated CLAY becoming mudstone with depth.
				3.40			End of Pit at 3.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP82 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Black silty sandy fine to coarse sub-angular to sub-rounded gravel of coal.
				0.45			MADE GROUND: Orange sandy fine to coarse angular to sub-angular gravel. Wet.
							MADE GROUND: Stiff yellow brown clay. Brick structure at 1.1m
				1.20			Stiff yellow brown gravelly CLAY. Gravels of mudstone. Becoming clayey GRAVEL of mudstone from 2.0m
				2.50			End of Pit at 2.50m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP83 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.80	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			COAL COVER
				0.30			MADE GROUND: Yellow brown sandy medium to coarse sub-angular to sub-rounded gravel of sandstone.
				0.40			MADE GROUND: Red brown clayey sandy fine to coarse angular to rounded gravel of sandstone, brick and concrete.
							Yellow brown gravelly CLAY becoming clayey GRAVEL of mudstone with depth.
				1.80			End of Pit at 1.80m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP84 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Black gravel of coal.
							MADE GROUND: Red yellow brown silty sandy fine to coarse angular to sub-rounded gravel of sandstone, mudstone, and brick. Occasional plastic fragments.
				1.50			End of Pit at 1.50m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP85 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.20	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Red brown sandy fine to coarse angular to sub-rounded gravel of sandstone, concrete and brick. Concrete structure at 1.2m. trial pit advanced down the side of the structure.
				1.20			Yellow brown clayey fine to coarse sub-angular GRAVEL of mudstone.
				2.20			End of Pit at 2.20m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP86 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.45	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			MADE GROUND: Black gravel of coal
				0.20			MADE GROUND: Red brown sandy fine to coarse gravel of brick
				0.40			MADE GROUND: Cream yellow sandy fine to coarse sub-angular to sub-rounded gravel.
				0.50			MADE GROUND: Black sandy gravel of coal.
				0.90			MADE GROUND: Red brown sandy fine to coarse gravel of brick
							Yellow brown clayey sandy fine to coarse GRAVEL of mudstone.
				2.45			End of Pit at 2.45m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP87 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			CONCRETE
				1.00			MADE GROUND: Black brown sandy fine to coarse angular to sub-rounded gravel including brick.
				2.00			MADE GROUND: Firm grey clay.
				2.80			MADE GROUND: Firm yellow brown clay. Pipe encountered at 2.7m.
				3.50			Yellow brown clayey sandy fine to coarse GRAVEL of mudstone.
							End of Pit at 3.50m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP88 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Red brown sandy fine to coarse angular to sub-angular gravel including brick and concrete.
				0.35			MADE GROUND: Red fine to coarse angular gravel of brick.
				1.00			MADE GROUND: Dark red brown sandy fine to coarse angular to sub-angular gravel of concrete and brick.
							MADE GROUND: Grey clayey fine to coarse angular gravel of mudstone fill.
				2.00			Stiff yellow grey mottled CLAY becoming clayey GRAVEL of mudstone with depth.
				3.50			End of Pit at 3.50m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP89 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Yellow brown silty fine to coarse sub-angular to sub-rounded gravel of sandstone.
				0.30			Membrane
				0.50			MADE GROUND: Brown silty sandy fine to coarse sub-angular to sub-rounded gravel including brick.
				0.90			MADE GROUND: Yellow brown clayey sand.
				1.20			MADE GROUND: Stiff yellow clay. Red electric cable identified on west side of the trial pit.
							Yellow brown clayey sandy fine to coarse sub-angular GRAVEL of mudstone.
				2.40			End of Pit at 2.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP90 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.70			MADE GROUND: Light brown sandy fine to coarse sub-angular gravel of sandstone and brick.
				1.50			Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
							End of Pit at 1.50m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP91 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.30			MADE GROUND: Yellow beige sandy gravel of crush
				0.40			MADE GROUND: Black gravelly sand. gravels are fine to medium and mixed lithologies. MADE GROUND: Red brown sandy fine to coarse gravels and cobbles of brick. Brick wall present on threes of trial pit.
				1.90			Yellow brown sandy fine to coarse sub angular GRAVEL of sandstone
				2.00			End of Pit at 2.00m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP92 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.30	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Reinforced CONCRETE. Two layers of concrete between 0.0m and 0.2m and 0.2m and 0.6m
				0.80			Yellow brown gravelly SAND. Gravels fine to coarse sub-angular and sandstone. Becomes sandy GRAVEL of sandstone with depth.
				3.30			End of Pit at 3.30m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP93 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.50	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.30			MADE GROUND: Yellow beige sandy fine to coarse sub-angular gravel of crush
				0.40			MADE GROUND: Black gravelly sand. Gravels include coal and brick.
							MADE GROUND: Grey sandy fine to coarse angular to sub-angular gravel of mudstone fill. Iron staining on mudstone.
				2.40			Brown silty sandy slightly gravelly SILT.
				3.50			End of Pit at 3.50m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP94 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.60	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Reinforced CONCRETE
				0.30			MADE GROUND: Yellow beige sandy fine to coarse gravel of crush.
				0.60			MADE GROUND: Black sandy fine to medium gravel of brick concrete and mudstone.
							MADE GROUND: Grey slightly sandy fine to coarse sub-angular gravel of mudstone. Occasional cobbles of mudstone.
				2.10			Soft to firm grey black slightly gravelly CLAY.
				2.30			Yellow brown silty fine to coarse SAND.
				2.50			Yellow brown sandy fine to coarse GRAVEL of sandstone.
				3.60			End of Pit at 3.60m

1 2 3 4 5 6 7 8 9 10

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP95 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 1.00	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30			MADE GROUND: Black grey silty sandy fine to coarse sub-angular to sub-rounded gravel of concrete brick and coal. Frequent cobbles of brick and concrete.
				0.60			MADE GROUND: Red cobbles of brick. Potential foundation wall?
				1.00			CONCRETE and metal rail lines. Potential old rail line?
							End of Pit at 1.00m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP96 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 3.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.15			MADE GROUND: Black sandy fine to coarse sub-angular gravel of coal
				0.20			MADE GROUND: Yellow beige sandy gravel of crush
				0.50			MADE GROUND: Red brown sandy fine to coarse gravel of mudstone fill.
				0.80			MADE GROUND: Grey sandy fine to coarse sub-angular gravel of mudstone. Rare boulders of concrete.
							Brown grey silty sandy CLAY. Becomes mudstone from 3.0m
				3.40			End of Pit at 3.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP97 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.40	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10			MADE GROUND: Black sandy gravel of coal.
				0.30			MADE GROUND: Yellow beige sandy gravel of sandstone.
				0.50			MADE GROUND: Red cobbles of brick. Wall structure.
							MADE GROUND: black grey clayey sandy fine to coarse sub-angular gravel of brick concrete. Pipes present. pockets of black clay around pipes at 2.2m. No odour.
				2.40			End of Pit at 2.40m

Remarks:

Stability:

Geo2, Coniston House, Louisa St. Idle, Bradford. BSD10 8NE	Trial Pit Log	TrialPit No TP98 Sheet 1 of 1

Project Name: Monckton Coking Works	Project No. 1015	Co-ords: - Level:	Date
Location: Lund Hill Lane, Royston		Dimensions (m): Depth 2.10	Scale 1:50
Client: Monckton Developments Limited			Logged

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			MADE GROUND: Black sandy fine to coarse sub-angular gravel of mixed lithologies. Brick wall at side of trial pit.
				0.40			MADE GROUND: Yellow beige sandy gravel of crush.
				0.60			CONCRETE
							Yellow brown sandy fine to coarse sub-angular GRAVEL of sandstone.
				2.10			End of Pit at 2.10m

Remarks:

Stability:

Appendix D

Geotechnical Data

LABORATORY REPORT

4043

Contract Number: PSL20/2909

Report Date: 06 July 2020

Client's Reference:

Client Name: Geo2
Coniston House
Louisa Street
Idle
BD10 8NE

For the attention of: Ben Wilson

Contract Title: Monkton

Date Received: 15/6/2020
Date Commenced: 15/6/2020
Date Completed: 6/7/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director)	A Watkins (Director)	R Berriman (Quality Manager)
L Knight (Senior Technician)	S Eyre (Senior Technician)	S Royle (Laboratory Manager)

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP76			1.60		Brown mottled grey gravelly sandy CLAY.
TP52			1.50		Brown sandy slightly silty GRAVEL with cobbles.
TP86			2.20		Brown slightly sandy slightly silty GRAVEL with cobbles.
TP82			2.20		Brown highly weathered MUDSTONE.
TP63			1.60		Brown sandy slightly clayey silty GRAVEL with cobbles.
TP19			1.00	1.40	Brown slightly sandy slightly silty GRAVEL with cobbles.
TP32			1.70		Brown slightly sandy slightly silty GRAVEL with cobbles.
TP73			2.50		Brown mottled grey slightly gravelly slightly sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP76			1.60		17			53	24	29	78	High plasticity CH.
TP52			1.50		8.9				NP			
TP86			2.20		7.0				NP			
TP82			2.20		10			37	19	18	31	Intermediate plasticity CI.
TP63			1.60		9.7				NP			
TP19			1.00	1.40	6.0				NP			
TP32			1.70		8.9				NP			
TP73			2.50		20			58	25	33	95	High plasticity CH.

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

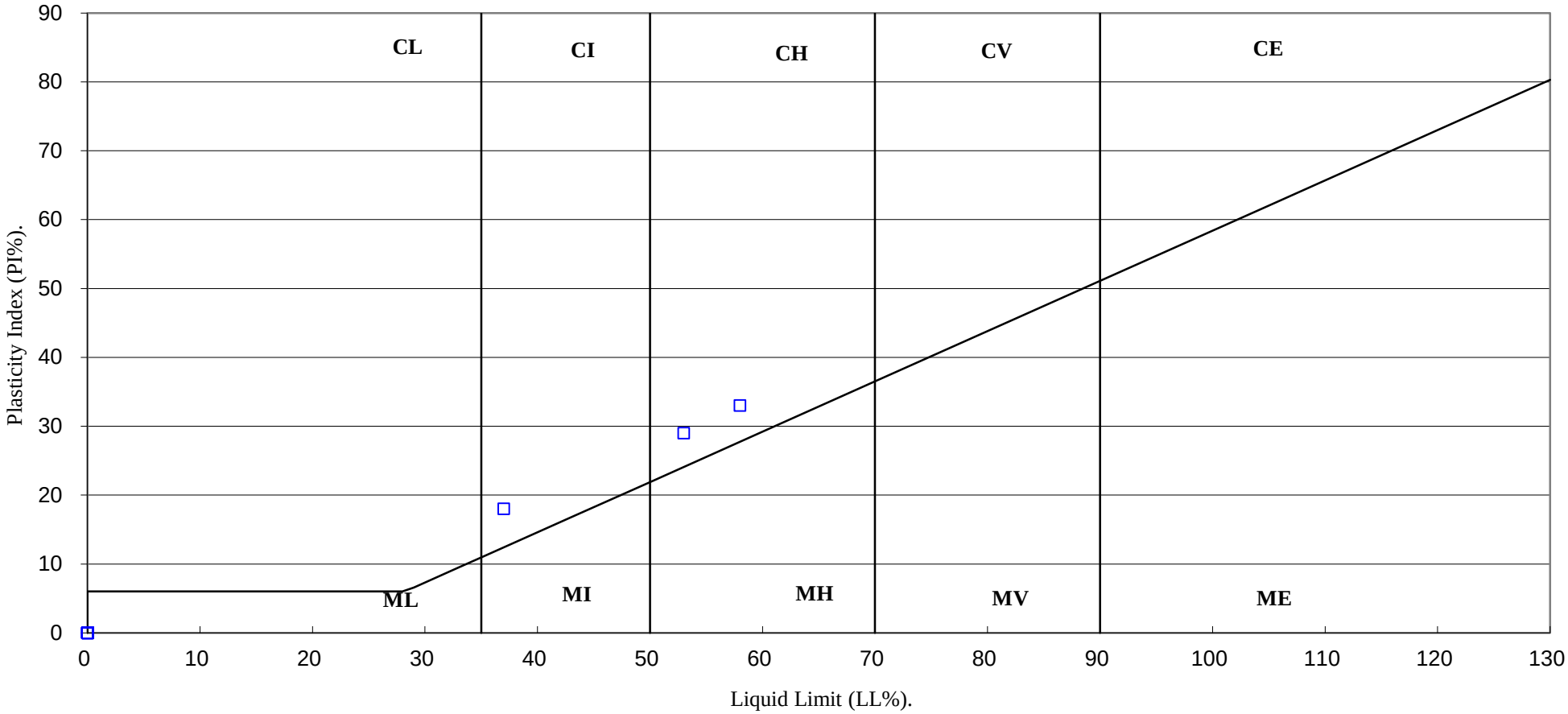
Monkton

Contract No:

PSL20/2909

Client Ref:

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Monkton**	**Contract No:**
			PSL20/2909
			Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

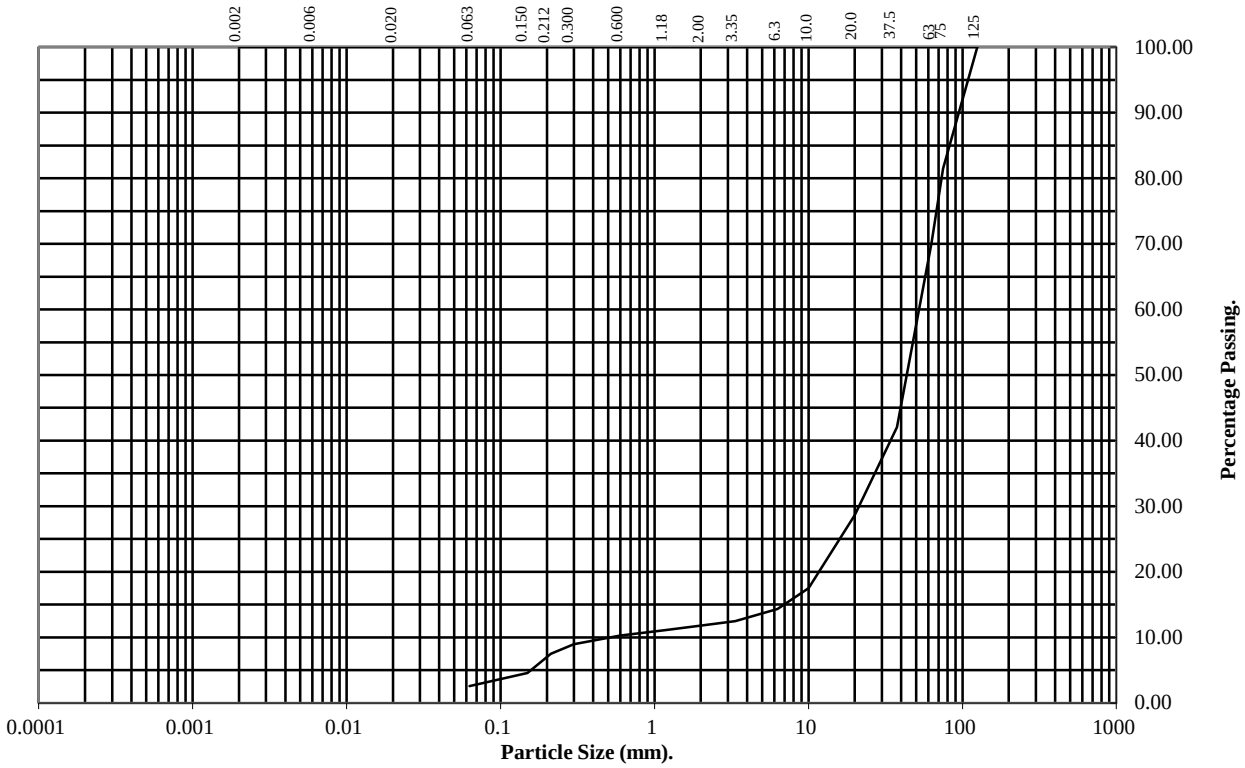
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP19** **Top Depth (m):** **1.00**

Sample Number: **Base Depth(m):** **1.40**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	81
63	70
37.5	42
20	29
10	17
6.3	14
3.35	12
2	12
1.18	11
0.6	10
0.3	9
0.212	7
0.15	5
0.063	3

Soil Fraction	Total Percentage
Cobbles	30
Gravel	58
Sand	9
Silt/Clay	3

Remarks:

See Summary of Soil Descriptions

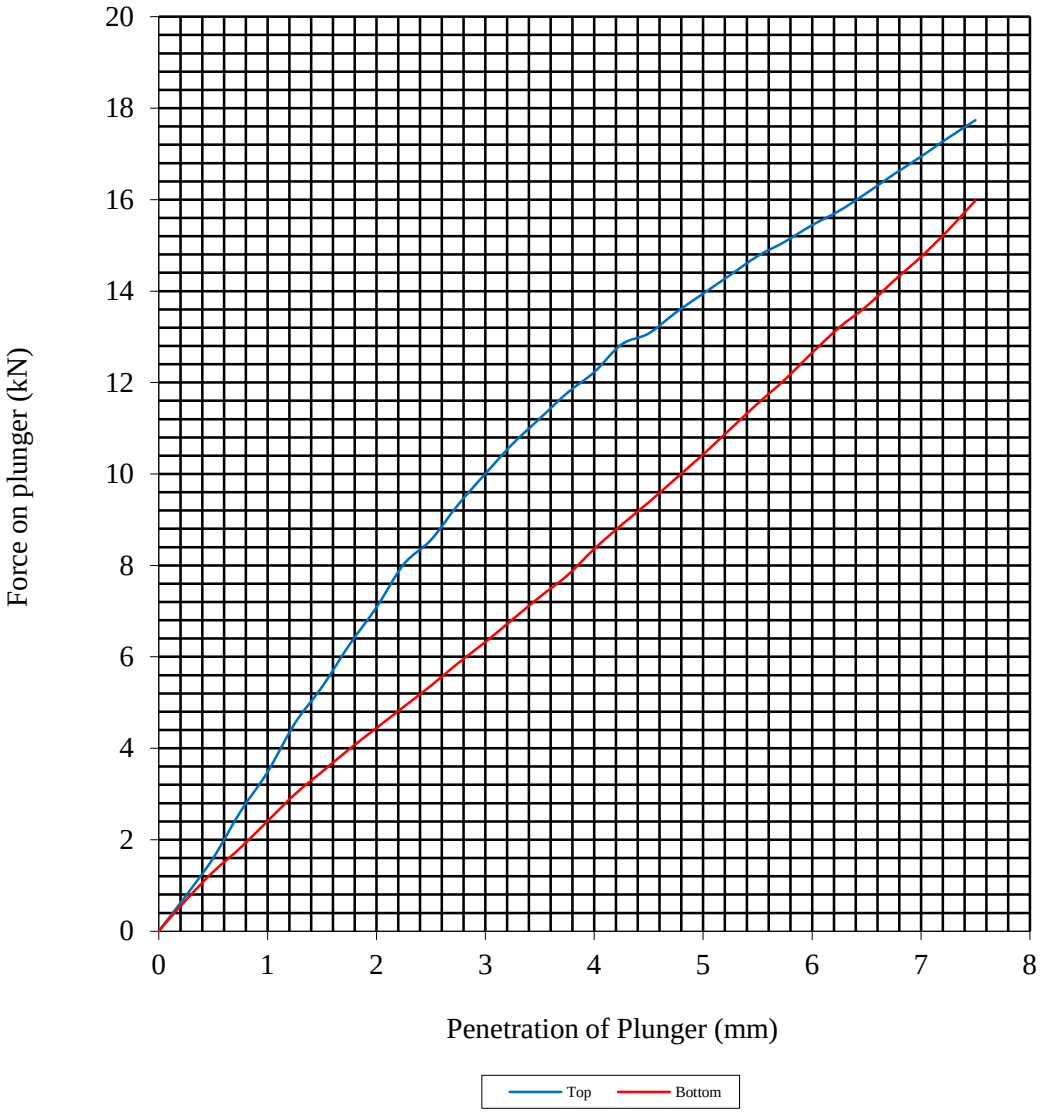
CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

Hole Number: TP19 **Top Depth (m):** 1.00

Sample Number: **Base Depth (m):** 1.40

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	6.0	Surcharge Kg:	4.20	Sample Top	6.0	Sample Top	69.7
Bulk Density Mg/m3:	1.95	Soaking Time hrs	0	Sample Bottom	6.1	Sample Bottom	52.1
Dry Density Mg/m3:	1.84	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			71				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No:
PSL20/2909
Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

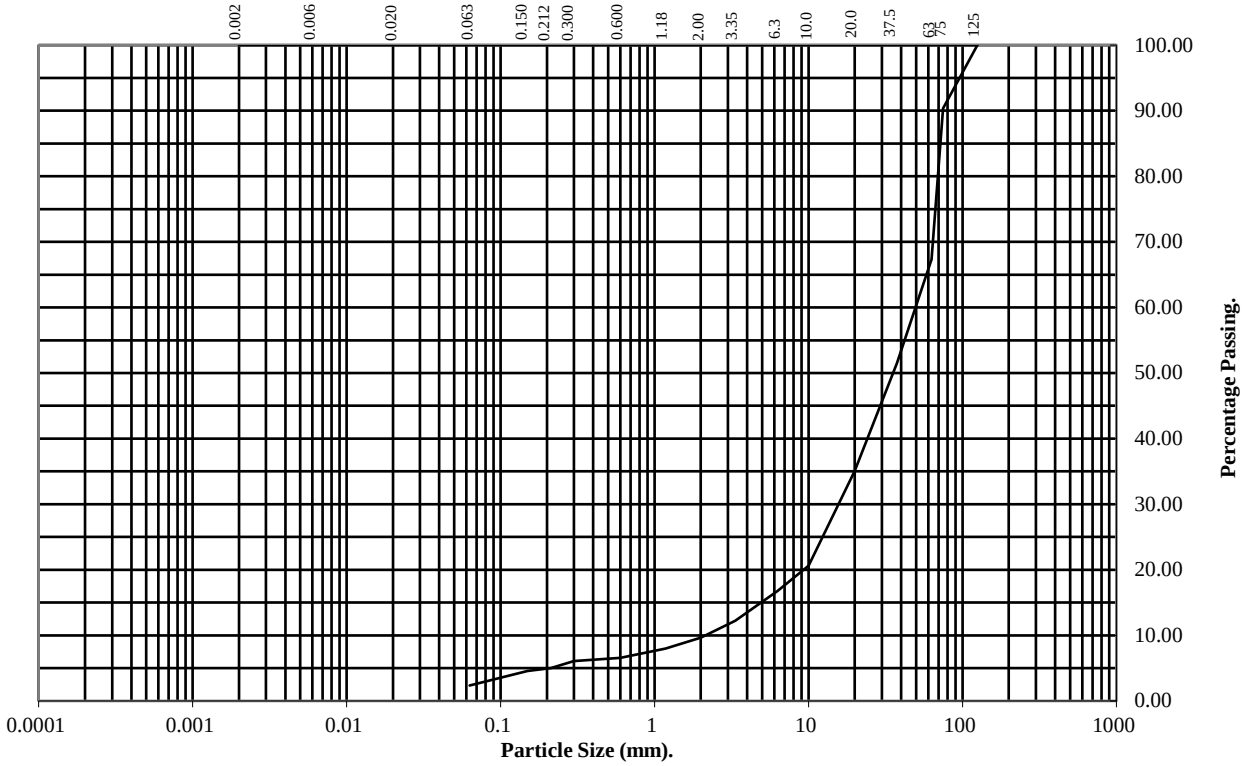
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP32** **Top Depth (m):** **1.70**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	90
63	67
37.5	52
20	35
10	21
6.3	17
3.35	12
2	10
1.18	8
0.6	7
0.3	6
0.212	5
0.15	5
0.063	2

Soil Fraction	Total Percentage
Cobbles	33
Gravel	57
Sand	8
Silt/Clay	2

Remarks:

See Summary of Soil Descriptions

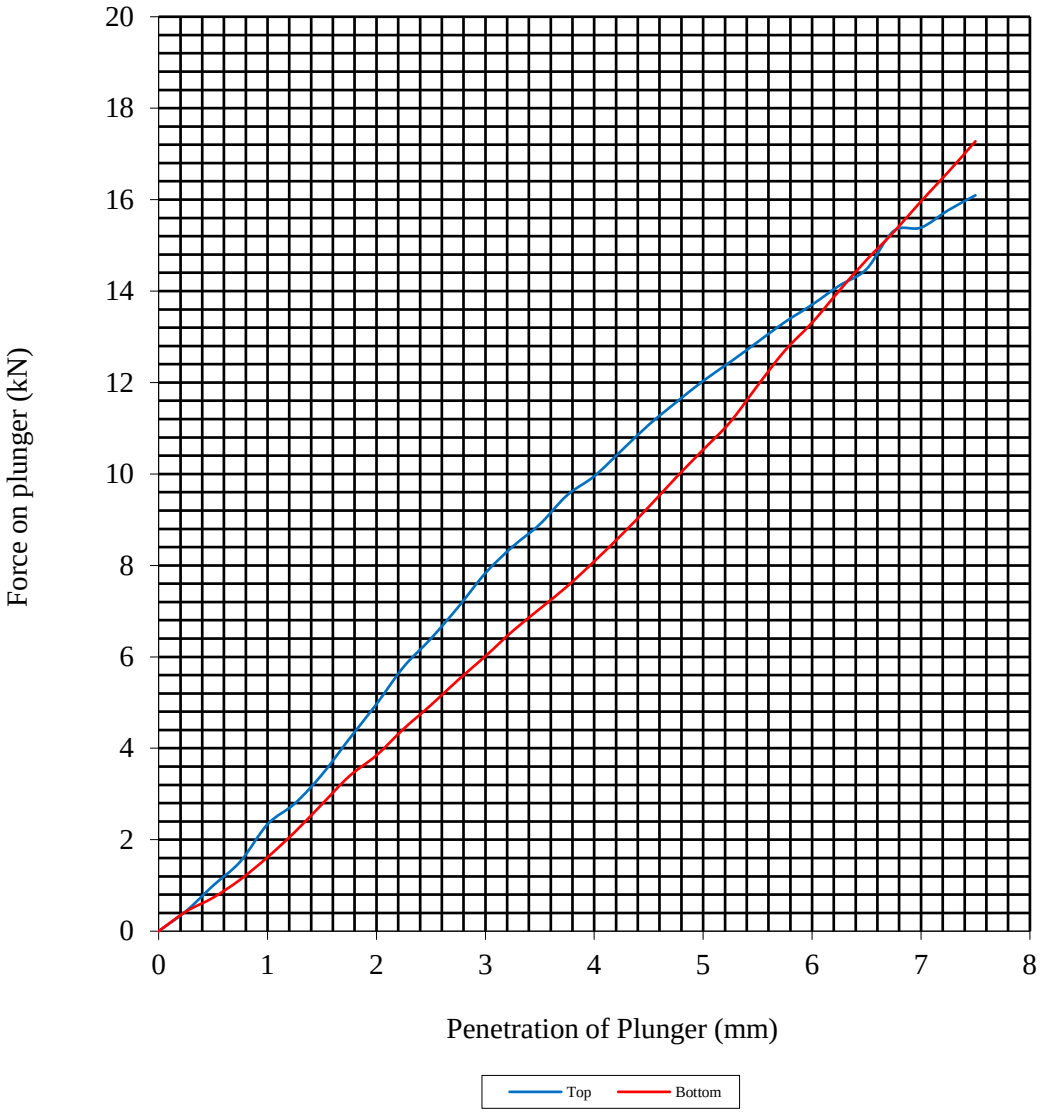
CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

Hole Number: TP32 **Top Depth (m):** 1.70

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	8.9	Surcharge Kg:	4.20	Sample Top	8.9	Sample Top	60.2
Bulk Density Mg/m3:	2.07	Soaking Time hrs	0	Sample Bottom	9.1	Sample Bottom	52.7
Dry Density Mg/m3:	1.90	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			65				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

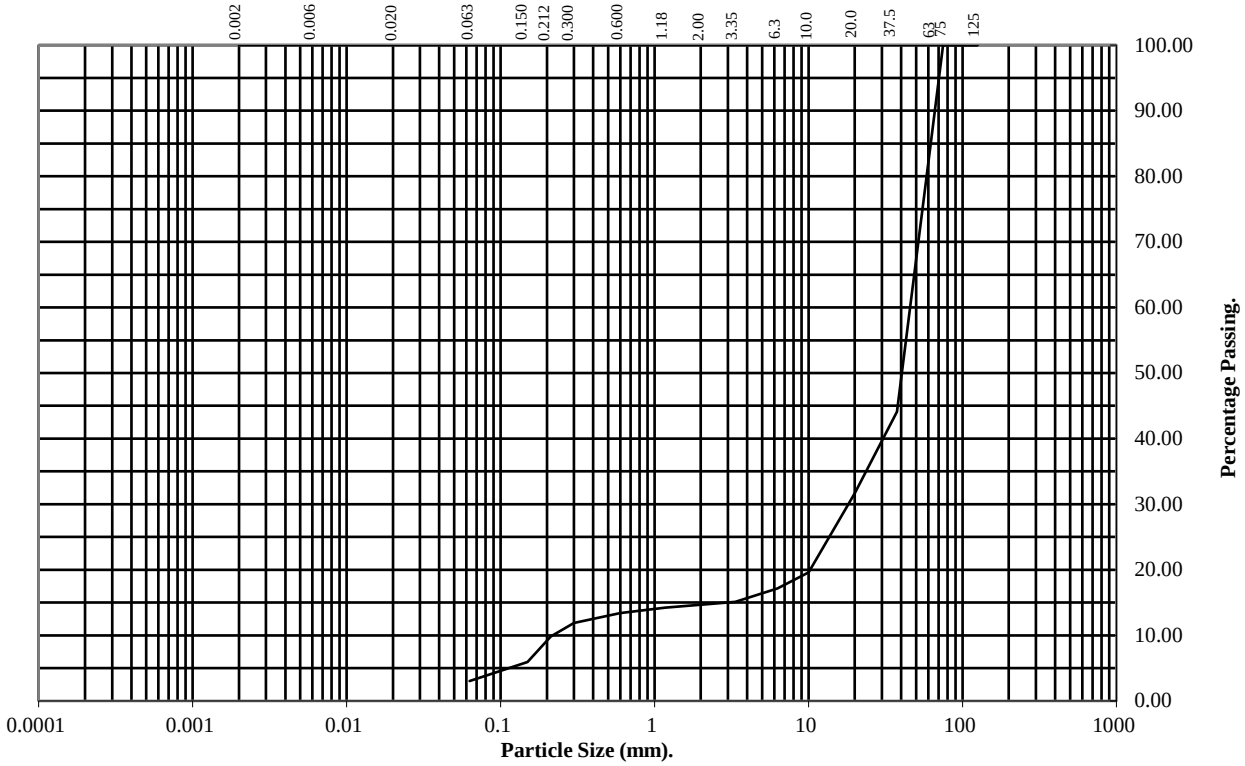
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP52** **Top Depth (m):** **1.50**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	86
37.5	44
20	32
10	20
6.3	17
3.35	15
2	15
1.18	14
0.6	13
0.3	12
0.212	10
0.15	6
0.063	3

Soil Fraction	Total Percentage
Cobbles	14
Gravel	71
Sand	12
Silt/Clay	3

Remarks:

See Summary of Soil Descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Monkton**	**Contract No:** PSL20/2909 **Client Ref:**

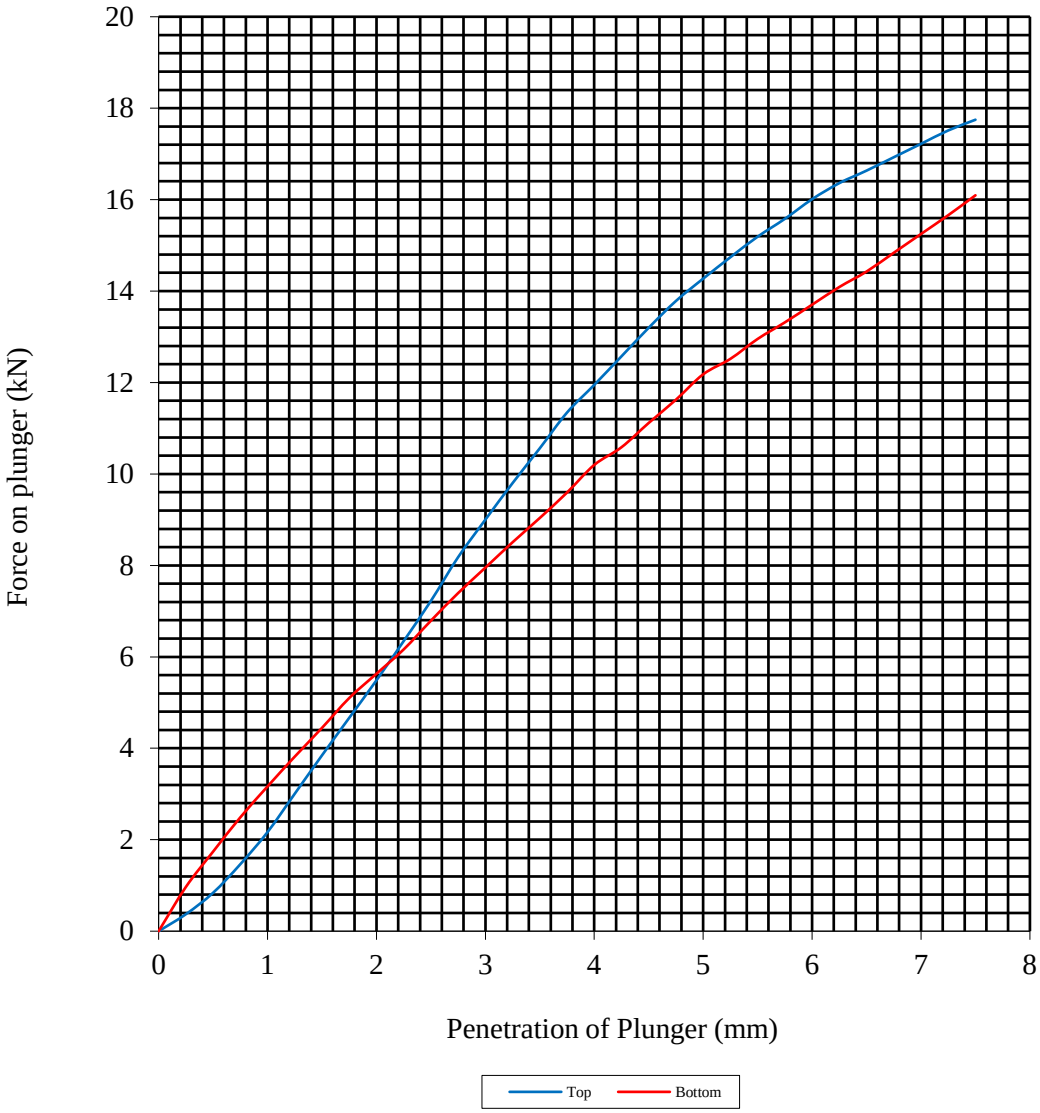
CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

Hole Number: TP52 **Top Depth (m):** 1.50

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	8.9	Surcharge Kg:	4.20	Sample Top	8.8	Sample Top	71.4
Bulk Density Mg/m3:	2.14	Soaking Time hrs	0	Sample Bottom	9.0	Sample Bottom	60.9
Dry Density Mg/m3:	1.96	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			68				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

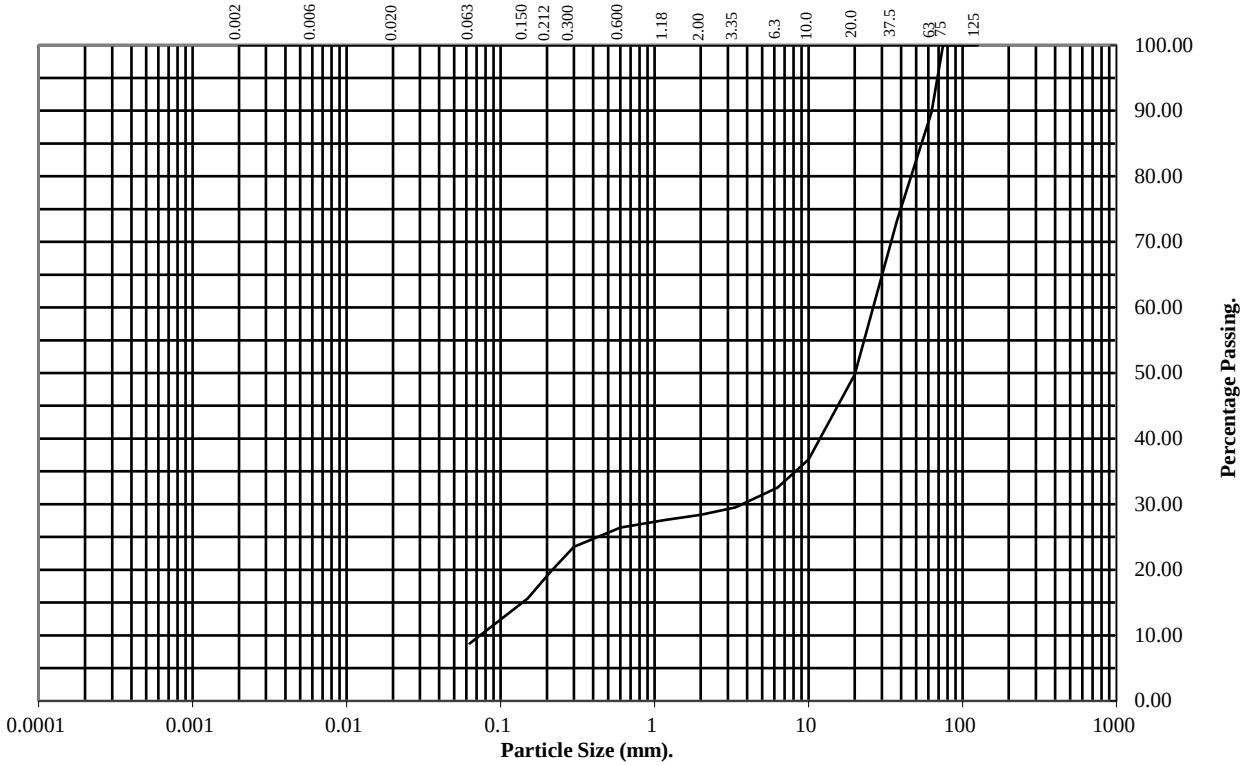
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP63** **Top Depth (m):** **1.60**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	90
37.5	73
20	50
10	37
6.3	33
3.35	30
2	28
1.18	28
0.6	26
0.3	24
0.212	20
0.15	16
0.063	9

Soil Fraction	Total Percentage
Cobbles	10
Gravel	62
Sand	19
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions

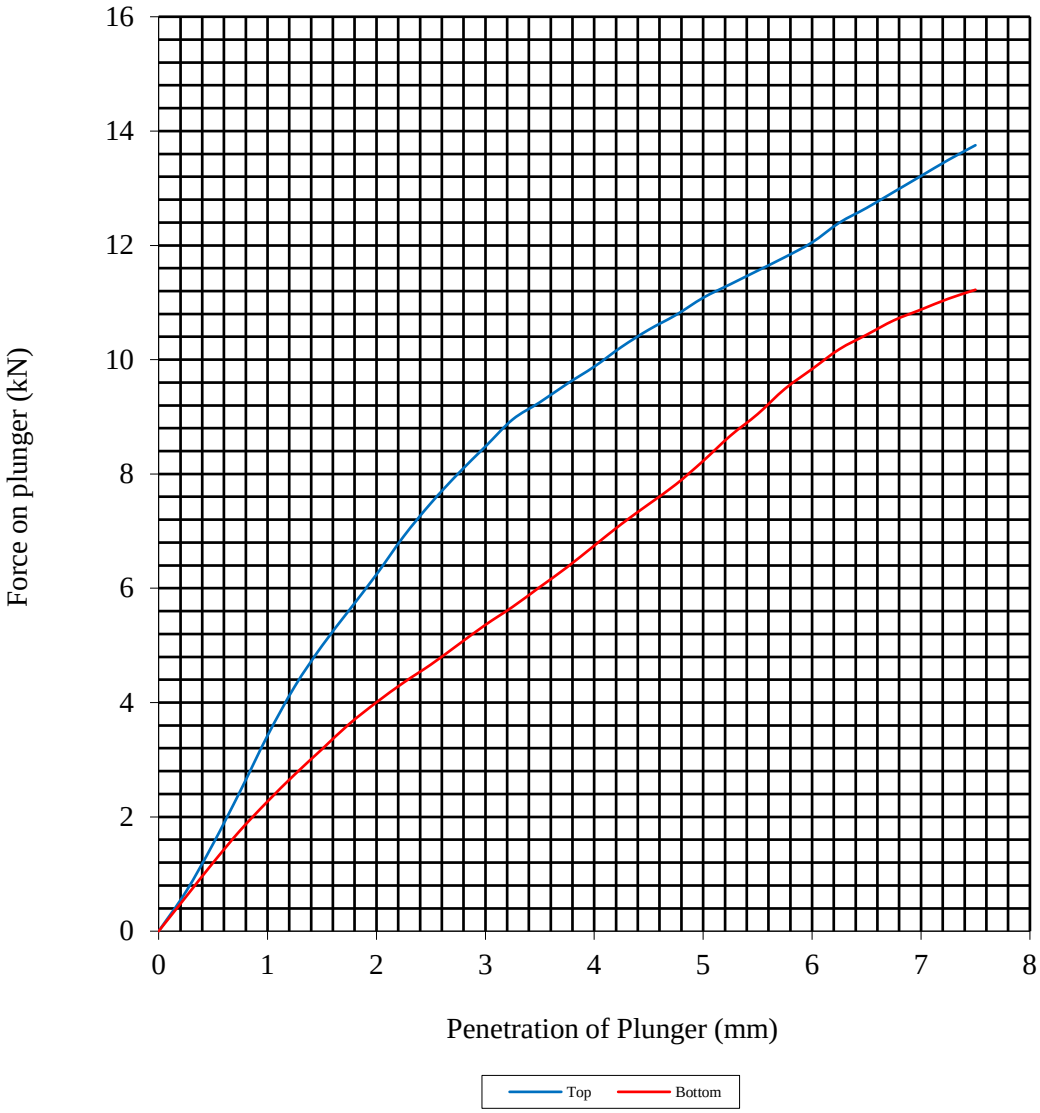
CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

Hole Number: TP63 **Top Depth (m):** 1.60

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	9.7	Surcharge Kg:	4.20	Sample Top	9.7	Sample Top	56.7
Bulk Density Mg/m3:	2.10	Soaking Time hrs	0	Sample Bottom	10	Sample Bottom	41.1
Dry Density Mg/m3:	1.92	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			50				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

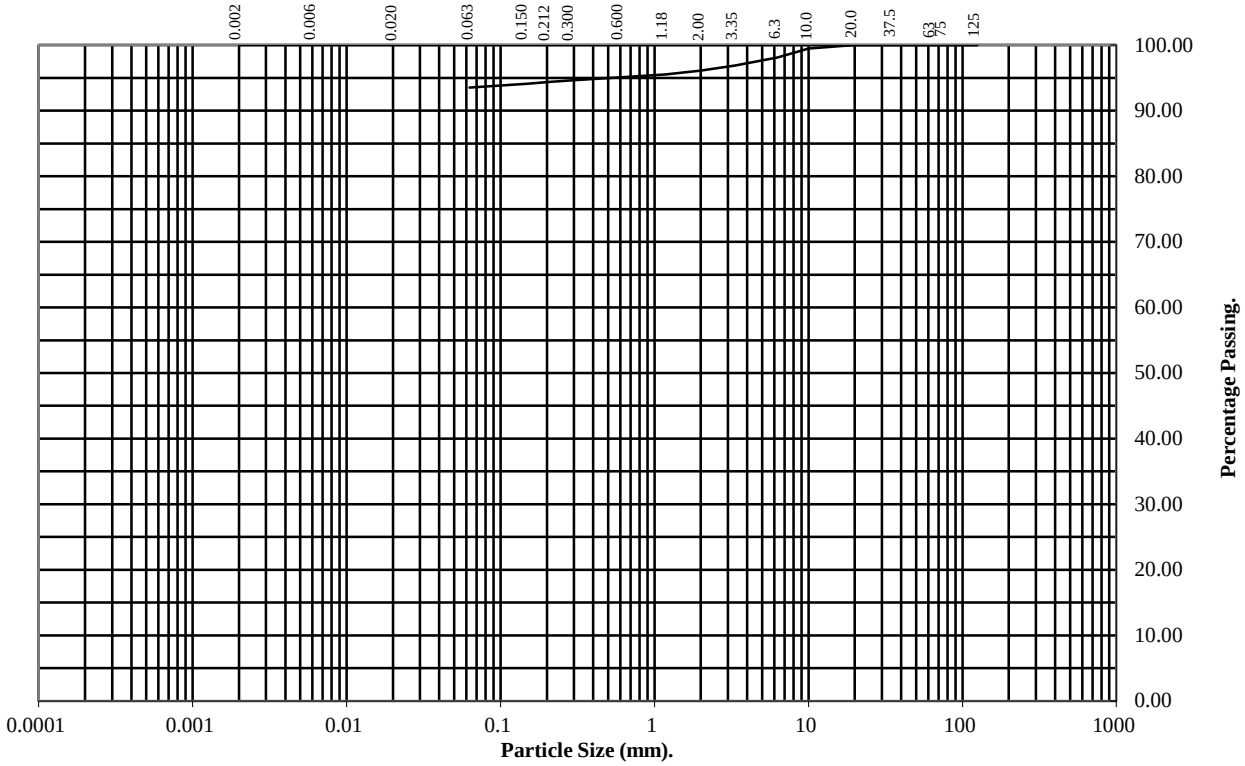
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP73** **Top Depth (m):** **2.50**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	98
3.35	97
2	96
1.18	96
0.6	95
0.3	95
0.212	94
0.15	94
0.063	94

Soil Fraction	Total Percentage
Cobbles	0
Gravel	4
Sand	2
Silt/Clay	94

Remarks:

See Summary of Soil Descriptions

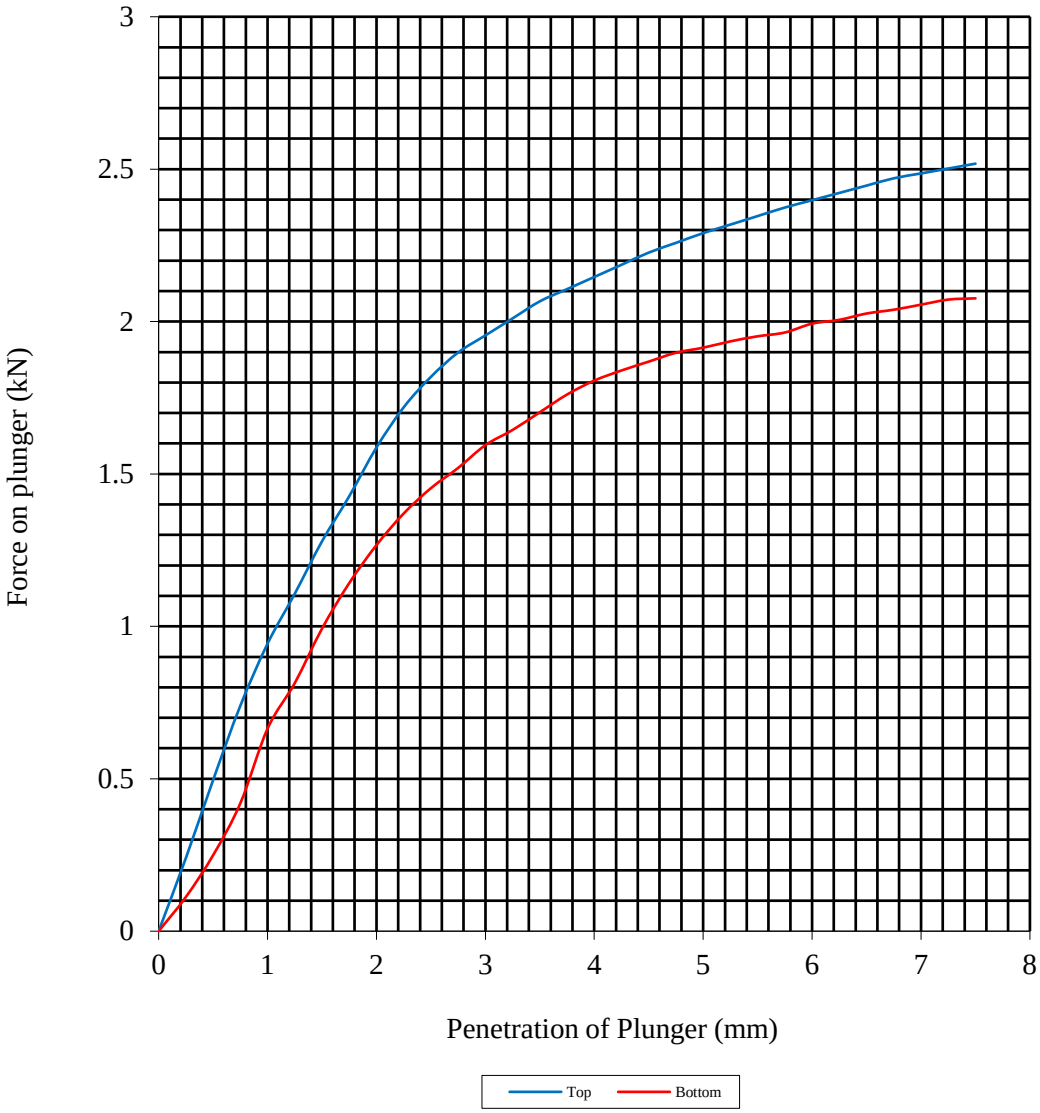
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: TP73 **Top Depth (m):** 2.50

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	20	Surcharge Kg:	4.20	Sample Top	20	Sample Top	13.8
Bulk Density Mg/m3:	2.03	Soaking Time hrs	0	Sample Bottom	20	Sample Bottom	11.0
Dry Density Mg/m3:	1.69	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

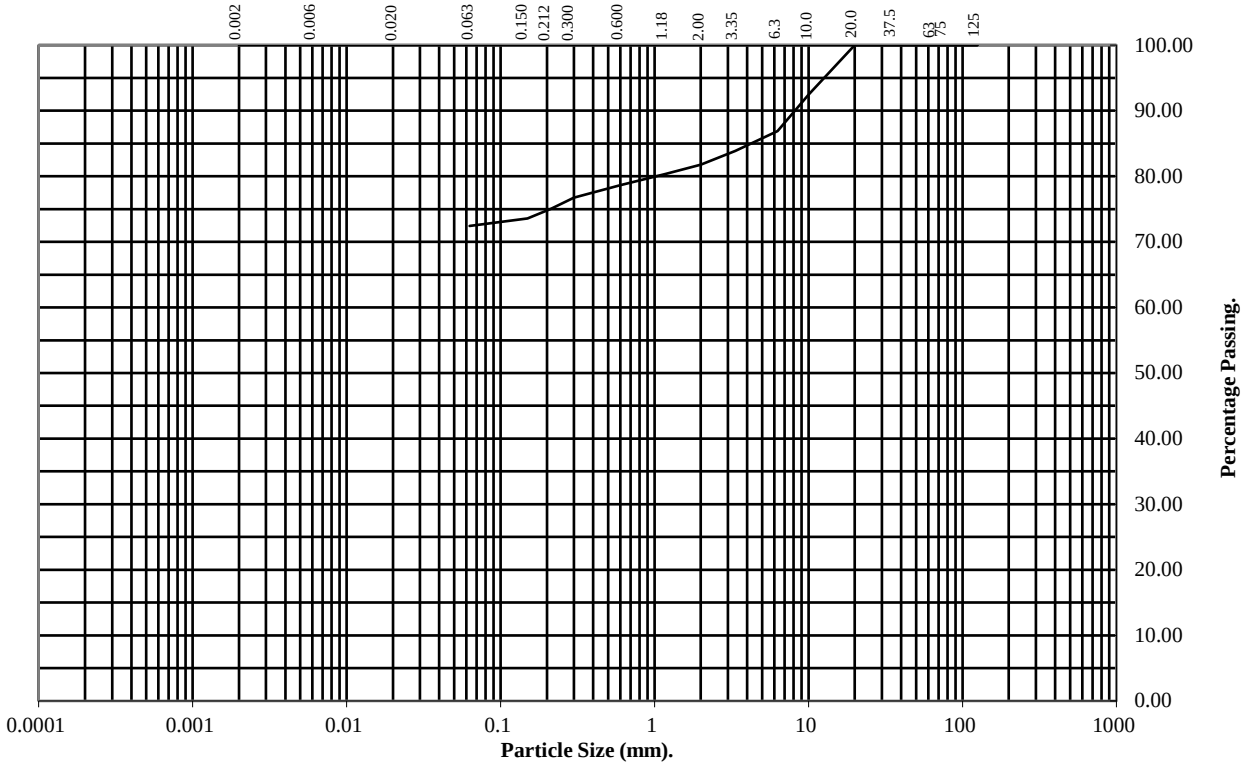
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP76** **Top Depth (m):** **1.60**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	92
6.3	87
3.35	84
2	82
1.18	80
0.6	79
0.3	77
0.212	75
0.15	74
0.063	72

Soil Fraction	Total Percentage
Cobbles	0
Gravel	18
Sand	10
Silt/Clay	72

Remarks:

See Summary of Soil Descriptions

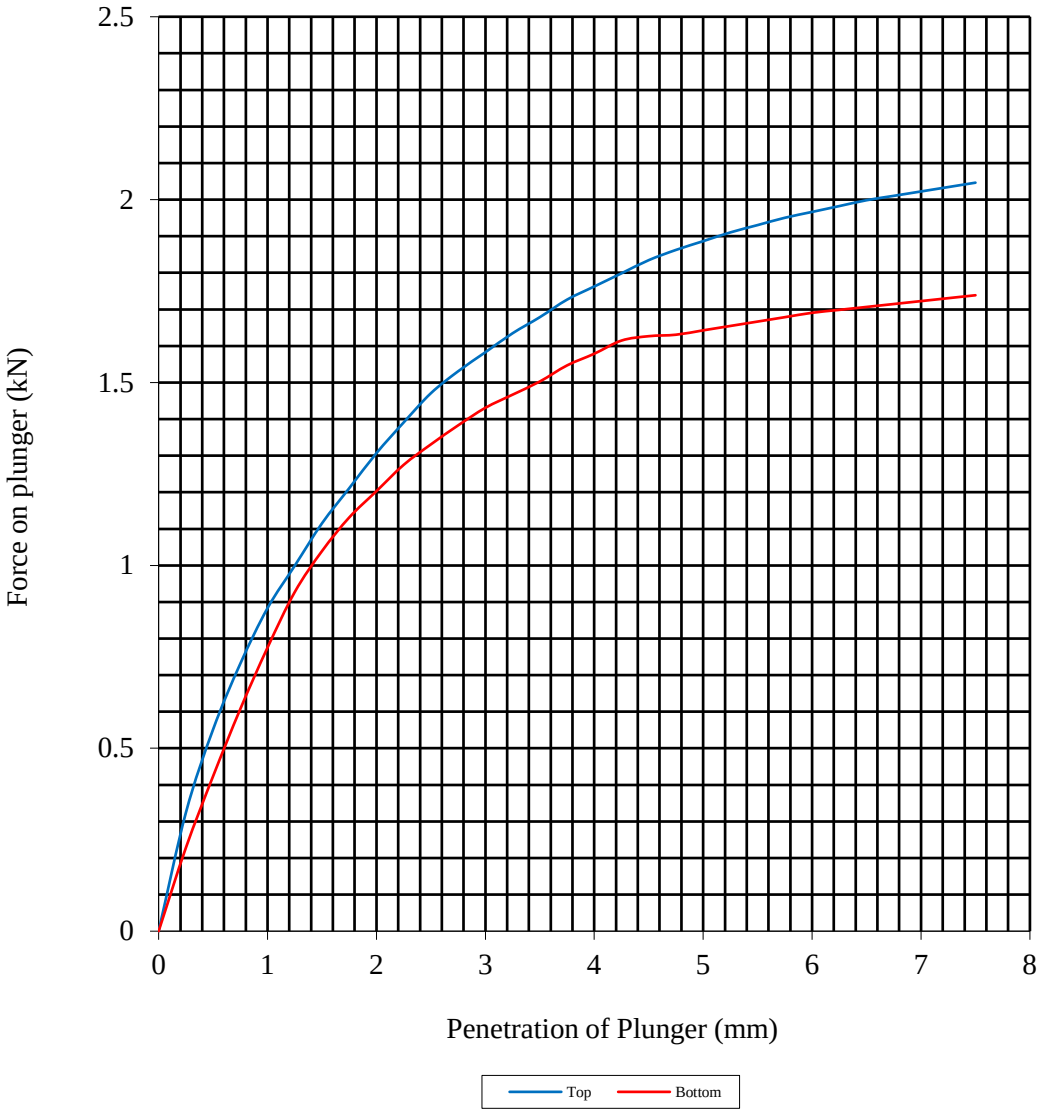
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: TP76 **Top Depth (m):** 1.60

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	17	Surcharge Kg:	4.20	Sample Top	17	Sample Top	11.1
Bulk Density Mg/m3:	2.04	Soaking Time hrs	0	Sample Bottom	17	Sample Bottom	10.1
Dry Density Mg/m3:	1.74	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

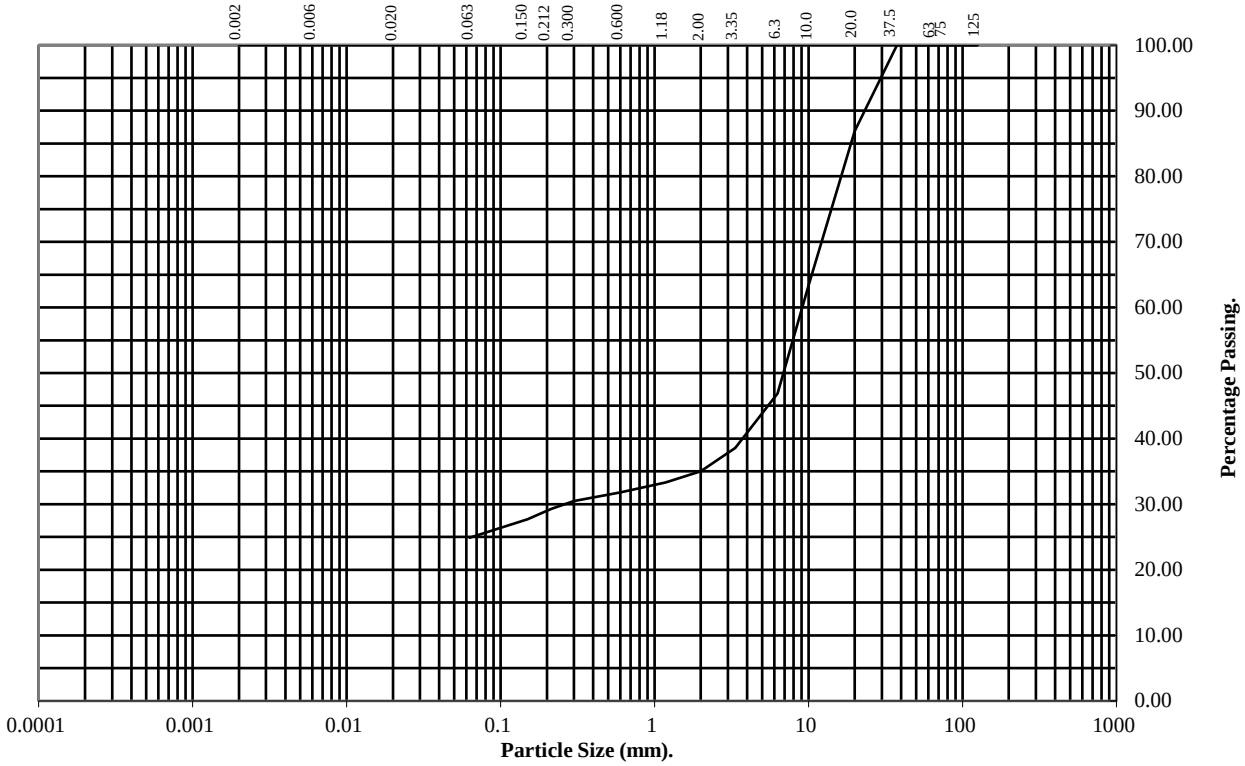
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP82** **Top Depth (m):** **2.20**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	87
10	63
6.3	47
3.35	39
2	35
1.18	33
0.6	32
0.3	30
0.212	29
0.15	28
0.063	25

Soil Fraction	Total Percentage
Cobbles	0
Gravel	65
Sand	10
Silt/Clay	25

Remarks:

See Summary of Soil Descriptions

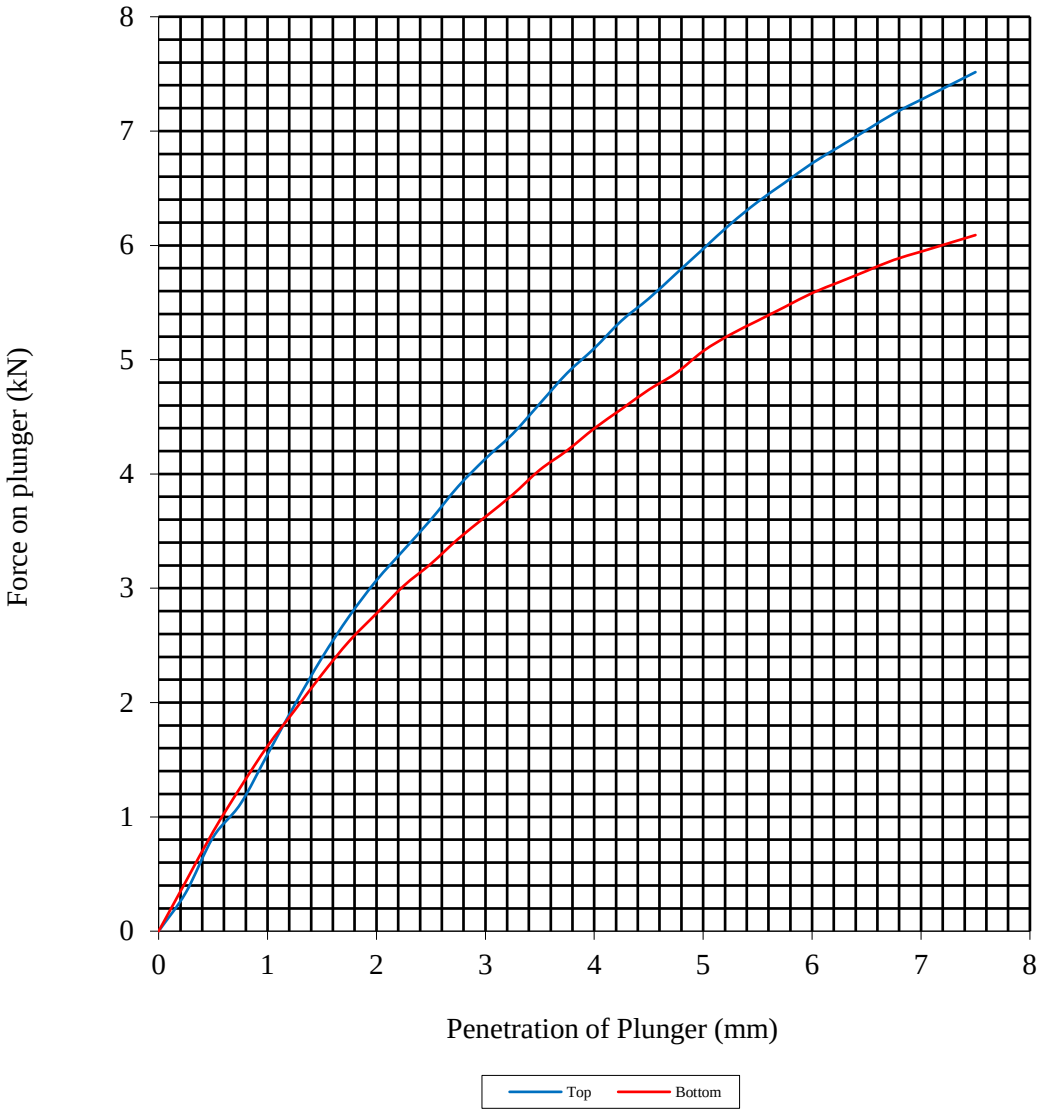
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: TP82 **Top Depth (m):** 2.20

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	10	Surcharge Kg:	4.20	Sample Top	10	Sample Top	29.8
Bulk Density Mg/m3:	2.11	Soaking Time hrs	0	Sample Bottom	10	Sample Bottom	25.4
Dry Density Mg/m3:	1.92	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			13				
Compaction Conditions		2.5kg					

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PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

PARTICLE SIZE DISTRIBUTION TEST

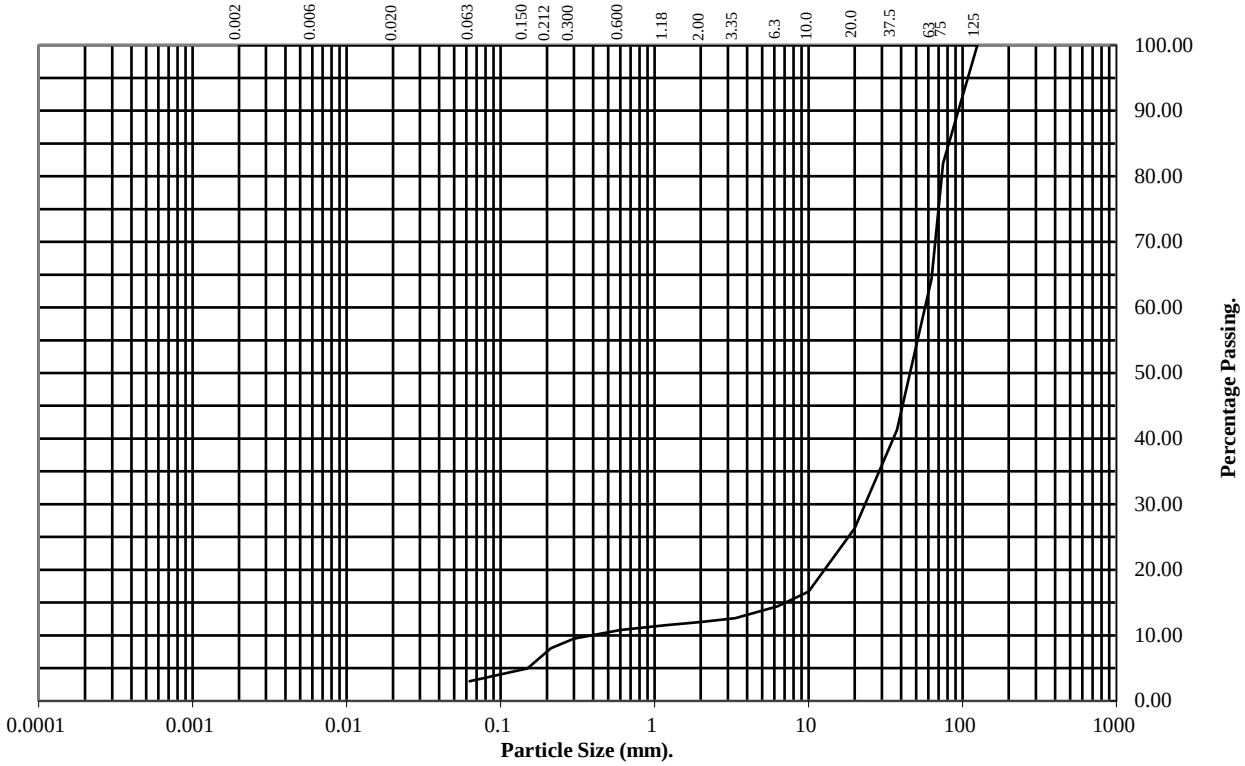
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP86** **Top Depth (m):** **2.20**

Sample Number: **Base Depth(m):**

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	82
63	64
37.5	41
20	26
10	17
6.3	14
3.35	13
2	12
1.18	12
0.6	11
0.3	9
0.212	8
0.15	5
0.063	3

Soil Fraction	Total Percentage
Cobbles	36
Gravel	52
Sand	9
Silt/Clay	3

Remarks:

See Summary of Soil Descriptions

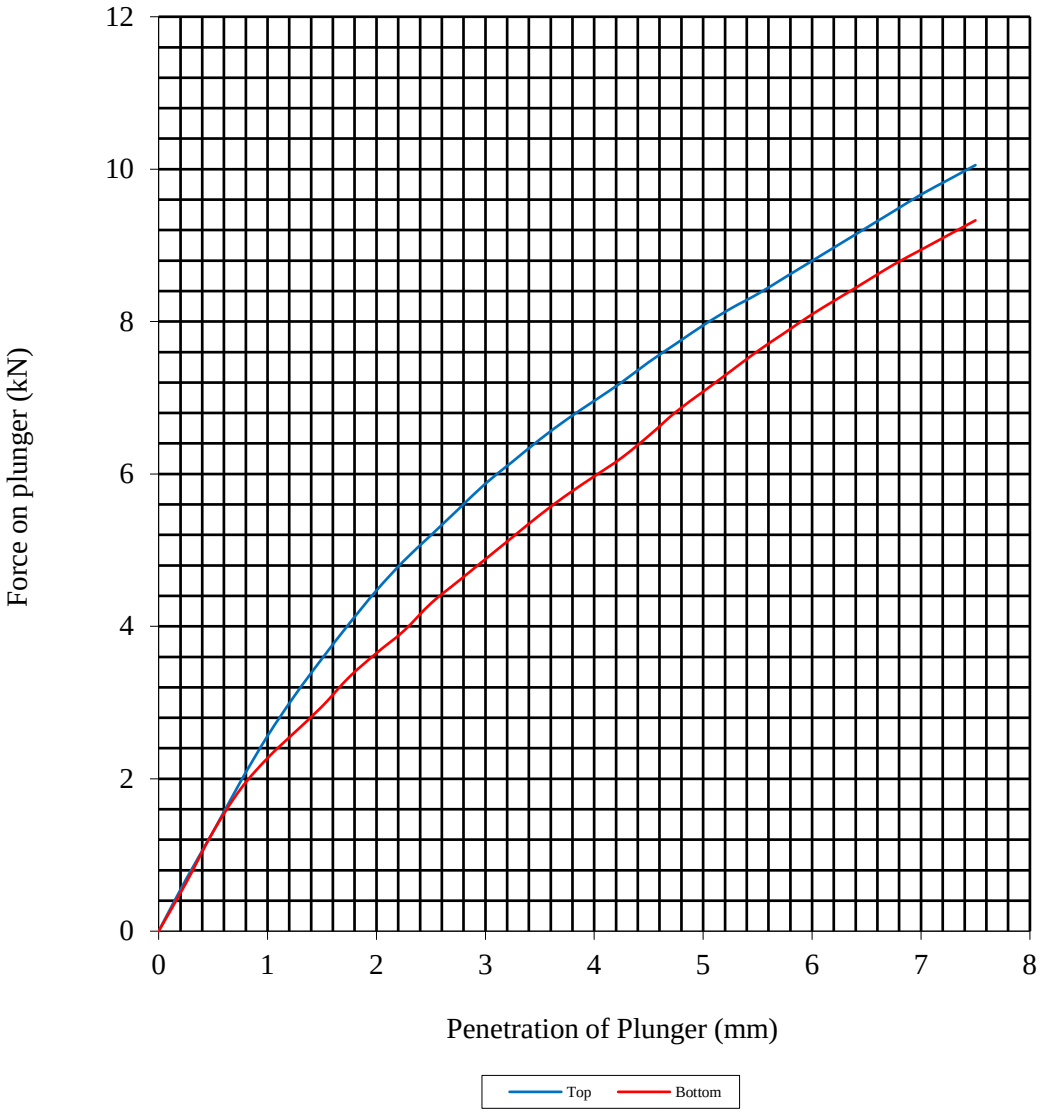
CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

Hole Number: TP86 **Top Depth (m):** 2.20

Sample Number: **Base Depth (m):**

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	7.0	Surcharge Kg:	4.20	Sample Top	6.9	Sample Top	39.8
Bulk Density Mg/m3:	2.02	Soaking Time hrs	0	Sample Bottom	7.2	Sample Bottom	35.4
Dry Density Mg/m3:	1.88	Swelling mm:	0	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			74				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Monkton

Contract No: PSL20/2909

Client Ref:

Certificate of Analysis

Certificate Number	20-11066	01-Jul-20
Client	Professional Soils Laboratory Ltd 5/7 Hexthorpe Road Hexthorpe DN4 0AR	

Our Reference	20-11066
Client Reference	PSL20/2909
Order No	(not supplied)
Contract Title	Monkton
Description	8 Soil samples.
Date Received	23-Jun-20
Date Started	23-Jun-20
Date Completed	01-Jul-20
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Soil Samples

Our Ref 20-11066
Client Ref PSL20/2909
Contract Title Monkton

				Lab No	1688023	1688024	1688025	1688026	1688027	1688028	1688029	1688030
				Sample ID	TP76	TP52	TP86	TP82	TP63	TP19	TP32	TP73
				Depth	1.60	1.50	2.20	2.20	1.60	1.00-1.40	1.70	2.50
				Other ID								
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
				Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**									
Inorganics												
Sulphate as SO4, Total	DETSC 2321#	0.01	%		0.05	0.04	0.06	0.01	0.02	< 0.01	0.06	0.05

Key: # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 20-11066
Client Ref PSL20/2909
Contract Monkton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1688023	TP76 1.60 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688024	TP52 1.50 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688025	TP86 2.20 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688026	TP82 2.20 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688027	TP63 1.60 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688028	TP19 1.00-1.40 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688029	TP32 1.70 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	
1688030	TP73 2.50 SOIL		PT 1L	Sample date not supplied, Total Sulphate ICP (30 days)	

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 1

Project:	Client: Geoz.	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	16		4.1			8.1			12.1		
0.2	17		4.2			8.2			12.2		
0.3	18		4.3			8.3			12.3		
0.4	20		4.4			8.4			12.4		
0.5	20		4.5			8.5			12.5		
0.6	8		4.6			8.6			12.6		
0.7	9		4.7			8.7			12.7		
0.8	7		4.8			8.8			12.8		
0.9	5		4.9			8.9			12.9		
1.0	3		5.0			9.0			13.0		
1.1	5		5.1			9.1			13.1		
1.2	7		5.2			9.2			13.2		
1.3	6		5.3			9.3			13.3		
1.4	12		5.4			9.4			13.4		
1.5	50		5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm^2):	15 /~~20 sm2~~
		Base Dia.	4.37 +-0.3 /~~50.5 +-0.5~~5

Signed	Driller I WILES	Client:	Drill Rig: Terrier

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
Tel: 01226 725050
E-Mail: enquires@cape-site.co.uk
Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 2

Project:	Client: Geo2	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	20		4.1			8.1			12.1		
0.2	30		4.2			8.2			12.2		
0.3	23		4.3			8.3			12.3		
0.4	40		4.4			8.4			12.4		
0.5	18		4.5			8.5			12.5		
0.6	18		4.6			8.6			12.6		
0.7	9		4.7			8.7			12.7		
0.8	7		4.8			8.8			12.8		
0.9	7		4.9			8.9			12.9		
1.0	50		5.0			9.0			13.0		
1.1			5.1			9.1			13.1		
1.2			5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	DPSH	
Weight	63.5 kg	
Drop Height	760 mm	
Cone	Area (cm^2):	15 /~~20 cm2~~
	Base Dia.	4.37 +-0.3 /~~50.5 +-0.5~~

Signed	Driller IWILES	Client:	**Drill Rig:** Terrier

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
Tel: 01226 725050
E-Mail: enquires@cape-site.co.uk
Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 3

Project:	Client: Geoz	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	10		4.1			8.1			12.1		
0.2	50		4.2			8.2			12.2		
0.3			4.3			8.3			12.3		
0.4			4.4			8.4			12.4		
0.5			4.5			8.5			12.5		
0.6			4.6			8.6			12.6		
0.7			4.7			8.7			12.7		
0.8			4.8			8.8			12.8		
0.9			4.9			8.9			12.9		
1.0			5.0			9.0			13.0		
1.1			5.1			9.1			13.1		
1.2			5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm^2):	15 /~~20 cm~~2
		Base Dia.	4.37 +-0.3 / ~~50.5 +- 0.5~~

Signed	Driller FWILES	Client:	Drill Rig: Terrier

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 4

Project:	Client: Geoz	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	10		4.1			8.1			12.1		
0.2	10		4.2			8.2			12.2		
0.3	20		4.3			8.3			12.3		
0.4	50		4.4			8.4			12.4		
0.5			4.5			8.5			12.5		
0.6			4.6			8.6			12.6		
0.7			4.7			8.7			12.7		
0.8			4.8			8.8			12.8		
0.9			4.9			8.9			12.9		
1.0			5.0			9.0			13.0		
1.1			5.1			9.1			13.1		
1.2			5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm^2):	15 /~~20 cm2~~
		Base Dia.	4.37 +-0.3 / ~~50.5 +-0.5~~

Signed	Driller I WILES	Client:	Drill Rig: Terries

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
Tel: 01226 725050
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Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 5

Project:	Client: Geoz	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	9		4.1			8.1			12.1		
0.2	14		4.2			8.2			12.2		
0.3	14		4.3			8.3			12.3		
0.4	18		4.4			8.4			12.4		
0.5	16		4.5			8.5			12.5		
0.6	13		4.6			8.6			12.6		
0.7	16		4.7			8.7			12.7		
0.8	10		4.8			8.8			12.8		
0.9	8		4.9			8.9			12.9		
1.0	8		5.0			9.0			13.0		
1.1	2		5.1			9.1			13.1		
1.2	2		5.2			9.2			13.2		
1.3	1		5.3			9.3			13.3		
1.4	2		5.4			9.4			13.4		
1.5	4		5.5			9.5			13.5		
1.6	4		5.6			9.6			13.6		
1.7	2		5.7			9.7			13.7		
1.8	1		5.8			9.8			13.8		
1.9	1		5.9			9.9			13.9		
2.0	2		6.0			10.0			14.0		
2.1	3		6.1			10.1			14.1		
2.2	6		6.2			10.2			14.2		
2.3	16		6.3			10.3			14.3		
2.4	25		6.4			10.4			14.4		
2.5	50		6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm^2):	15 /~~20 cm~~2
		Base Dia.	4.37 +-0.3 /~~50.5 +-0.5~~

Signed	Driller IWILES	Client:	Drill Rig: Terrier

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 6

Project:	Client: Geoz	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	8		4.1			8.1			12.1		
0.2	22		4.2			8.2			12.2		
0.3	18		4.3			8.3			12.3		
0.4	20		4.4			8.4			12.4		
0.5	13		4.5			8.5			12.5		
0.6	9		4.6			8.6			12.6		
0.7	7		4.7			8.7			12.7		
0.8	6		4.8			8.8			12.8		
0.9	2		4.9			8.9			12.9		
1.0	2		5.0			9.0			13.0		
1.1	3		5.1			9.1			13.1		
1.2	3		5.2			9.2			13.2		
1.3	1		5.3			9.3			13.3		
1.4	2		5.4			9.4			13.4		
1.5	1		5.5			9.5			13.5		
1.6	1		5.6			9.6			13.6		
1.7	1		5.7			9.7			13.7		
1.8	50		5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	~~DPH~~ / DPSH	
Weight	~~50~~ / 63.5 kg	
Drop Height	~~500~~ / 760 mm	
Cone	Area (cm^2):	15 / ~~20~~
	Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed	Driller: J WILES	Client:	**Drill Rig:** Terrier

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
Tel: 01226 725050
E-Mail: enquires@cape-site.co.uk
Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 7

Project:	Client: Geoz	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	9		4.1			8.1			12.1		
0.2	11		4.2			8.2			12.2		
0.3	15		4.3			8.3			12.3		
0.4	11		4.4			8.4			12.4		
0.5	8		4.5			8.5			12.5		
0.6	7		4.6			8.6			12.6		
0.7	3		4.7			8.7			12.7		
0.8	2		4.8			8.8			12.8		
0.9	2		4.9			8.9			12.9		
1.0	1		5.0			9.0			13.0		
1.1	3		5.1			9.1			13.1		
1.2	1		5.2			9.2			13.2		
1.3	2		5.3			9.3			13.3		
1.4	2		5.4			9.4			13.4		
1.5	1		5.5			9.5			13.5		
1.6	0		5.6			9.6			13.6		
1.7	0		5.7			9.7			13.7		
1.8	0		5.8			9.8			13.8		
1.9	0		5.9			9.9			13.9		
2.0	1		6.0			10.0			14.0		
2.1	2		6.1			10.1			14.1		
2.2	0		6.2			10.2			14.2		
2.3	0		6.3			10.3			14.3		
2.4	0		6.4			10.4			14.4		
2.5	1		6.5			10.5			14.5		
2.6	3		6.6			10.6			14.6		
2.7	4		6.7			10.7			14.7		
2.8	13		6.8			10.8			14.8		
2.9	30		6.9			10.9			14.9		
3.0	50		7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	~~DPH~~ / DPSH	
Weight	~~50~~ / 63.5 kg	
Drop Height	~~500~~ / 760 mm	
Cone	Area (cm^2):	15 / ~~20~~
	Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed Driller: I WILES | Client: | **Drill Rig:** Terrier

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
Tel: 01226 725050
E-Mail: enquires@cape-site.co.uk
Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 8

Project:	Client: Geo 2	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1			4.1			8.1			12.1		
0.2			4.2			8.2			12.2		
0.3			4.3			8.3			12.3		
0.4	10		4.4			8.4			12.4		
0.5	10		4.5			8.5			12.5		
0.6	15		4.6			8.6			12.6		
0.7	7		4.7			8.7			12.7		
0.8	9		4.8			8.8			12.8		
0.9	10		4.9			8.9			12.9		
1.0	10		5.0			9.0			13.0		
1.1	12		5.1			9.1			13.1		
1.2	50		5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	~~DPH~~ / DPSH	
Weight	~~50~~ / 63.5 kg	
Drop Height	~~500~~ / 760 mm	
Cone	Area (cm^2):	15 / ~~20~~
	Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed	Driller: I WILES	Client:	Drill Rig: Terrier

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
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Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 9

Project:	Client: Geo 2	Project No:	Date: 8/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1			4.1	9		8.1			12.1		
0.2			4.2	8		8.2			12.2		
0.3			4.3	11		8.3			12.3		
0.4	6		4.4	11		8.4			12.4		
0.5	7		4.5	19		8.5			12.5		
0.6	6		4.6	50		8.6			12.6		
0.7	8		4.7			8.7			12.7		
0.8	7		4.8			8.8			12.8		
0.9	5		4.9			8.9			12.9		
1.0	1		5.0			9.0			13.0		
1.1	2		5.1			9.1			13.1		
1.2	1		5.2			9.2			13.2		
1.3	0		5.3			9.3			13.3		
1.4	1		5.4			9.4			13.4		
1.5	4		5.5			9.5			13.5		
1.6	1		5.6			9.6			13.6		
1.7	2		5.7			9.7			13.7		
1.8	1		5.8			9.8			13.8		
1.9	0		5.9			9.9			13.9		
2.0	1		6.0			10.0			14.0		
2.1	1		6.1			10.1			14.1		
2.2	0		6.2			10.2			14.2		
2.3	1		6.3			10.3			14.3		
2.4	0		6.4			10.4			14.4		
2.5	1		6.5			10.5			14.5		
2.6	0		6.6			10.6			14.6		
2.7	1		6.7			10.7			14.7		
2.8	0		6.8			10.8			14.8		
2.9	0		6.9			10.9			14.9		
3.0	0		7.0			11.0			15.0		
3.1	2		7.1			11.1					
3.2	2		7.2			11.2					
3.3	4		7.3			11.3					
3.4	2		7.4			11.4					
3.5	4		7.5			11.5					
3.6	4		7.6			11.6					
3.7	5		7.7			11.7					
3.8	6		7.8			11.8					
3.9	9		7.9			11.9					
4.0	9		8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPH / ~~DPSH~~	
	Weight	~~50~~ / 63.5 kg	
	Drop Height	~~500~~ / 760 mm	
	Cone	Area (cm^2):	15 / ~~20~~
		Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed	Driller: I WILES	Client:	Drill Rig: Terriers

Cape Site Services Ltd
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Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 10

Project:	Client: GEO2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	/		4.1			8.1			12.1		
0.2	/		4.2			8.2			12.2		
0.3	/		4.3			8.3			12.3		
0.4	6		4.4			8.4			12.4		
0.5	9		4.5			8.5			12.5		
0.6	9		4.6			8.6			12.6		
0.7	4		4.7			8.7			12.7		
0.8	6		4.8			8.8			12.8		
0.9	6		4.9			8.9			12.9		
1.0	4		5.0			9.0			13.0		
1.1	0		5.1			9.1			13.1		
1.2	4		5.2			9.2			13.2		
1.3	14		5.3			9.3			13.3		
1.4	5		5.4			9.4			13.4		
1.5	1		5.5			9.5			13.5		
1.6	2		5.6			9.6			13.6		
1.7	1		5.7			9.7			13.7		
1.8	1		5.8			9.8			13.8		
1.9	1		5.9			9.9			13.9		
2.0	1		6.0			10.0			14.0		
2.1	3		6.1			10.1			14.1		
2.2	1		6.2			10.2			14.2		
2.3	0		6.3			10.3			14.3		
2.4	1		6.4			10.4			14.4		
2.5	3		6.5			10.5			14.5		
2.6	2		6.6			10.6			14.6		
2.7	1		6.7			10.7			14.7		
2.8	1		6.8			10.8			14.8		
2.9	2		6.9			10.9			14.9		
3.0	1		7.0			11.0			15.0		
3.1	1		7.1			11.1					
3.2	1		7.2			11.2					
3.3	3		7.3			11.3					
3.4	5		7.4			11.4					
3.5	12		7.5			11.5					
3.6	15		7.6			11.6					
3.7	15		7.7			11.7					
3.8	16		7.8			11.8					
3.9	25		7.9			11.9					
4.0	50/		8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	~~DPH~~ / DPSH	
	Weight	~~50~~ / 63.5 kg	
	Drop Height	~~500~~ / 760 mm	
	Cone	Area (cm^2):	15 / ~~20~~
		Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed	Driller: I WILES	Client:	Drill Rig: TERRIER

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 11

Project:	Client: Geo 2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	/		4.1			8.1			12.1		
0.2	/		4.2			8.2			12.2		
0.3	/		4.3			8.3			12.3		
0.4	5		4.4			8.4			12.4		
0.5	12		4.5			8.5			12.5		
0.6	10		4.6			8.6			12.6		
0.7	7		4.7			8.7			12.7		
0.8	6		4.8			8.8			12.8		
0.9	5		4.9			8.9			12.9		
1.0	4		5.0			9.0			13.0		
1.1	2		5.1			9.1			13.1		
1.2	3		5.2			9.2			13.2		
1.3	2		5.3			9.3			13.3		
1.4	1		5.4			9.4			13.4		
1.5	1		5.5			9.5			13.5		
1.6	0		5.6			9.6			13.6		
1.7	0		5.7			9.7			13.7		
1.8	0		5.8			9.8			13.8		
1.9	0		5.9			9.9			13.9		
2.0	4		6.0			10.0			14.0		
2.1	3		6.1			10.1			14.1		
2.2	5		6.2			10.2			14.2		
2.3	1		6.3			10.3			14.3		
2.4	1		6.4			10.4			14.4		
2.5	1		6.5			10.5			14.5		
2.6	1		6.6			10.6			14.6		
2.7	1		6.7			10.7			14.7		
2.8	2		6.8			10.8			14.8		
2.9	1		6.9			10.9			14.9		
3.0	1		7.0			11.0			15.0		
3.1	1		7.1			11.1					
3.2	1		7.2			11.2					
3.3	1		7.3			11.3					
3.4	1		7.4			11.4					
3.5	0		7.5			11.5					
3.6	0		7.6			11.6					
3.7	1		7.7			11.7					
3.8	4		7.8			11.8					
3.9	30		7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	~~DPH~~ / DPSH	
	Weight	~~50~~ / 63.5 kg	
	Drop Height	~~500~~ / 760 mm	
	Cone	Area (cm^2):	15 / ~~20~~
		Base Dia.	43.7 +-0.3 / ~~50.5 +-0.5~~

Signed	Driller: J WILES	Client:	Drill Rig: TESTIES

Cape Site Services Ltd
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Tel: 01226 725050
E-Mail: enquires@cape-site.co.uk
Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 12

Project:	Client: Geo2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	/		4.1			8.1			12.1		
0.2	/		4.2			8.2			12.2		
0.3	/		4.3			8.3			12.3		
0.4	6		4.4			8.4			12.4		
0.5	50		4.5			8.5			12.5		
0.6	/		4.6			8.6			12.6		
0.7			4.7			8.7			12.7		
0.8			4.8			8.8			12.8		
0.9			4.9			8.9			12.9		
1.0			5.0			9.0			13.0		
1.1			5.1			9.1			13.1		
1.2			5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	~~DPH~~ / DPSH	
Weight	~~50~~ / 63.5 kg	
Drop Height	~~500~~ / 760 mm	
Cone	Area (cm^2):	15 / ~~20~~
	Base Dia.	43.7 +-0.3 / ~~50.5 +- 0.5~~

Signed Driller: [redacted] Client: **Drill Rig:** Testpit

Cape Site Services Ltd
Unit 2, Rear of Castle Buildings, Carlton Road, Carlton, Barnsley, S/Yorks. S71 3HX
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Website: www.cape-site.co.uk

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 13

Project:		Client: Geo2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	/		4.1			8.1			12.1		
0.2	/		4.2			8.2			12.2		
0.3	/		4.3			8.3			12.3		
0.4	/		4.4			8.4			12.4		
0.5	7		4.5			8.5			12.5		
0.6	16		4.6			8.6			12.6		
0.7	16		4.7			8.7			12.7		
0.8	6		4.8			8.8			12.8		
0.9	6		4.9			8.9			12.9		
1.0	2		5.0			9.0			13.0		
1.1	3		5.1			9.1			13.1		
1.2	2		5.2			9.2			13.2		
1.3	3		5.3			9.3			13.3		
1.4	8		5.4			9.4			13.4		
1.5	7		5.5			9.5			13.5		
1.6	8		5.6			9.6			13.6		
1.7	5		5.7			9.7			13.7		
1.8	4		5.8			9.8			13.8		
1.9	2		5.9			9.9			13.9		
2.0	2		6.0			10.0			14.0		
2.1	2		6.1			10.1			14.1		
2.2	4		6.2			10.2			14.2		
2.3	50/		6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations

Dynamic Probe Details

Type	DPSH	
Weight	63.5 kg	
Drop Height	760 mm	
Cone	Area (cm2):	15cm2
	Base Dia.	43.7 +- 0.3

Driller I WILES | Client: | **Drill Rig:** Dando terrier

Cape Site Services Ltd				Dynamic Probe Log			Probe No: 14				
Project:				Client: Geo2			Project No:			Date: 9/6/20	
Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	/		4.1	6		8.1			12.1		
0.2	/		4.2	6		8.2			12.2		
0.3	/		4.3	5		8.3			12.3		
0.4	4		4.4	5		8.4			12.4		
0.5	5		4.5	5		8.5			12.5		
0.6	9		4.6	5		8.6			12.6		
0.7	6		4.7	7		8.7			12.7		
0.8	5		4.8	9		8.8			12.8		
0.9	4		4.9	17		8.9			12.9		
1.0	5		5.0	50 /		9.0			13.0		
1.1	8		5.1	/		9.1			13.1		
1.2	5		5.2			9.2			13.2		
1.3	4		5.3			9.3			13.3		
1.4	2		5.4			9.4			13.4		
1.5	0		5.5			9.5			13.5		
1.6	0		5.6			9.6			13.6		
1.7	1		5.7			9.7			13.7		
1.8	2		5.8			9.8			13.8		
1.9	0		5.9			9.9			13.9		
2.0	2		6.0			10.0			14.0		
2.1	2		6.1			10.1			14.1		
2.2	4		6.2			10.2			14.2		
2.3	8		6.3			10.3			14.3		
2.4	4		6.4			10.4			14.4		
2.5	4		6.5			10.5			14.5		
2.6	4		6.6			10.6			14.6		
2.7	1		6.7			10.7			14.7		
2.8	1		6.8			10.8			14.8		
2.9	0		6.9			10.9			14.9		
3.0	0		7.0			11.0			15.0		
3.1	0		7.1			11.1					
3.2	1		7.2			11.2					
3.3	0		7.3			11.3					
3.4	0		7.4			11.4					
3.5	3		7.5			11.5					
3.6	3		7.6			11.6					
3.7	7		7.7			11.7					
3.8	9		7.8			11.8					
3.9	10		7.9			11.9					
4.0	6		8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller I WILES	Client:	Drill Rig: Dando terrier

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 15

Project:		Client: Geoz	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1			4.1			8.1			12.1		
0.2			4.2			8.2			12.2		
0.3			4.3			8.3			12.3		
0.4			4.4			8.4			12.4		
0.5	4		4.5			8.5			12.5		
0.6	14		4.6			8.6			12.6		
0.7	11		4.7			8.7			12.7		
0.8	7		4.8			8.8			12.8		
0.9	4		4.9			8.9			12.9		
1.0	3		5.0			9.0			13.0		
1.1	4		5.1			9.1			13.1		
1.2	2		5.2			9.2			13.2		
1.3	9		5.3			9.3			13.3		
1.4	4		5.4			9.4			13.4		
1.5	9		5.5			9.5			13.5		
1.6	10		5.6			9.6			13.6		
1.7	7		5.7			9.7			13.7		
1.8	4		5.8			9.8			13.8		
1.9	50		5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller J WILES	Client:	Drill Rig: Dando terrier

Cape Site Services Ltd				Dynamic Probe Log			Probe No: 16				
Project:				Client: GEO2			Project No:			Date: 9/6/20	
Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	12		4.1			8.1			12.1		
0.2	18		4.2			8.2			12.2		
0.3	15		4.3			8.3			12.3		
0.4	12		4.4			8.4			12.4		
0.5	10		4.5			8.5			12.5		
0.6	9		4.6			8.6			12.6		
0.7	11		4.7			8.7			12.7		
0.8	7		4.8			8.8			12.8		
0.9	6		4.9			8.9			12.9		
1.0	4		5.0			9.0			13.0		
1.1	5		5.1			9.1			13.1		
1.2	4		5.2			9.2			13.2		
1.3	4		5.3			9.3			13.3		
1.4	5		5.4			9.4			13.4		
1.5	3		5.5			9.5			13.5		
1.6	2		5.6			9.6			13.6		
1.7	1		5.7			9.7			13.7		
1.8	1		5.8			9.8			13.8		
1.9	1		5.9			9.9			13.9		
2.0	1		6.0			10.0			14.0		
2.1	5		6.1			10.1			14.1		
2.2	3		6.2			10.2			14.2		
2.3	3		6.3			10.3			14.3		
2.4	3		6.4			10.4			14.4		
2.5	3		6.5			10.5			14.5		
2.6	10		6.6			10.6			14.6		
2.7	11		6.7			10.7			14.7		
2.8	5		6.8			10.8			14.8		
2.9	4		6.9			10.9			14.9		
3.0	4		7.0			11.0			15.0		
3.1	9		7.1			11.1					
3.2	6		7.2			11.2					
3.3	11		7.3			11.3					
3.4	8		7.4			11.4					
3.5	7		7.5			11.5					
3.6	11		7.6			11.6					
3.7	50/		7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller I WILES	Client:	Drill Rig: Dando terrier

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 17

Project:		Client: GEO2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	10		4.1			8.1			12.1		
0.2	12		4.2			8.2			12.2		
0.3	11		4.3			8.3			12.3		
0.4	14		4.4			8.4			12.4		
0.5	14		4.5			8.5			12.5		
0.6	14		4.6			8.6			12.6		
0.7	14		4.7			8.7			12.7		
0.8	11		4.8			8.8			12.8		
0.9	8		4.9			8.9			12.9		
1.0	7		5.0			9.0			13.0		
1.1	5		5.1			9.1			13.1		
1.2	5		5.2			9.2			13.2		
1.3	3		5.3			9.3			13.3		
1.4	4		5.4			9.4			13.4		
1.5	4		5.5			9.5			13.5		
1.6	4		5.6			9.6			13.6		
1.7	3		5.7			9.7			13.7		
1.8	3		5.8			9.8			13.8		
1.9	2		5.9			9.9			13.9		
2.0	1		6.0			10.0			14.0		
2.1	1		6.1			10.1			14.1		
2.2	0		6.2			10.2			14.2		
2.3	1		6.3			10.3			14.3		
2.4	1		6.4			10.4			14.4		
2.5	2		6.5			10.5			14.5		
2.6	11		6.6			10.6			14.6		
2.7	6		6.7			10.7			14.7		
2.8	3		6.8			10.8			14.8		
2.9	2		6.9			10.9			14.9		
3.0	1		7.0			11.0			15.0		
3.1	5		7.1			11.1					
3.2	4		7.2			11.2					
3.3	8		7.3			11.3					
3.4	14		7.4			11.4					
3.5	50		7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller	IWILES	Client:	Drill Rig:	Dando terrier

Cape Site Services Ltd	Dynamic Probe Log	Probe No: 18

Project:	Client: Geo 2	Project No:	Date: 9/6/20

Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	19		4.1			8.1			12.1		
0.2	19		4.2			8.2			12.2		
0.3	20		4.3			8.3			12.3		
0.4	16		4.4			8.4			12.4		
0.5	16		4.5			8.5			12.5		
0.6	15		4.6			8.6			12.6		
0.7	14		4.7			8.7			12.7		
0.8	10		4.8			8.8			12.8		
0.9	8		4.9			8.9			12.9		
1.0	5		5.0			9.0			13.0		
1.1	5		5.1			9.1			13.1		
1.2	5		5.2			9.2			13.2		
1.3	3		5.3			9.3			13.3		
1.4	2		5.4			9.4			13.4		
1.5	2		5.5			9.5			13.5		
1.6	1		5.6			9.6			13.6		
1.7	0		5.7			9.7			13.7		
1.8	0		5.8			9.8			13.8		
1.9	1		5.9			9.9			13.9		
2.0	0		6.0			10.0			14.0		
2.1	2		6.1			10.1			14.1		
2.2	2		6.2			10.2			14.2		
2.3	1		6.3			10.3			14.3		
2.4	0		6.4			10.4			14.4		
2.5	0		6.5			10.5			14.5		
2.6	14		6.6			10.6			14.6		
2.7	15		6.7			10.7			14.7		
2.8	9		6.8			10.8			14.8		
2.9	8		6.9			10.9			14.9		
3.0	5		7.0			11.0			15.0		
3.1	3		7.1			11.1					
3.2	2		7.2			11.2					
3.3	4		7.3			11.3					
3.4	6		7.4			11.4					
3.5	9		7.5			11.5					
3.6	11		7.6			11.6					
3.7	9		7.7			11.7					
3.8	50/		7.8			11.8					
3.9	/		7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller: I WILES	Client:	Drill Rig: Dando terrier

Cape Site Services Ltd				Dynamic Probe Log			Probe No: 19				
Project:				Client: Geo2			Project No:			Date: 9/6/20	
Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)	Depth (m bgl)	Blows	Torque (N/m)
0.1	10		4.1			8.1			12.1		
0.2	12		4.2			8.2			12.2		
0.3	11		4.3			8.3			12.3		
0.4	8		4.4			8.4			12.4		
0.5	9		4.5			8.5			12.5		
0.6	8		4.6			8.6			12.6		
0.7	7		4.7			8.7			12.7		
0.8	3		4.8			8.8			12.8		
0.9	0		4.9			8.9			12.9		
1.0	0		5.0			9.0			13.0		
1.1	5		5.1			9.1			13.1		
1.2	50/		5.2			9.2			13.2		
1.3			5.3			9.3			13.3		
1.4			5.4			9.4			13.4		
1.5			5.5			9.5			13.5		
1.6			5.6			9.6			13.6		
1.7			5.7			9.7			13.7		
1.8			5.8			9.8			13.8		
1.9			5.9			9.9			13.9		
2.0			6.0			10.0			14.0		
2.1			6.1			10.1			14.1		
2.2			6.2			10.2			14.2		
2.3			6.3			10.3			14.3		
2.4			6.4			10.4			14.4		
2.5			6.5			10.5			14.5		
2.6			6.6			10.6			14.6		
2.7			6.7			10.7			14.7		
2.8			6.8			10.8			14.8		
2.9			6.9			10.9			14.9		
3.0			7.0			11.0			15.0		
3.1			7.1			11.1					
3.2			7.2			11.2					
3.3			7.3			11.3					
3.4			7.4			11.4					
3.5			7.5			11.5					
3.6			7.6			11.6					
3.7			7.7			11.7					
3.8			7.8			11.8					
3.9			7.9			11.9					
4.0			8.0			12.0					

Notes/observations	Dynamic Probe Details		
	Type	DPSH	
	Weight	63.5 kg	
	Drop Height	760 mm	
	Cone	Area (cm2):	15cm2
		Base Dia.	43.7 +- 0.3

Driller I WILES	Client:	Drill Rig: Dando terrier

SPT Data	Depth (m)				
Well ID	**1-1.45**	**2-2.45**	**3-3.45**	**4-4.45**	**5-5.45**
WS20-01	6	(1.7m) 50			
WS20-02B	20	(1.6m) 50			
WS20-03	10	2	4		
WS20-04	5	1	19		
WS20-5C	4	15			
WS20-06A	27				
WS20-06B	4	50			
WS20-7C	37				
WS20-9E	37	(1.5m) 19			
WS20-10	10	17	15	22	
WS20-101	2	4	3	5	5
WS20-102	3	7	4	50	
WS20-103	4	2	14	0	50
WS20-104	9	4	12	50	
WS20-105	3	2	21		
WS20-106	2	3	2	18	

Appendix E

Ground Gas Data

Ground Gas Data
Monckton Coking Works

Equipment Used	
Gas Meter:	GA5000
PID:	Mini Rae Lite
Interface Probe:	Solinst 122

Borehole ID	WS20-01												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	0.6	19.8	0	0	0	0.1	79.7	1010	0.05	0	-	1.504
05.06.20	0	6	11.3	0	0	0	0.1	82.6	989	-0.03	0.1	-	1.509
18.06.20	0	4.8	10.2	0	0	1	0	85	1004	0.03	0.1	1.179	1.512
29.06.20	0	0.5	20.7	0	0	0	0	78.8	994	0.07	0.1	1.432	1.51
08.07.20	0	1.5	13.5	0	0	0		85	1009	0.09	0.2	1.43	1.4515
17.07.20	0	0.5	19.4	0	0	1	0	80.1	1011	0.07	0.3	1.421	1.501
Max	0	6	20.7	0	0	1	0.1	85	1011	0.09	0.3	1.432	1.512
Min	0	0.5	10.2	0	0	0	0	78.8	989	-0.03	0	1.179	1.4515
Mean	0	2.316666667	15.81666667	0	0	0.333333333	0.04	81.8666667	1002.833333	0.046666667	0.13333333	1.3655	1.497916667
Max GSV		0.018		0									
Average GSV		0.003088889		0									

Borehole ID	WS20-02												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	0.3	19.8	0	1	0	0.2	79.9	1013	0.05	-0.1	-	1.527
05.06.20	0	0.6	14.5	0	0	0	0	84.9	989	0.07	0.1	-	1.535
18.06.20	0	4.8	0.7	0	0	1	0	97.2	1004	0.03	0.1	1.394	1.556
29.06.20	0	2.3	1.2	0	0	0	0	96.6	995	0	0.1	-	1.556
08.07.20	0	1.4	1.7	0	0	0		96.9	1009	0.09	0.3	1.396	1.55
17.07.20	0	1.9	1.9	0	0	0	0	96.8	1012	0.07	0.3	-	1.539
Max	0	4.8	19.8	0	1	1	0.2	97.2	1013	0.09	0.3	1.396	1.556
Min	0	0.3	0.7	0	0	0	0	79.9	989	0	-0.1	1.394	1.527
Mean	0	1.883333333	6.633333333	0	0.166666667	0.166666667	0.04	92.05	1003.666667	0.051666667	0.13333333	1.395	1.543833333
Max GSV		0.0144		0									
Average GSV		0.002511111		0									

Borehole ID	WS20-03												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	5.1	13.3	0	1	1	0.4	81.6	1013	0.37	0	3.79	3.945
05.06.20	0	11.6	2.6	0	0	0	0	85.7	988	-0.05	0.1	3.859	3.963
18.06.20	0	9.5	3.8	0	1	0	0	86.6	1005	0.02	0.1	2.491	3.974
29.06.20	0	7.7	8.3	0	0	0	0	84	996	0	0.1	3.161	3.97
08.07.20	0	11.2	0.7	0	0	0		88.1	1009	0.05	0.2	3.025	3.957
17.07.20	0	10.8	1.2	0	1	0	0	88	1013	0.09	0.2	3.03	3.955
Max	0	11.6	13.3	0	1	1	0.4	88.1	1013	0.37	0.2	3.859	3.974
Min	0	5.1	0.7	0	0	0	0	81.6	988	-0.05	0	2.491	3.945
Mean	0	9.316666667	4.983333333	0	0.5	0.166666667	0.08	85.6666667	1004	0.08	0.11666667	3.226	3.960666667
Max GSV		0.0232		0									
Average GSV		0.010869444		0									

Borehole ID	WS20-04												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	3.1	15.7	0	0	0	0.2	81.2	1014	-0.99	0	-	2.768
05.06.20	0	6.7	13.2	0	0	0	0	80	989	-0.07	0.2	-	2.771
18.06.20	0	6.7	10.6	0	0	0	0	82.7	1006	0.07	0.1	-	2.794
29.06.20	0	6.6	16.2	0	0	0	0	77.2	996	0.09	0.1	-	2.781
08.07.20	0	5.9	14.7	0	0	0		79.4	1009	-0.02	0.2	2.763	2.8
17.07.20	0	2.3	13.8	0	0	0	0	80.9	1013	0.09	0.2	2.761	2.785
Max	0	6.7	16.2	0	0	0	0.2	82.7	1014	0.09	0.2	2.763	2.8
Min	0	2.3	10.6	0	0	0	0	77.2	989	-0.99	0	2.761	2.768
Mean	0	5.216666667	14.03333333	0	0	0	0.04	80.2333333	1004.5	-0.138333333	0.13333333	2.762	2.783166667
Max GSV		0.0134		0									
Average GSV		0.006955556		0									

Borehole ID	WS20-05												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	0.5	19.2	0	1	1	0	80.3	1015	0	-0.1	-	1.657
05.06.20	0	3.1	15.8	0	0	0	0	81.1	989	-0.02	0.1	-	1.668
18.06.20	0	2.6	16.4	0	0	0	0	81.8	1005	0.07	0.1	-	1.678
29.06.20	0	2.6	17.8	0	0	0	0	79.6	996	0.05	0.1	-	1.662
08.07.20	0	2.5	17.9	0	0	0		79.6	1010	-0.02	0.2	-	1.667
17.07.20	0	1.9	16.8	0	1	0	0	81.3	1013	0.05	0.3	-	1.659
Max	0	3.1	19.2	0	1	1	0	81.8	1015	0.07	0.3	-	1.678
Min	0	0.5	15.8	0	0	0	0	79.6	989	-0.02	-0.1	-	1.657
Mean	0	2.2	17.31666667	0	0.333333333	0.166666667	0	80.6166667	1004.666667	0.021666667	0.11666667	-	1.665166667
Max GSV		0.0093		0									
Average GSV		0.002566667		0									

Borehole ID	WS20-06												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	3.6	13.4	0	1	0	0	82.8	1014	-0.12	-0.1	-	1.8
05.06.20	0	7	5.6	0	1	0	0	87.5	989	0	0.1	-	1.823
18.06.20	0	7.4	6.5	0	0	0	0	86.1	1005	0.03	0.1	-	1.832
29.06.20	0	3.1	13.1	0	0	0	0	83.5	996	0.03	0.1	-	1.822
08.07.20	0	6.2	8.6	0	1	0		85.2	1010	-0.02	0.2	-	1.834
17.07.20	0	7.5	3.2	0	3	0	0	89.3	1013	0	0.2	-	1.82
Max	0	7.5	13.4	0	3	0	0	89.3	1014	0.03	0.2	-	1.834
Min	0	3.1	3.2	0	0	0	0	82.8	989	-0.12	-0.1	-	1.8
Mean	0	5.8	8.4	0	1	0	0	85.7333333	1004.5	-0.013333333	0.1	-	1.821833333
Max GSV		0.015		0									
Average GSV		0.0058		0									

Borehole ID	WS20-09												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	1.5	19.1	0	1	0	0	79.4	1014	0.03	-0.1	-	1.337
05.06.20	0	2	17.9	0	2	0	2.3	80.1	988	0	0.1	-	1.33
18.06.20	0	0.5	21.4	0	0	0	0	80.7	1004	0	0.1	-	1.326
29.06.20	0	0.6	20.5	0	0	0	0	78.9	996	0.07	0.1	-	1.336
08.07.20	0	2.4	17.3	0	0	0		80.3	1008	0.12	-0.1	-	1.324
17.07.20	0	2.6	14.1	0	2	0	0	83.3	1013	0.03	0.3	-	1.327
Max	0	2.6	21.4	0	2	0	2.3	83.3	1014	0.12	0.3	-	1.337
Min	0	0.5	14.1	0	0	0	0	78.9	988	0	-0.1	-	1.324
Mean	0	1.6	18.38333333	0	0.833333333	0	0.46	80.45	1003.833333	0.041666667	0.06666667	-	1.33
Max GSV		0.0078		0									
Average GSV		0.001066667		0									

Borehole ID	WS20-10												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0.1	1	19.2	1	1	0	0.4	79.7	1014	-0.2	-0.1	3.327	4.16
05.06.20	0	0.9	19.4	0	1	0	0.1	79.7	989	0.02	0.1	3.209	4.151
18.06.20	0	1.1	16.2	0	0	0	0.1	82.7	1003	0.03	0.1	2.922	4.171
29.06.20	0	0.6	19.2	0	0	0	0	80.3	995	0.03	0.1	2.763	4.162
08.07.20	0	0.8	18.5	0	0	0		80.7	1008	0.1	0.1	2.68	4.156
17.07.20	0	0.6	18.7	0	3	0	0	81.3	1012	-0.02	0.2	2.389	4.164
Max	0.1	1.1	19.4	1	3	0	0.4	82.7	1014	0.1	0.2	3.327	4.171
Min	0	0.6	16.2	0	0	0	0	79.7	989	-0.2	-0.1	2.389	4.151
Mean	0.016666667	0.833333333	18.53333333	0.166666667	0.833333333	0	0.12	80.7333333	1003.5	-0.006666667	0.08333333	2.881666667	4.160666667
Max GSV		0.0022		0.002									
Average GSV		0.000694444		0.000138889									

Borehole ID	RBH1												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	0.3	20.3	0	0	1	0	79.4	1014	-2.21	0	7.451	15.941
05.06.20	0	0.5	21.1	0	0	0	0	78.4	989	0	0	7.535	15.951
18.06.20	0	0.5	21.2	0	0	0	0	78.2	1006	0	-5	7.614	16.015
29.06.20	0	0.5	21	0	0	0	0	78.5	996	0.05	-4.8	7.691	15.984
08.07.20	no plug											7.81	16.005
17.07.20	0	0.2	20	0	1	0	0	79.7	1013	0.09	0.2	7.61	15.975
Max	0	0.5	21.2	0	1	1	0	79.7	1014	0.09	0.2	7.81	16.015
Min	0	0.2	20	0	0	0	0	78.2	989	-2.21	-5	7.451	15.941
Mean	0	0.4	20.72	0	0.2	0.2	0	78.84	1003.6	-0.414	-1.92	7.6185	15.9785
Max GSV		0.001		0									
Average GSV		-0.00768		0									

Borehole ID	RBH1D												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	0.1	20.1	0	1	0	0.1	79.8	1014	-0.02	0	7.396	15.78
05.06.20	0	0.3	21.5	0	0	0	0	78.2	989	0	0.2	7.503	15.99
18.06.20	0	0.3	21.5	0	0	0	0	78.2	1005	-0.03	0.1	7.58	16.043
29.06.20	0	0.4	21.2	0	0	0	0	78.4	996	0.07	0.1	7.709	15.989
08.07.20	no plug											7.802	15.927
17.07.20	0	0.2	19.9	0	1	0	0	19.8	1013	0.09	0.2	7.575	15.897
Max	0	0.4	21.5	0	1	0	0.1	79.8	1014	0.09	0.2	7.802	16.043
Min	0	0.1	19.9	0	0	0	0	19.8	989	-0.03	0	7.396	15.78
Mean	0	0.26	20.84	0	0.4	0	0.02	66.88	1003.4	0.022	0.12	7.594166667	15.93766667
Max GSV		0.0008		0									
Average GSV		0.000312		0									

Borehole ID	RBH2												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	0.2	19.9	0	0	1	0.2	79.8	1013	0.03	0	7.421	15.688
05.06.20	0	0.5	19.5	0	0	0	0	79.6	988	-0.07	-5.1	7.53	15.713
18.06.20	0	0.3	21	0	0	0	0	78.7	1005	0.03	0.1	7.628	15.851
29.06.20	0	0.4	20.8	0	0	0	0	78.8	995	0.03	0.1	7.724	15.705
08.07.20	0	0.3	21	0	0	0		78.7	1009	0	-0.7	7.838	15.718
17.07.20	0	0.3	20.2	0	0	0	0	79.5	1012	0.05	-3.3	7.71	15.709
Max	0	0.5	21	0	0	1	0.2	79.8	1013	0.05	0.1	7.838	15.851
Min	0	0.2	19.5	0	0	0	0	78.7	988	-0.07	-5.1	7.421	15.688
Mean	0	0.333333333	20.4	0	0	0.166666667	0.04	79.1833333	1003.666667	0.011666667	-1.48333333	7.641833333	15.73066667
Max GSV		0.0005		0									
Average GSV		-0.004944444		0									

Borehole ID	RBH2A												
Date	CH4 (%v/v)	CO2 (%v/v)	O2 (%v/v)	Peak CH4 (%v/v)	CO (ppm)	H2S (ppm)	VOC (ppm)	Balance (%)	Baro (mb)	Relative Pressure (mb)	Flow (lit/hr)	Standing Water Level (mbgl)	Installation Base Depth (mbgl)
18.05.20	0	0.4	20.2	0	0	1	0.1	79.6	1013	-0.05	0	7.25	16.774
05.06.20	0	0.5	19.6	0	0	0	0	79.9	988	0	-3.9	7.37	17.2
18.06.20	0	0.5	19	0	0	0	0	80.4	1005	0.02	-4.5	7.463	16.894
29.06.20	0	0.5	20.8	0	0	0	0	79	995	0.03	-2.3	7.56	16.813
08.07.20	0	0.5	20.3	0	0	0		79.2	1009	0.05	-5.4	7.663	16.775
17.07.20	0	0.5	19.9	0	0	0	0	79.6	1012	0.09	-3.7	7.519	16.855
Max	0	0.5	20.8	0	0	1	0.1	80.4	1013	0.09	0	7.663	17.2
Min	0	0.4	19	0	0	0	0	79	988	-0.05	-5.4	7.25	16.774
Mean	0	0.483333333	19.96666667	0	0	0.166666667	0.02	79.6166667	1003.666667	0.023333333	-3.3	7.470833333	16.88516667
Max GSV		0		0									
Average GSV		-0.01595		0									

Borehole ID	RBH4												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	0.1	20.6	0	1	0	0	79.3	1014	0	0	10.137	17.53
05.06.20	0	0.5	17.3	0	0	0	0	82.6	989	0.02	-3.8	10.139	17.78
18.06.20	0	0.5	18.4	0	1	0	0	81	1005	0.02	-5.2	10.041	17.891
29.06.20	0	0.5	19.5	0	1	0	0	80	996	0.07	-3.6	10.135	17.812
08.07.20	0	0.5	19.4	0	0	0		80.1	1010	0.07	-6.6	10.197	17.805
17.07.20	0	0.5	20	0	2	0	0	79.5	1013	0.03	-2	9.629	17.81
Max	0	0.5	20.6	0	2	0	0	82.6	1014	0.07	0	10.197	17.891
Min	0	0.1	17.3	0	0	0	0	79.3	989	0	-6.6	9.629	17.53
Mean	0	0.433333333	19.2	0	0.833333333	0	0	80.4166667	1004.5	0.035	-3.53333333	10.04633333	17.77133333
Max GSV		0		0									
Average GSV		-0.015311111		0									

Borehole ID	RBH4A												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	0.5	19.4	0	1	1	0.4	80.1	1015	0	-0.1	9.995	19.09
05.06.20	0	1.4	16.1	0	0	0	0	82.6	989	0.02	0.1	10.081	19.261
18.06.20	0	0.5	20.3	0	0	0	0	79.2	1004	-0.02	0.1	9.401	19.267
29.06.20	0	0.5	19.8	0	0	0	0	79.6	996	0.07	0.1	10	19.332
08.07.20	0	0.5	20.6	0	0	0		78.9	1010	-0.02	-2.3	10.036	19.216
17.07.20	0	0.5	18.5	0	2	0	0	80.9	1013	0.03	0.2	9.51	19.259
Max	0	1.4	20.6	0	2	1	0.4	82.6	1015	0.07	0.2	10.081	19.332
Min	0	0.5	16.1	0	0	0	0	78.9	989	-0.02	-2.3	9.401	19.09
Mean	0	0.65	19.11666667	0	0.5	0.166666667	0.08	80.2166667	1004.5	0.013333333	-0.31666667	9.837166667	19.2375
Max GSV		0.0028		0									
Average GSV		-0.002058333		0									

Borehole ID	WS4												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	1.6	17.6	0	1	1	0.1	80.8	1014	0.1	0	-	3.141
05.06.20	0	2.7	13.6	0	0	0	0	83.7	989	0	0.2	-	3.119
18.03.20	0	1.8	16.4	0	0	0	0	81.8	1005	0	0.1	-	3.131
29.06.20	0	0.5	21.2	0	0	0	0	78.3	996	0.03	0	-	3.139
08.07.20	0	0.8	18.3	0	0	0		81	1010	0.05	0.2	-	3.142
17.07.20	0	1.1	17.4	0	1	1	0	81.5	1013	0.03	0.3	-	3.134
Max	0	2.7	21.2	0	1	1	0.1	83.7	1014	0.1	0.3	-	3.142
Min	0	0.5	13.6	0	0	0	0	78.3	989	0	0	-	3.119
Mean	0	1.416666667	17.41666667	0	0.333333333	0.333333333	0.02	81.1833333	1004.5	0.035	0.13333333	-	3.134333333
Max GSV		0.0081		0									
Average GSV		0.001888889		0									

Borehole ID	WS9												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0.1	0.1	20.4	0.1	1	0	0.1	79.4	1015	0.1	-0.1	2.497	3.792
05.06.20	0	2	21.4	0	1	0	0	78.3	989	0	0.1	2.578	3.743
18.06.20	0	0.5	20.1	0	0	0	0	79.4	1003	-0.05	-3.2	2.47	3.812
29.06.20	0	0.5	20.8	0	0	0	0	78.7	996	0.07	0.1	2.539	3.77
08.07.20	0	0.5	20.3	0	0	0		79.1	1008	0.09	-0.1		3.823
17.07.20	0	0.2	20.7	0	3	0	10.6	79.1	1013	0	0.2	2.218	3.779
Max	0.1	2	21.4	0.1	3	0	10.6	79.4	1015	0.1	0.2	2.578	3.823
Min	0	0.1	20.1	0	0	0	0	78.3	989	-0.05	-3.2	2.218	3.743
Mean	0.016666667	0.633333333	20.61666667	0.016666667	0.833333333	0	2.14	79	1004	0.035	-0.5	2.4604	3.7865
Max GSV		0.004		0.0002									
Average GSV		-0.003166667		-8.33333E-05									

Borehole ID	BH203												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0.1	0.7	19.6	0.1	1	0	0.1	79.6	1013	-0.19	-0.1	-	2.3
05.06.20	0	2	17.3	0	0	0	0	80.7	989	-0.02	0	-	2.304
18.06.20	0	0.9	19.3	0	0	0	0	79.8	1005	0.07	0.1	-	2.331
29.06.20	0	4.3	14.8	0	0	0	0	80.9	996	0.07	0.1	-	2.3
08.07.20													
17.07.20	0	0.5	19.6	0	1	0	0	19.9	1013	0.07	0.2	-	2.305

Max	0.1	4.3	19.6	0.1	1	0	0.1	80.9	1013	0.07	0.2	-	2.331
Min	0	0.5	14.8	0	0	0	0	19.9	989	-0.19	-0.1	-	2.3
Mean	0.02	1.68	18.12	0.02	0.4	0	0.02	68.18	1003.2	0	0.06	-	2.308
Max GSV		0.0086		0.0002									
Average GSV		0.001008		0.000012									

Borehole ID	BH305												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
18.05.20	0	0.4	20.8	0	1	0	0	78.8	1015	0.03	-3.9	15.096	
05.06.20	0	0.2	21.9	0	1	0	28.3	77.6	987	0.09	-2	15.272	29.585
18.06.20	0	0.5	21.4	0	0	0	0	78.2	1004	-0.02	-1.7	15.4	29.547
29.06.20	0	0.5	21.3	0	0	0	0	78.2	995	-0.02	-0.9	14.887	29.604
08.07.20	0	0.4	21.1	0	0	0		78.4	1008	0.05	-5.6	13.746	29.464
17.07.20	0	0.2	20.8	0	2	0	0	79.1	1013	0.05	-2.8	12.002	29.529

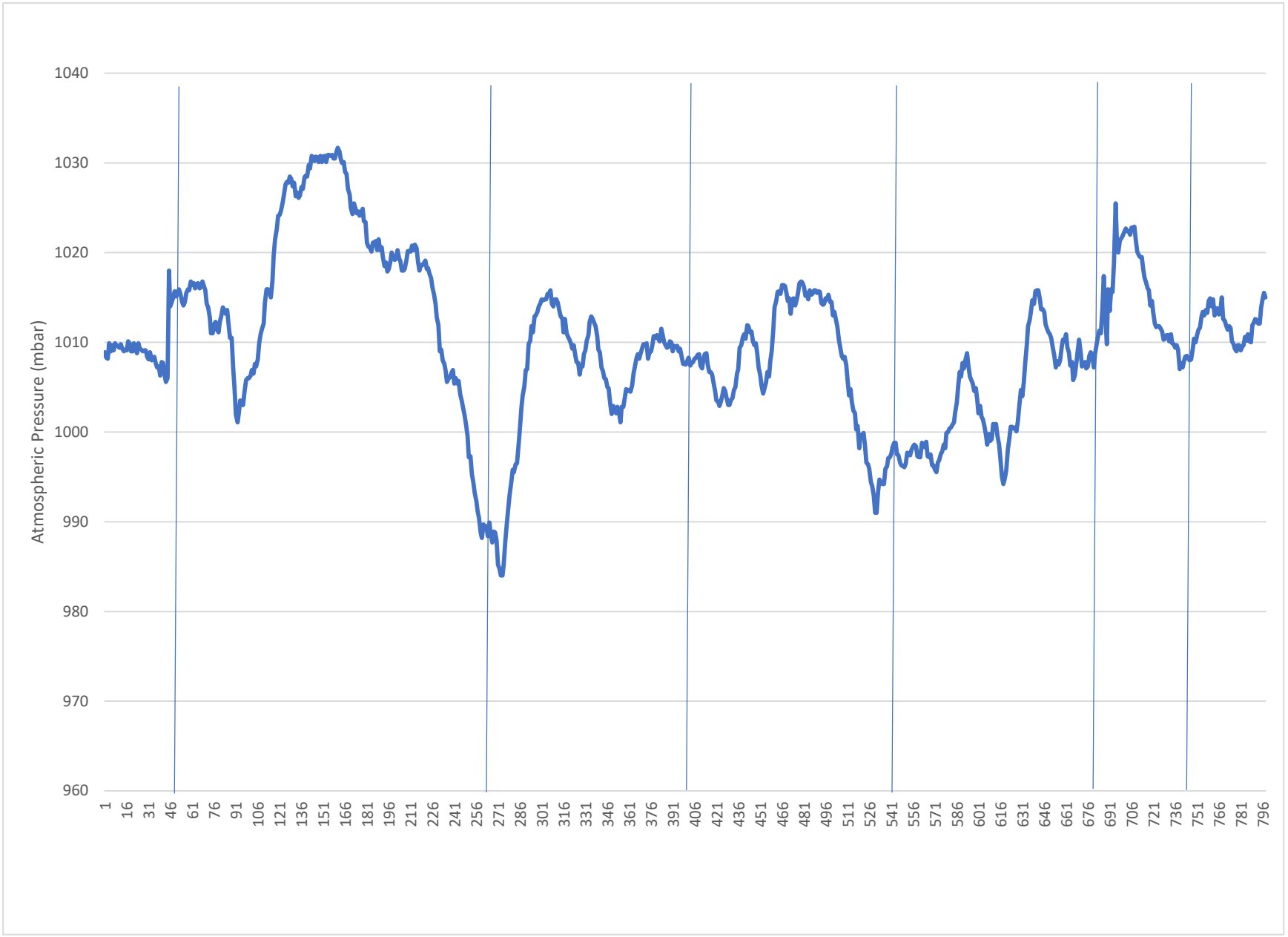
Max	0	0.5	21.9	0	2	0	28.3	79.1	1015	0.09	-0.9	15.4	29.604
Min	0	0.2	20.8	0	0	0	0	77.6	987	-0.02	-5.6	12.002	29.464
Mean	0	0.366666667	21.21666667	0	0.666666667	0	5.66	78.3833333	1003.666667	0.03	-2.81666667	14.4005	29.5458
Max GSV		-0.0045		0									
Average GSV		-0.010327778		0									

Borehole ID	BH201												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
05.06.20	0	0.6	20.4	0	0	0	0	79	989	0	0.1	5.987	12.803
18.06.20	0	0.5	21.1	0	0	0	0	78.4	1005	0.07	0.1	5.814	12.941
29.06.20	0	0.4	21	0	0	0	0	78.6	996	0.009	-0.3	5.592	12.891
08.07.20	0	0.4	20.8	0	0	0	0	78.8	1009	0.05	0	5.884	12.812
17.07.20	0	0.4	19.9	0	0	0	0	79.7	1013	0.07	0.2	5.571	12.869
Max	0	0.6	21.1	0	0	0	0	79.7	1013	0.07	0.2	5.987	12.941
Min	0	0.4	19.9	0	0	0	0	78.4	989	0	-0.3	5.571	12.803
Mean	0	0.46	20.64	0	0	0	0	78.9	1002.4	0.0398	0.02	5.7696	12.8632
Max GSV		0.0012		0									
Average GSV		0.000092		0									

Borehole ID	BH201A												
Date	**CH4 (%v/v)**	**CO2 (%v/v)**	**O2 (%v/v)**	**Peak CH4 (%v/v)**	**CO (ppm)**	**H2S (ppm)**	**VOC (ppm)**	**Balance (%)**	**Baro (mb)**	**Relative Pressure (mb)**	**Flow (lit/hr)**	**Standing Water Level (mbgl)**	**Installation Base Depth (mbgl)**
05.06.20	0	10.2	9.6	0	0	0	0	80.2	989	-0.03	0.1	2.875	3.407
18.06.20	0	0.5	21.2	0	0	0	0	78.3	1006	0.07	0.1	2.842	3.091
29.06.20	0	0.4	21	0	0	0	0	78.6	996	-0.02	0.1	2.846	3.106
08.07.20	0	1.5	18.4	0	0	0		80.2	1009	0.07	0.1	2.82	3.074
17.07.20	0	11.8	4.3	0	1	0	0	83.9	1013	0.09	0.3	2.808	3.102
Max	0	11.8	21.2	0	1	0	0	83.9	1013	0.09	0.3	2.875	3.407
Min	0	0.4	4.3	0	0	0	0	78.3	989	-0.03	0.1	2.808	3.074
Mean	0	4.88	14.9	0	0.2	0	0	80.24	1002.6	0.036	0.14	2.8382	3.156
Max GSV		0.0354		0									
Average GSV		0.006832		0									

Appendix F

Laboratory Results



Atmospheric Pressure Trends

Project Name:	Monckton
Project Number:	1015

Exceeds GAC

Lab Sample ID	Units	Limit of Detection	Method	20/04442/4	20-15490	20/04442/7	20/04442/5	20/04442/6	20/04462/2	20/04462/6	20/04462/8	20/04462/7	20-15490	20/04463/9	20/04463/7	20/04463/11	20/04463/6	20/04463/3	20/04463/8	20/04463/5	20/04463/4	20/04463/10	20-15490
Client Sample No				1019262									1019264										1019258
Client Sample ID				TP9	TP10	TP10	TP11	TP13	TP17	TP20	TP21	TP22	TP23	TP23	TP25	TP26	TP27	TP28	TP28	TP29	TP32	TP33	TP42
Depth to Top				0.5	SOIL	0.2	0.3	1.2	0.4	0.4	3	1	SOIL	1	1.5	1	1	1	0.50	0.5	0.5	1.1	
Depth to Bottom					0.1								0.5										0.1
Date Sampled				29-May-20	29-May-20	27-May-20	29-May-20	29-May-20	02-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	04-Jun-20
Sample Type				Soil		Soil	Soil	Soil	Solid	Soil	Solid	Solid		Soil	Soil	Solid	Solid	Soil	Soil	Soil	Solid	Solid	Soil
Sample Matrix Code				4ABE		4ABE	1AB	1AB	7	4A	7	7		6AB	4A	7	7	5A	6AB	6AE	7	7	
Lineside or Northern Catchment				L	L	L	L	L	L	L	L	L	N	N	N	N	N	N	N	N	N	N	N
% Stones >10mm	% w/w	0.1	A-T-044	21.2		14.5	15.2	16.3	<0.1		<0.1	<0.1		<0.1	1.9	<0.1	<0.1	<0.1	<0.1	7.6	<0.1	<0.1	
pH	pH	0.01	A-T-031s	7.11		4.84	6.25	4.97	11.45		7.73	4.88		8.49		8.68	10.24	6.47	6.5		12.56	8.17	
Moisture					1.9								11										6.9
Calorific Value					9.1								4.5										16
Sulphate (water sol 2:1)	g/l	0.01	A-T-026s					0.09															
Sulpjate (acid soluble)																							
Sulphur (total)	mg/kg	50	A-T-024s					239															
Cyanide (free)	mg/kg	1	A-T-042sFCN	2		38						173		8			5						
Cyanide (total)	mg/kg	1	A-T-042sTCN	499		7100						7880		125			333						
Thiocyanate	mg/kg	5	A-T-041s	8		<5						9		9			<5						
Total Organic Carbon	% w/w	0.03	A-T-032s				4.02	0.43											45.6				
Arsenic	mg/kg	1	A-T-024s	19		20					28	22		31	<1	3	18		14		<1		
Barium	mg/kg	1	A-T-024s	54		134					26	24		120	35	16	231		91		329		
Beryllium	mg/kg	0.5	A-T-024s	<0.5		0.8					<0.5	<0.5		1.1	0.7	<0.5	1.1		0.8		3.5		
Boron (water soluble)	mg/kg	1	A-T-027s	<1.0		<1.0																	
Cadmium	mg/kg	0.5	A-T-024s	2.1		2.6					<0.5	<0.5		1.4	<0.5	0.7	2.2		0.7		2.2		
Copper	mg/kg	1	A-T-024s	149		193					10	7		53	15	3	239		156		104		
Chromium	mg/kg	1	A-T-024s	31		107					14	6		20	25	3	584		17		6340		
Lead	mg/kg	1	A-T-024s	509		204					13	23		39	16	74	133		126		46		
Mercury	mg/kg	0.17	A-T-024s	6.27		9.66					0.45	0.36		0.45	0.31	0.79	24.9		1.43		1.04		
Nickel	mg/kg	1	A-T-024s	23		61					15	<1		34	22	1	39		23		90		
Selenium	mg/kg	1	A-T-024s	2		3					<1	<1		<1	<1	<1	2		<1		9		
Vanadium	mg/kg	1	A-T-024s	9		21					11	7		40	20	3	103		26		492		
Zinc	mg/kg	5	A-T-024s	118		347					33	19		114	32	36	219		167		107		
Asbestos in Soil (inc. matrix)																							
Asbestos in soil			A-T-045							NAD				Chrysotile					Amosite				
Asbestos Matrix (microscope)			A-T-045							-				Loose Fibres					Loose Fibres				
Asbestos ACM - Suitable for Water Absorption Test?			A-T-045							N/A				N/A					N/A				
Asbestos in Soil Quantification % (Hand Picking & Weighing)																							
Asbestos in soil % composition (hand picking and weighing)	% w/w	0.001	A-T-054											<0.001					<0.001				
Speciated PCB-WHO12																							
PCB BZ 81	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 105	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 114	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 118	mg/kg	0.007	A-T-004s																	<0.007			
PCB BZ 123	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 126	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 156	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 157	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 167	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 169	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 189	mg/kg	0.005	A-T-004s																	<0.005			
PCB BZ 77	mg/kg	0.005	A-T-004s																	<0.005			
Total Speciated PCB-WHO12	mg/kg	0.005	A-T-004s																	<0.007			

SVOC																							
Hexachlorobenzene	µg/kg	100	A-T-052s													<50000							
Diethyl phthalate	µg/kg	100	A-T-052s													<50000							
Dimethyl phthalate	µg/kg	100	A-T-052s													<50000							
Dibenzofuran	µg/kg	100	A-T-052s													1950000							
Carbazole	µg/kg	100	A-T-052s													691000							
Butylbenzyl phthalate	µg/kg	100	A-T-052s													<50000							
Bis(2-ethylhexyl)phthalate	µg/kg	500	A-T-052s													<250000							
Bis(2-chloroethoxy)methane	µg/kg	100	A-T-052s													<50000							
Bis(2-chloroethyl)ether	µg/kg	100	A-T-052s													<50000							
4-Nitrophenol	µg/kg	100	A-T-052s													<50000							
3+4-Methylphenol	µg/kg	100	A-T-052s													581000							
4-Chloro-3-methylphenol	µg/kg	100	A-T-052s													<50000							
2-Nitrophenol	µg/kg	100	A-T-052s													<50000							
2-Methylphenol	µg/kg	100	A-T-052s													578000							
2-Chlorophenol	µg/kg	100	A-T-052s													<50000							
2,6-Dinitrotoluene	µg/kg	100	A-T-052s													<50000							
2,4-Dinitrotoluene	µg/kg	100	A-T-052s													<50000							
2,4-Dimethylphenol	µg/kg	100	A-T-052s													437000							
2,4-Dichlorophenol	µg/kg	100	A-T-052s													<50000							
2,4,6-Trichlorophenol	µg/kg	100	A-T-052s													<50000							
2,4,5-Trichlorophenol	µg/kg	100	A-T-052s													<50000							
2-Chloronaphthalene	µg/kg	100	A-T-052s													<50000							
2-Methylnaphthalene	µg/kg	100	A-T-052s													1950000							
Acenaphthylene	µg/kg	100	A-T-052s													1140000							
Acenaphthene	µg/kg	100	A-T-052s													<50000							
Anthracene	µg/kg	100	A-T-052s													965000							
Benzo(a)anthracene	µg/kg	100	A-T-052s													987000							
Benzo(b)fluoranthene	µg/kg	100	A-T-052s													804000							
Benzo(k)fluoranthene	µg/kg	100	A-T-052s													358000							
Benzo(a)pyrene	µg/kg	100	A-T-052s													658000							
Benzo(ghi)perylene	µg/kg	100	A-T-052s													599000							
Chrysene	µg/kg	100	A-T-052s													995000							
Fluoranthene	µg/kg	100	A-T-052s													1740000							
Fluorene	µg/kg	100	A-T-052s													4810000							
Indeno(1,2,3-cd)pyrene	µg/kg	100	A-T-052s													649000							
Phenanthrene	µg/kg	100	A-T-052s													>4080000							
Pyrene	µg/kg	100	A-T-052s													1490000							
Naphthalene	µg/kg	100	A-T-052s													>8530000							
Dibenzo(ah)anthracene	µg/kg	100	A-T-052s													145000							
Bis(2-chloroisopropyl)ether	µg/kg	100	A-T-052s													<50000							
Phenol	µg/kg	100	A-T-052s													1090000							
Pentachlorophenol (SVOC)	µg/kg	100	A-T-052s													<50000							
n-Nitroso-n-dipropylamine	µg/kg	100	A-T-052s													<50000							
n-Dioctylphthalate	µg/kg	500	A-T-052s													<250000							
n-Dibutylphthalate	µg/kg	100	A-T-052s													<50000							
Nitrobenzene	µg/kg	100	A-T-052s													<50000							
Isophorone	µg/kg	100	A-T-052s													<50000							
Hexachloroethane	µg/kg	100	A-T-052s													<50000							
Hexachlorocyclopentadiene	µg/kg	100	A-T-052s													<50000							
Perylene	µg/kg	100	A-T-052s													231000							

VOC																							
Dichlorodifluoromethane	µg/kg	1	A-T-006s													<5							
Chloromethane	µg/kg	10	A-T-006s													<50							
Vinyl Chloride (Chloroethene)	µg/kg	1	A-T-006s													<5							
Bromomethane	µg/kg	1	A-T-006s													<5							
Chloroethane	µg/kg	1	A-T-006s													<5							
Trichlorofluoromethane	µg/kg	1	A-T-006s													<5							
1,1-Dichloroethene	µg/kg	1	A-T-006s													<5							
Carbon Disulphide	µg/kg	1	A-T-006s													79							
Dichloromethane	µg/kg	5	A-T-006s													<25							
trans 1,2-Dichloroethene	µg/kg	1	A-T-006s													<5							
1,1-Dichloroethane	µg/kg	1	A-T-006s													<5							
cis 1,2-Dichloroethene	µg/kg	1	A-T-006s													<5							
2,2-Dichloropropane	µg/kg	1	A-T-006s													<5							
Bromochloromethane	µg/kg	5	A-T-006s													<25							
Chloroform	µg/kg	1	A-T-006s													<5							
1,1,1-Trichloroethane	µg/kg	1	A-T-006s													<5							
1,1-Dichloropropene	µg/kg	1	A-T-006s													<5							
Carbon Tetrachloride	µg/kg	1	A-T-006s													<5							
1,2-Dichloroethane	µg/kg	2	A-T-006s													<10							
Benzene	µg/kg	1	A-T-006s													113000							
Trichloroethene	µg/kg	1	A-T-006s													<5							
1,2-Dichloropropane	µg/kg	1	A-T-006s													66							
Dibromomethane	µg/kg	1	A-T-006s													<5							
Bromodichloromethane	µg/kg	10	A-T-006s													<50							
cis 1,3-Dichloropropene	µg/kg	1	A-T-006s													<5							
Toluene	µg/kg	1	A-T-006s													62100							
trans 1,3-Dichloropropene	µg/kg	1	A-T-006s													<5							
1,1,2-Trichloroethane	µg/kg	1	A-T-006s													<5							
1,3-Dichloropropane	µg/kg	1	A-T-006s													<5							
Tetrachloroethene	µg/kg	1	A-T-006s													<5							
Dibromochloromethane	µg/kg	3	A-T-006s													<15							
1,2-Dibromoethane	µg/kg	1	A-T-006s													<5							
Chlorobenzene	µg/kg	1	A-T-006s													54							
1,1,1,2-Tetrachloroethane	µg/kg	1	A-T-006s													<5							
Ethylbenzene	µg/kg	1	A-T-006s													9030							
m & p Xylene	µg/kg	1	A-T-006s													28300							
o-Xylene	µg/kg	1	A-T-006s													26000							
Styrene	µg/kg	1	A-T-006s													12500							
Bromoform	µg/kg	1	A-T-006s													<5							
Isopropylbenzene	µg/kg	1	A-T-006s													664							
1,1,2,2-Tetrachloroethane	µg/kg	1	A-T-006s													<5							
1,2,3-Trichloropropane	µg/kg	1	A-T-006s													<5							
Bromobenzene	µg/kg	1	A-T-006s													<5							
n-Propylbenzene	µg/kg	1	A-T-006s													992							
2-Chlorotoluene	µg/kg	1	A-T-006s													<5							
1,3,5-Trimethylbenzene	µg/kg	1	A-T-006s													14700							
4-Chlorotoluene	µg/kg	1	A-T-006s													<5							
tert-Butylbenzene	µg/kg	2	A-T-006s													<10							
1,2,4-Trimethylbenzene	µg/kg	1	A-T-006s													6910							
sec-Butylbenzene	µg/kg	1	A-T-006s													<5							
4-Isopropyltoluene	µg/kg	1	A-T-006s													1370							
1,3-Dichlorobenzene	µg/kg	1	A-T-006s													<5							
1,4-Dichlorobenzene	µg/kg	1	A-T-006s													<5							
n-Butylbenzene	µg/kg	1	A-T-006s													<5							
1,2-Dichlorobenzene	µg/kg	1	A-T-006s													<5							
1,2-Dibromo-3-chloropropane (DCBP)	µg/kg	2	A-T-006s													<10							
1,2,4-Trichlorobenzene	µg/kg	3	A-T-006s													<15							
Hexachlorobutadiene	µg/kg	1	A-T-006s													<5							
1,2,3-Trichlorobenzene	µg/kg	3	A-T-006s													<15							

TPH CWG																							
Ali >C5-C6	mg/kg	0.01	A-T-022s	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	0.42	<0.01	0.17	<0.01	<0.01	0.06	<0.01	
Ali >C6-C8	mg/kg	0.01	A-T-022s	<0.01		<0.01		<0.01	<0.01		0.1	<0.01		<0.01	<0.01	2.2	<0.01	0.52	<0.01	<0.01	1.1	0.08	
Ali >C8-C10	mg/kg	1	A-T-055s	<5		<10		2	<1		16	<1		1	<10	<500	<10	<200	<20	<10	<200	<50	
Ali >C10-C12	mg/kg	1	A-T-055s	<5		<10		<1	<1		16	<1		<1	<10	711	<10	<200	<20	<10	584	<50	
Ali >C12-C16	mg/kg	1	A-T-055s	<5		47		<1	<1		404	2		5	<10	882	26	<200	59	37	950	139	
Ali >C16-C21	mg/kg	1	A-T-055s	5		53		<1	<1		1270	3		9	12	882	111	<200	254	109	448	162	
Ali >C21-C35	mg/kg	1	A-T-055s	57		198		6	<1		208	7		9	35	3440	1310	724	158	76	383	118	
Total Aliphatics	mg/kg	1	A-T-055s	62		308		10	<1		1910	13		24	48		1450	724	471	222	2370	419	
Aro >C5-C7	mg/kg	0.01	A-T-022s	0.3		1.35		0.41	<0.01		0.04	<0.01		0.02	0.06	197	<0.01	70.4	0.03	<0.01	32.4	0.25	
Aro >C7-C8	mg/kg	0.01	A-T-022s	0.47		1.07		0.53	<0.01		0.05	<0.01		0.01	0.01	185	<0.01	32.3	0.02	<0.01	68.3	2.2	
Aro >C8-C10	mg/kg	1	A-T-055s	6		23		3	<1		96	11		7	13	7170	17	1400	49	21	2820	377	
Aro >C10-C12	mg/kg	1	A-T-055s	6		114		2	<1		120	110		9	92	109000	62	36700	115	70	28500	3470	
Aro >C12-C16	mg/kg	1	A-T-055s	32		872		5	<1		1100	191		26	293	91700	434	34800	489	469	38800	17900	
Aro >C16-C21	mg/kg	1	A-T-055s	259		2020		7	<1		1350	534		68	931	105000	2050	39000	1470	1590	30900	4680	
Aro >C21-C35	mg/kg	1	A-T-055s	1360		4820		21	<1		1890	331		262	2760	101000	4390	24600	4240	3260	24900	1610	
Total Aromatics	mg/kg	1	A-T-055s	1660		7840		38	<1		4550	1180		371	4090		6940	137000	6370	5410	126000	28100	
TPH (Ali & Aro >C5-C35)	mg/kg	1	A-T-055s	1720		8150		48	<1		6460	1190		395	4150		8390	138000	6840	5630	129000	28400	
BTEX - Benzene	mg/kg	0.01	A-T-022s	0.3		1.35		0.41	<0.01		0.04	<0.01		0.02	0.06	197	<0.01	70.4	0.03	<0.01	32.4	0.25	
BTEX - Toluene	mg/kg	0.01	A-T-022s	0.47		1.07		0.53	<0.01		0.05	<0.01		0.01	0.01	185	<0.01	32.3	0.02	<0.01	68.3	2.2	
BTEX - Ethyl Benzene	mg/kg	0.01	A-T-022s	<0.01		0.02		<0.01	<0.01		4.21	<0.01		<0.01	0.02	5.99	<0.01	0.77	<0.01	<0.01	5.11	0.84	
BTEX - m & p Xylene	mg/kg	0.01	A-T-022s	0.17		0.31		0.19	<0.01		0.53	<0.01		<0.01	0.04	107	<0.01	17.9	0.02	0.01	63.4	9.3	
BTEX - o Xylene	mg/kg	0.01	A-T-022s	0.05		0.08		0.05	<0.01		1.09	<0.01		<0.01	0.04	38.9	<0.01	6.96	0.01	<0.01	25.5	4.41	
MTBE	mg/kg	0.01	A-T-022s	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.01	

20/04564/1	20/04564/4	20/04564/3	20/04564/2	20/03745/7	20/03745/8	20/03745/9	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/04442/1	20/04463/1	20/04462/5	20/04442/3	20/04462/4	20/04463/2	20/04462/3	20/04442/2	20/04462/9	20/04462/1	Number of Samples	Min	Max	No. >detection	RESI (WITH PLANT) UPTAKE	No > GAC
TP42	TP45	TP48	TP49	WS20-05C	WS20-06B	WS20-06B	WS20-07C	WS20-07B	WS20-09A	WS20-09A	BH19-02	BH19-02	BH19-03	BH19-04	BH19-04	BH19-05	BH19-06	BH19-07	BH19-07	BH19-08						
1	0.3	1.3	0.5	0.30	0.20	1.30	0.20	0.40	0.80	0.30	0.5	7	1	0.2	6	13.00	10.00	0.50		8.00						
			1									8			7	14.00	11.00			9.00						
05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20	04-May-20	04-May-20	04-May-20	05-May-20	05-May-20	05-May-20	05-May-20	27-May-20	03-Jun-20	02-Jun-20	28-May-20	01-Jun-20	03-Jun-20	01-Jun-20	28-May-20	02-Jun-20	02-Jun-20						
Solid	Solid	Soil	Soil	Soil	Soil	Soil	Solid	Solid	Soil	Soil	Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
7	7	6A	6ABE	4AB	4A	4AB	7	7	4A	1A	7	4A	4AB	4ABE	4A	5A	4AE	4ABE	4A	4A						
N	L	L	N	N	N	N	L	L	L	L	L	L	L	N	N	L	L	L	L	N						
<0.1	<0.1	8.6	34.5	26.8	9.2	2.8	<0.1	<0.1	9.3	18.5	<0.1	0.5	<0.1	16.1	<0.1	<0.1	<0.1	12	<0.1	<0.1						
11.69	11.33		10.73	7.92		7.66	11.71		6.89		9.33	8.4	7.11	7.99	7.91	8.22	8.31	8.14	8.36	7.93	31	4.84	31			
																					3	4.5	16			
		0.03											0.19								3	0.03	0.19			
				3200		1500			770												3	770	3200			
		287		1650		1230			632				1700								6	239	1700			
		<1			<1			1		<1		<1				<0.1	<1	<1	<1		14	<0.1	173	6		
		<1			9			23		<1		6				8.22	5	160	2		14	<1	7880	12		
		<5			<5			<5		<5		<5					<5	<5	<5		14	<5	9	3		
						9.89			5.9					0.34		8					7	0.34	45.6	-		
	12		8	9	5			13		<1	3		19					17			19	<1	31	16	37	0
	142		92								75		47					128			15	16	329	15	1300	0
	0.6		<0.5								0.6		<0.5					<0.5			15	<0.5	3.5	8	1.7	1
											<1.0							<1.0			4	<1.0	<1.0	0		
	0.7		0.7	<0.5	<0.5			0.7		<0.5	0.5		0.6					0.5			19	<0.5	2.6	13	22	0
	78		72	34	15			39		3	47		53					102			19	3	239	19	2400	0
	1210		731	18	14			15		10	14		20					17			19	3	6340	19	910	2
	150		86	71	8			470		5	40		365					584			19	5	584	19	200	5
	17.9		3.67	0.2	<0.17			0.57		0.35	0.52		12.7					2.21			19	<0.17	24.9	18	1.2	8
	22		29	17	11			25		10	14		15					21			19	<1	90	18	180	0
	2		1	<1	<1			<1		<1	<1		1					<1			19	1	9	7	250	0
	117		81								21		20					18			15	3	492	15	410	1
	100		125	48	25			47		17	29		51					82			19	17	347	19	3700	0
																						0	0			

																						0	0			
													Amosite & Crocidolite	NAD							5	NAD	-	3		
													LOOSE Fibres & Board									0	0			
													No	N/A								0	0			
																						0	0			
													0.017								3	<0.001	0.017	1		
																						0	0			

																						0	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.007	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.005	0			
																					1	<0.007	0			

<100000	<50000						<100000				<2000	<100				<100	<100	<20000	<1000		10	<100	0	0		
<100000	<50000						<100000				<2000	<100				<100	<100	<20000	<1000		10	<100	0	0		
<100000	<50000						<100000				<2000	<100				<100	<100	<20000	<1000		10	<100	0	0		
2930000	2310000						1520000				127000	71500				13600	278	355000	6960		10	278	2930000	10		
1530000	79400						489000				9220	3150				<100	<100	<20000	<1000		10	<100	1530000	6		
<100000	<50000						<100000				<2000	<100				<100	<100	<20000	<1000		10	<100	0	0		
<500000	<250000						<500000				<10000	<500				<500	<500	<100000	<5000		10	<500	0	0	2700	0
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74.9	19.4	0.03	0.04	<0.05	<0.05		74.3		15.7		7.02	0.1	<0.01		<0.01	2.79	<0.01	158	0.05		31	<0.01	197	22	70	5
60.5	18.5	0.09	0.01	<0.05	<0.05		70		12.7		2.94	0.22	<0.01		<0.01	0.57	<0.01	147	0.07		31	<0.01	185	22	130	2
1820	475	411	21	2	5		1740		3		361	20	7		<1	14	2	4950	31	<1	32	<1	7170	29	34	12
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74.9	19.4	0.03	0.04	<0.05	<0.05		74.3		15.7		7.02	0.1	<0.01		<0.01	2.79	<0.01	158	0.05		31	<0.01	197	22	0.087	13
60.5	18.5	0.09	0.01	<0.05	<0.05		70		12.7		2.94	0.22	<0.01		<0.01	0.57	<0.01	147	0.07		31	<0.01	185	22	130	2
2.69	0.62	0.09	<0.01	<0.05	<0.05		3.21		0.58		2.28	0.04	<0.01		<0.01	0.11	<0.01	9.05	0.04		31	<0.01	31	17	47	0
45.8	12.6	1.41	0.02	<0.05	<0.05		41.6		4.79		16.2	0.63	<0.01		<0.01	0.48	<0.01	114	0.75		31	<0.01	114	22	59	3
18.4	4.91	1.47	0.01	<0.05	<0.05		22.4		1.9		7.44	0.26	<0.01		<0.01	0.19	<0.01	86.9	0.25		31	<0.01	86.9	22	60	1
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Project Name:	Monckton
Project Number:	1015

Exceeds GAC

Lab Sample ID	Units	Limit of Detection	Method	20/04676/6	20/04676/5	20/04676/4	20/04676/3	20-15490	20/04676/10	20-15490	20/04676/8	20-15490	20/04676/11	20/04676/2
Client Sample No								1019263		1019265		1019259		
Client Sample ID				TP50	TP51	TP52	TP53	TP55	TP56	TP58	TP59	TP60	TP60	TP61
Depth to Top				1.5	0.5	0.4	0.5	0.3	0.7	0.4	0.5	0.2	0.5	1.2
Date Sampled				08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20
Sample Type				Soil	Soil	Soil	Soil	SOIL	Soil	SOIL	Soil	SOIL	Soil	Solid
Sample Matrix Code				6A	5A	6AE	6AB		5AB		5A		6AB	7
% Stones >10mm	% w/w	0.1	A-T-044	7.6	1.1	<0.1	<0.1		17.6		8.6		3.8	<0.1
pH	pH	0.01	A-T-031s	7.73	7.78				7.84					6.71
Moisture						14		12		13		16		
Calorific Value						10		25		10		8.3		
Sulphate (water sol 2:1)	g/l	0.01	A-T-026s				1.04							
Sulphate (acid soluble)														
Sulphur (total)	mg/kg	50	A-T-024s				5330							
Cyanide (free)	mg/kg	1	A-T-042sFCN	<1	10									1
Cyanide (total)	mg/kg	1	A-T-042sTCN	20	338									34
Thiocyanate	mg/kg	5	A-T-041s	<5	<5									<5
Total Organic Carbon	% w/w	0.03	A-T-032s	29			11							
Arsenic	mg/kg	1	A-T-024s		36	22			10		23		36	
Barium	mg/kg	1	A-T-024s		84	115			168		139		71	
Beryllium	mg/kg	0.5	A-T-024s		0.6	0.9			1.1		1.1		1.7	
Cadmium	mg/kg	0.5	A-T-024s		1.7	2			1.2		2.5		1.5	
Copper	mg/kg	1	A-T-024s		63	112			35		84		73	
Chromium	mg/kg	1	A-T-024s		19	14			21		22		17	
Lead	mg/kg	1	A-T-024s		40	64			22		107		30	
Mercury	mg/kg	0.17	A-T-024s		5.02	<0.17			<0.17		<0.17		<0.17	
Nickel	mg/kg	1	A-T-024s		21	23			32		38		30	
Selenium	mg/kg	1	A-T-024s		<1	<1			<1		<1		<1	
Vanadium	mg/kg	1	A-T-024s		21	26			20		27		32	
Zinc	mg/kg	5	A-T-024s		69	45			63		1040		54	

Asbestos in Soil (inc. matrix)														
Asbestos in soil			A-T-045			NAD	Chrysotile				NAD		NAD	
Asbestos Matrix (microscope)			A-T-045			-	Loose Fibres				-		-	
Asbestos ACM - Suitable for Water Absorption Test?			A-T-045			N/A	N/A				N/A		N/A	
Asbestos in Soil Quantification % (Hand Picking & Weighing)														
Asbestos in soil % composition (hand picking and weighing)	% w/w	0.001	A-T-054				<0.001							

Speciated PCB-WHO12														
PCB BZ 81	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 105	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 114	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 118	mg/kg	0.007	A-T-004s	<0.007	<0.007									
PCB BZ 123	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 126	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 156	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 157	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 167	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 169	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 189	mg/kg	0.005	A-T-004s	<0.005	<0.005									
PCB BZ 77	mg/kg	0.005	A-T-004s	<0.005	<0.005									
Total Speciated PCB-WHO12	mg/kg	0.005	A-T-004s	<0.007	<0.007									

SVOC														
Hexachlorobenzene	µg/kg	100	A-T-052s						<100					<10000
Diethyl phthalate	µg/kg	100	A-T-052s						<100					<10000
Dimethyl phthalate	µg/kg	100	A-T-052s						<100					<10000
Dibenzofuran	µg/kg	100	A-T-052s						457					1370000
Carbazole	µg/kg	100	A-T-052s						<100					18600
Butylbenzyl phthalate	µg/kg	100	A-T-052s						<100					<10000
Bis(2-ethylhexyl)phthalate	µg/kg	500	A-T-052s						<500					<50000
Bis(2-chloroethoxy)methane	µg/kg	100	A-T-052s						<100					<10000
Bis(2-chloroethyl)ether	µg/kg	100	A-T-052s						<100					<10000
4-Nitrophenol	µg/kg	100	A-T-052s						<1000					<10000
3+4-Methylphenol	µg/kg	100	A-T-052s						<100					<10000
4-Chloro-3-methylphenol	µg/kg	100	A-T-052s						<100					<10000
2-Nitrophenol	µg/kg	100	A-T-052s						<100					<10000
2-Methylphenol	µg/kg	100	A-T-052s						<100					<10000
2-Chlorophenol	µg/kg	100	A-T-052s						<100					<10000
2,6-Dinitrotoluene	µg/kg	100	A-T-052s						<100					<10000
2,4-Dinitrotoluene	µg/kg	100	A-T-052s						<100					<10000
2,4-Dimethylphenol	µg/kg	100	A-T-052s						<100					<10000
2,4-Dichlorophenol	µg/kg	100	A-T-052s						<100					<10000
2,4,6-Trichlorophenol	µg/kg	100	A-T-052s						<100					<10000
2,4,5-Trichlorophenol	µg/kg	100	A-T-052s						<100					<10000
2-Chloronaphthalene	µg/kg	100	A-T-052s						<100					<10000
2-Methylnaphthalene	µg/kg	100	A-T-052s						236					358000
Acenaphthylene	µg/kg	100	A-T-052s						<100					<10000
Acenaphthene	µg/kg	100	A-T-052s						485					1580000
Anthracene	µg/kg	100	A-T-052s						113					67900
Benzo(a)anthracene	µg/kg	100	A-T-052s						121					21600
Benzo(b)fluoranthene	µg/kg	100	A-T-052s						203					14100
Benzo(k)fluoranthene	µg/kg	100	A-T-052s						<100					<10000
Benzo(a)pyrene	µg/kg	100	A-T-052s						152					13700
Benzo(ghi)perylene	µg/kg	100	A-T-052s						<100					<10000
Chrysene	µg/kg	100	A-T-052s						171					17900
Fluoranthene	µg/kg	100	A-T-052s						549					52900
Fluorene	µg/kg	100	A-T-052s						280					786000
Indeno(1,2,3-cd)pyrene	µg/kg	100	A-T-052s						<100					<10000
Phenanthrene	µg/kg	100	A-T-052s						754					334000
Pyrene	µg/kg	100	A-T-052s						407					38400
Naphthalene	µg/kg	100	A-T-052s						340					940000
Dibenzo(ah)anthracene	µg/kg	100	A-T-052s						<100					<10000
Bis(2-chloroisopropyl)ether	µg/kg	100	A-T-052s						<100					<10000
Phenol	µg/kg	100	A-T-052s						<100					<10000
Pentachlorophenol (SVOC)	µg/kg	100	A-T-052s						<100					<10000
n-Nitroso-n-dipropylamine	µg/kg	100	A-T-052s						<100					<10000
n-Dioctylphthalate	µg/kg	500	A-T-052s						<500					<50000
n-Dibutylphthalate	µg/kg	100	A-T-052s						<100					<10000
Nitrobenzene	µg/kg	100	A-T-052s						<100					<10000
Isophorone	µg/kg	100	A-T-052s						<100					<10000
Hexachloroethane	µg/kg	100	A-T-052s						<100					<10000
Hexachlorocyclopentadiene	µg/kg	100	A-T-052s						<100					<10000
Perylene	µg/kg	100	A-T-052s						<100					<10000

VOC														
Dichlorodifluoromethane	µg/kg	1	A-T-006s						<1					<1
Chloromethane	µg/kg	10	A-T-006s						<10					<10
Vinyl Chloride (Chloroethene)	µg/kg	1	A-T-006s						<1					<1
Bromomethane	µg/kg	1	A-T-006s						<1					<1
Chloroethane	µg/kg	1	A-T-006s						<1					<1
Trichlorofluoromethane	µg/kg	1	A-T-006s						<1					<1
1,1-Dichloroethene	µg/kg	1	A-T-006s						<1					<1
Carbon Disulphide	µg/kg	1	A-T-006s						<1					2
Dichloromethane	µg/kg	5	A-T-006s						<5					<5
trans 1,2-Dichloroethene	µg/kg	1	A-T-006s						<1					<1
1,1-Dichloroethane	µg/kg	1	A-T-006s						<1					<1
cis 1,2-Dichloroethene	µg/kg	1	A-T-006s						<1					<1
2,2-Dichloropropane	µg/kg	1	A-T-006s						<1					<1
Bromochloromethane	µg/kg	5	A-T-006s						<5					<5
Chloroform	µg/kg	1	A-T-006s						<1					<1
1,1,1-Trichloroethane	µg/kg	1	A-T-006s						<1					<1
1,1-Dichloropropene	µg/kg	1	A-T-006s						<1					<1
Carbon Tetrachloride	µg/kg	1	A-T-006s						<1					<1
1,2-Dichloroethane	µg/kg	2	A-T-006s						<2					<2
Benzene	µg/kg	1	A-T-006s						<1					15
Trichloroethene	µg/kg	1	A-T-006s						<1					<1
1,2-Dichloropropane	µg/kg	1	A-T-006s						<1					<1
Dibromomethane	µg/kg	1	A-T-006s						<1					<1
Bromodichloromethane	µg/kg	10	A-T-006s						<10					<10
cis 1,3-Dichloropropene	µg/kg	1	A-T-006s						<1					<1
Toluene	µg/kg	1	A-T-006s						<1					10
trans 1,3-Dichloropropene	µg/kg	1	A-T-006s						<1					<1
1,1,2-Trichloroethane	µg/kg	1	A-T-006s						<1					<1
1,3-Dichloropropane	µg/kg	1	A-T-006s						<1					<1
Tetrachloroethene	µg/kg	1	A-T-006s						<1					<1
Dibromochloromethane	µg/kg	3	A-T-006s						<3					<3
1,2-Dibromoethane	µg/kg	1	A-T-006s						<1					<1
Chlorobenzene	µg/kg	1	A-T-006s						<1					<1
1,1,1,2-Tetrachloroethane	µg/kg	1	A-T-006s						<1					<1
Ethylbenzene	µg/kg	1	A-T-006s						<1					26
m & p Xylene	µg/kg	1	A-T-006s						<1					45
o-Xylene	µg/kg	1	A-T-006s						<1					40
Styrene	µg/kg	1	A-T-006s						<1					<1
Bromoform	µg/kg	1	A-T-006s						<1					<1
Isopropylbenzene	µg/kg	1	A-T-006s						<1					2
1,1,2,2-Tetrachloroethane	µg/kg	1	A-T-006s						<1					<1
1,2,3-Trichloropropane	µg/kg	1	A-T-006s						<1					<1
Bromobenzene	µg/kg	1	A-T-006s						<1					<1
n-Propylbenzene	µg/kg	1	A-T-006s						<1					2
2-Chlorotoluene	µg/kg	1	A-T-006s						<1					<1
1,3,5-Trimethylbenzene	µg/kg	1	A-T-006s						<1					68
4-Chlorotoluene	µg/kg	1	A-T-006s						<1					<1
tert-Butylbenzene	µg/kg	2	A-T-006s						<2					<2
1,2,4-Trimethylbenzene	µg/kg	1	A-T-006s						<1					171
sec-Butylbenzene	µg/kg	1	A-T-006s						<1					<1
4-Isopropyltoluene	µg/kg	1	A-T-006s						<1					2
1,3-Dichlorobenzene	µg/kg	1	A-T-006s						<1					<1
1,4-Dichlorobenzene	µg/kg	1	A-T-006s						<1					<1
n-Butylbenzene	µg/kg	1	A-T-006s						<1					7
1,2-Dichlorobenzene	µg/kg	1	A-T-006s						<1					<1
1,2-Dibromo-3-chloropropane (DCBP)	µg/kg	2	A-T-006s						<2					<2
1,2,4-Trichlorobenzene	µg/kg	3	A-T-006s						<3					<3
Hexachlorobutadiene	µg/kg	1	A-T-006s						<1					<1
1,2,3-Trichlorobenzene	µg/kg	3	A-T-006s						<3					<3

TPH CWG														
Ali >C5-C6	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			<0.01
Ali >C6-C8	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.02
Ali >C8-C10	mg/kg	1	A-T-055s	13					4		15			<50
Ali >C10-C12	mg/kg	1	A-T-055s	9					9		9			<50
Ali >C12-C16	mg/kg	1	A-T-055s	18					18		16			357
Ali >C16-C21	mg/kg	1	A-T-055s	30					33		22			498
Ali >C21-C35	mg/kg	1	A-T-055s	173					290		75			92
Total Aliphatics	mg/kg	1	A-T-055s	243					353		134			947
Aro >C5-C7	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.02
Aro >C7-C8	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.02
Aro >C8-C10	mg/kg	1	A-T-055s	9					2		9			62
Aro >C10-C12	mg/kg	1	A-T-055s	11					8		13			4640
Aro >C12-C16	mg/kg	1	A-T-055s	79					28		47			23900
Aro >C16-C21	mg/kg	1	A-T-055s	117					21		49			4780
Aro >C21-C35	mg/kg	1	A-T-055s	235					25		87			746
Total Aromatics	mg/kg	1	A-T-055s	451					83		204			34100
TPH (Ali & Aro >C5-C35)	mg/kg	1	A-T-055s	694					436		340			35100
BTEX - Benzene	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.02
BTEX - Toluene	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.02
BTEX - Ethyl Benzene	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.1
BTEX - m & p Xylene	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.17
BTEX - o Xylene	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			0.22
MTBE	mg/kg	0.01	A-T-022s	<0.05					<0.01		<0.05			<0.01

20/04676/1	20/04676/9	20/04676/7	20-15490	20/04677/9	20/04677/8	20/04677/7	20/04757/6	20-15490	20/04757/7	20/04757/3	20/04757/5	20/04757/2	20-15490	20/04757/4	20/04757/1	20/04757/8
			1019266					1019261					1019260			
TP65	TP67	TP69	TP71	TP77	TP77	TP80	TP81	TP82	TP83	TP84	TP85	TP86	TP87	TP87	TP87	TP88
0.5	1.2	0.7	0.2	0.5	1.5	3	0.4	0.2	0.3		0.3	0.5	0.2	2	2.7	0.2
09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20
Soil	Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
6AE	7	6A		6ABE	5AB	4A	6A		6ABE	6AB	6AB	6A		5AB	5A	6AB
22.5	<0.1	<0.1		14.3	17.4	3.4	35.2		17.6	29.1	40.5	15.1		<0.1	8.3	46.7
7.45					8.01		7.33							7.39	7.82	8.97
			7.4					14					12			
			24					24					8.0			
	0.05													0.33		
	336													1580		
															<1	
															<1	
															<5	
9.38												15.7		2.8		
8				30			21		26	28		32				9
100				148			76		137	112		51 (0.5m) and				65
0.7				1.1			2		1.3	0.9		1.4				0.6
1				<0.5			2.4		2.1	1.3		1.3				1
23				45			89		53	30		71				36
12				23			16		27	14		20				20
43				39			14		41	26		32				31
<0.17				<0.17			<0.17		<0.17	<0.17		<0.17				1.23
18				30			40		30	19		38				16
<1				<1			<1		<1	<1		<1				<1
19				29			34		31	19		42				21
60				59			40		72	40		31				107

NAD		Chrysotile		NAD		NAD				NAD	NAD	NAD				NAD
-		Loose Fibres		-		-				N/A	N/A	N/A				N/A
N/A		N/A		N/A		N/A										
		0.127														

															<100	
															<100	
															<100	
															285	
															<100	
															<100	
															<500	
															<100	
															<100	
															<1000	
															<100	
															<100	
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															368	
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															127	
															212	
															161	
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															<3	

	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	0.01
	<1	19			<1	<1				2					16	6
	<1	11			<1	<1				2					11	3
	1	19			<1	<1				3					17	5
	2	22			2	<1				10					12	5
	3	45			10	6				44					89	29
	7	115			14	6				61					146	48
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<1	11			3	3				2					13	7
	<1	11			2	<1				3					15	8
	3	47			5	1				10					41	34
	3	38			7	1				16					32	62
	7	66			21	6				33					46	108
	13	172			36	11				64					149	220
	20	287			50	17				125					295	268
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01
	<0.01	<0.05			<0.01	<0.01				<0.01					<0.05	<0.01

20/04888/2	20/04888/3	20/04888/4	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	Number of Samples	Min	Max	No. >detection	RESI (WITH PLANT) UPTAKE	No .> GAC Value
TP94	TP94	TP95	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04						
0.40	2.20	0.20	0.80	1.10	0.80	3.30	0.25	2.20						
15-Jun-20	15-Jun-20	15-Jun-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20						
Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
6AB	5A	6A	6AB	4AB	4A	5A	4AB	6A						
2.8	0.8	20.9	13.1	20.5	22	<0.1	6.8	<0.1						
	7.34		7.91	7.89		7.27		5.15	15	5.15	8.97			
									7	8	25	7		
	0.16								4	0.05	1.04			
			3400	13000		1200		2000	4	1200	13000			
	851		1690	4640		981		652	8	336	5330			
				<1	<1				6	<1	10	2		
				<1	<1				6	<1	338	3		
				<5	<5				6	<5	0	0		
	1.29					0.49		0.98	8	0.49	29			
14		26	10	21	7		21		18	7	36	18	37	0
77		127							14	65	168	14	1300	0
1.2		0.6							14	0.6	2	14	1.7	1
0.7		1.4	0.5	0.6	<0.5		<0.5		18	<0.5	2.5	15	22	0
40		57	30	37	14		121		18	14	121	18	2400	0
19		28	23	19	8		12		18	8	28	18	910	0
17		237	27	39	9		23		18	9	237	18	200	1
<0.17		<0.17	<0.17	<0.17	<0.17		<0.17		18	1.23	5.02	2	1.2	2
29		36	31	28	9		16		18	9	40	18	180	0
<1		<1	<1	2	2		2		18	<1	2	15	250	0
25		26							14	19	42	14	410	0
82		127	112	71	54		21		18	21	1040	18	3700	0

		NAD							11			2		
		N/A												
									2	<0.001	0.127	1		

									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.007	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.005	0	0		
									2	<0.007	0	0		

					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					361		195		5	195	1370000	5		
					<100		<100		5	<100	18600	1		
					<100		<100		5	<100	0	0		
					<500		<500		5	<500	0	0	2700	0
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
					<100		<100		5	<100	0	0		
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					<100		<100		5	<100	0	0		
					783		189		5	189	358000	5		
					<100		<100		5	<100	0	0	170000	0
					145		<100		5	<100	1580000	4	210000	1
					232		<100		5	<100	67900	3	2400000	0
					769		<100		5	<100	21600	3	7200	1
					589		<100		5	<100	14100	3	2600	1
					207		<100		5	<100	207	1	77000	0
					624		<100		5	<100	13700	3	2200	1
					380		<100		5	<100	380	1	320000	0
					575		119		5	119	17900	5	15000	1
					1080		130		5	130	52900	5	280000	0
					176		<100		5	<100	786000	4	170000	1
					338		<100		5	<100	338	1	27000	0
					887		423		5	380	334000	5	95000	1
					908		121		5	121	38400	5	620000	0
					312		101		5	101	940000	5	2300	1
					185		<100		5	<100	185	1	240	0
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					<500		<500		5	<100	0	0		
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					<1		<1		5	<1	0	0		
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					<1		<1		5	<1	0	0		
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					<10		<10		5	<10	0	0		
					<1		<1		5	<1	0	0		
					3		<1		5	<1	10	3	130000	0
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					<3		<3		5	<3	0	0		

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	2		7	45	116		78		16	2	947	16		
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	<1		2	5	11		14		16	<1	62	14	34	1
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	<1		3	11	27		30		16	<1	4780	15	260	1
	4		5	18	68		30		16	4	746	16	1100	0
	4		15	52	145		110		16	4	34100	16		
	6		23	97	261		188		16	6	35100	16		
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	<0.01		<0.05	<0.05	0.07		<0.05		16	<0.01	0.07	2	130	0
	<0.01		<0.05	<0.05	<0.05		<0.05		16	<0.01	0.1	1	47	0
	<0.01		<0.05	<0.05	0.06		<0.05		16	<0.01	0.17	2	59	0
	<0.01		<0.05	<0.05	<0.05		<0.05		16	<0.01	0.22	1	60	0
	<0.01		<0.05	<0.05	<0.05		<0.05		16	<0.01	0	0		

Project Name:	Monckton
Project Number:	1015

Exceeds GAC

Lab Sample ID	Units	Limit of Detection	Method	20/04677/5	20/04677/1	20/04677/6	20/04677/4	20/04677/3	20/04677/2	20/03816/5	20/03816/6	20/03816/7	Number of Samples	Min	Max	No. >detection	RESI (WITH PLANT) UPTAKE	No .> GAC Value
Client Sample ID				TP72	TP73	TP73	TP74	TP75	TP75	WS20-10	WS20-10	WS20-10						
Depth to Top				0.2	0.6	1.8	0.5	0.4	1	1.40	2.80	0.30						
Date Sampled				10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	05-May-20	05-May-20	05-May-20						
Sample Type				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
Sample Matrix Code				5ABE	6AE	5A	5AE	6AE	5A	4ABE	3A	4AB						
% Stones >10mm	% w/w	0.1	A-T-044	1.6	<0.1	5.4	<0.1	32.7	<0.1	13.5	<0.1	20.8						
pH	pH	0.01	A-T-031s		8.23	7.77	6.27	8.39	5.59	7.27			6	5.59	8.39			
Moisture																		
Calorific Value																		
Sulphate (water sol 2:1)						0.1		0.05					2	0.05	0.1	2		
Sulphate (acid soluble)	mg/kg	200	A-T-028s							430			1	430	430	1		
Sulphur (total)	mg/kg	50	A-T-024s			275		289		179			3	179	289	3		
Cyanide (free)	mg/kg	1	A-T-042sFCN			1	<1		<1				3	<1	1	1		
Cyanide (total)	mg/kg	1	A-T-042sTCN			42	<1		<1				3	<1	42	1		
Thiocyanate	mg/kg	5	A-T-041s			<5	<5		<5				3	<5	0	0		
Total Organic Carbon	% w/w	0.03	A-T-032s		2.76				0.27	0.91			3	0.27	2.76			
Arsenic	mg/kg	1	A-T-024s	8	16		<1	4				2	5	<1	16	4	37	0
Barium	mg/kg	1	A-T-024s	262	210		555	77					4	77	555	4	1300	0
Beryllium	mg/kg	0.5	A-T-024s	1.2	1.3		1.6	0.5					4	0.5	1.6	4	1.7	0
Cadmium	mg/kg	0.5	A-T-024s	0.6	0.5		0.7	<0.5				<0.5	5	<0.5	0.7	3	22	0
Copper	mg/kg	1	A-T-024s	31	57		30	20				9	5	9	57	5	2400	0
Chromium	mg/kg	1	A-T-024s	25	18		36	355				15	5	15	355	5	910	0
Lead	mg/kg	1	A-T-024s	65	137		18	15				10	5	10	137	5	200	0
Mercury	mg/kg	0.17	A-T-024s	<0.17	0.22		<0.17	0.5				0.24	5	<0.17	0.5	3	1.2	0
Nickel	mg/kg	1	A-T-024s	30	21		52	198				18	5	18	198	5	180	1
Selenium	mg/kg	1	A-T-024s	<1	<1		<1	1				<1	5	<1	1	1	250	0
Vanadium	mg/kg	1	A-T-024s	28	28		31	14					4	14	31	4	410	0
Zinc	mg/kg	5	A-T-024s	101	104		90	34				33	5	33	104	5	3700	0

Asbestos in Soil (inc. matrix)																		
Asbestos in soil			A-T-045															
Asbestos Matrix (microscope)			A-T-045	NAD	Chrysotile		NAD	NAD					4	NAD	0	1		
Asbestos ACM - Suitable for Water Absorption Test?			A-T-045	-	Loose Fibres		-	-										
				N/A	N/A		N/A	N/A										
Asbestos in Soil Quantification % (Hand Picking & Weighing)																		
Asbestos in soil % composition (hand picking and weighing)	% w/w	0.001	A-T-054		<0.001								1	<0.001	0	0		

Speciated PCB-WHO12																		
PCB BZ 81	mg/kg	0.005	A-T-004s															
PCB BZ 105	mg/kg	0.005	A-T-004s															
PCB BZ 114	mg/kg	0.005	A-T-004s															
PCB BZ 118	mg/kg	0.007	A-T-004s															
PCB BZ 123	mg/kg	0.005	A-T-004s															
PCB BZ 126	mg/kg	0.005	A-T-004s															
PCB BZ 156	mg/kg	0.005	A-T-004s															
PCB BZ 157	mg/kg	0.005	A-T-004s															
PCB BZ 167	mg/kg	0.005	A-T-004s															
PCB BZ 169	mg/kg	0.005	A-T-004s															
PCB BZ 189	mg/kg	0.005	A-T-004s															
PCB BZ 77	mg/kg	0.005	A-T-004s															
Total Speciated PCB-WHO12	mg/kg	0.005	A-T-004s															

SVOC																		
Hexachlorobenzene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Diethyl phthalate	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Dimethyl phthalate	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Dibenzofuran	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Carbazole	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Butylbenzyl phthalate	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Bis(2-ethylhexyl)phthalate	µg/kg	500	A-T-052s			955			<500				2	<500	955	1	2700	0
Bis(2-chloroethoxy)methane	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Bis(2-chloroethyl)ether	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
4-Nitrophenol	µg/kg	100	A-T-052s			<1000			<1000				2	<1000	0	0		
3+4-Methylphenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
4-Chloro-3-methylphenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2-Nitrophenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2-Methylphenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2-Chlorophenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2,6-Dinitrotoluene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2,4-Dinitrotoluene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2,4-Dimethylphenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	210000	0
2,4-Dichlorophenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2,4,6-Trichlorophenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2,4,5-Trichlorophenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2-Chloronaphthalene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
2-Methylnaphthalene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Acenaphthylene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	170000	0
Acenaphthene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	210000	0
Anthracene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	2400000	0
Benzo(a)anthracene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	7200	0
Benzo(b)fluoranthene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	2600	0
Benzo(k)fluoranthene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	77000	0
Benzo(a)pyrene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	2200	0
Benzo(ghi)perylene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	320000	0
Chrysene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	15000	0
Fluoranthene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	280000	0
Fluorene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	170000	0
Indeno(1,2,3-cd)pyrene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	27000	0
Phenanthrene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	95000	0
Pyrene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	620000	0
Naphthalene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	2300	0
Dibenzo(ah)anthracene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	240	0
Bis(2-chloroisopropyl)ether	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Phenol	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0	280000	0
Pentachlorophenol (SVOC)	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
n-Nitroso-n-dipropylamine	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
n-Dioctylphthalate	µg/kg	500	A-T-052s			<500			<500				2	<500	0	0		
n-Dibutylphthalate	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Nitrobenzene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Isophorone	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Hexachloroethane	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Hexachlorocyclopentadiene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		
Perylene	µg/kg	100	A-T-052s			<100			<100				2	<100	0	0		

VOC																		
Dichlorodifluoromethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Chloromethane	µg/kg	10	A-T-006s			<10			<10				2	<10	0	0		
Vinyl Chloride (Chloroethene)	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Bromomethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Chloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Trichlorofluoromethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1-Dichloroethene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Carbon Disulphide	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	140	0
Dichloromethane	µg/kg	5	A-T-006s			<5			<5				2	<5	0	0		
trans 1,2-Dichloroethene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1-Dichloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
cis 1,2-Dichloroethene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
2,2-Dichloropropane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Bromochloromethane	µg/kg	5	A-T-006s			<5			<5				2	<5	0	0		
Chloroform	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1,1-Trichloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1-Dichloropropene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Carbon Tetrachloride		1	A-T-006s			<1			<1				2	<1	0	0		
1,2-Dichloroethane	µg/kg	2	A-T-006s			<2			<2				2	<2	0	0		
Benzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	87	0
Trichloroethene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,2-Dichloropropane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Dibromomethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Bromodichloromethane	µg/kg	10	A-T-006s			<10			<10				2	<10	0	0		
cis 1,3-Dichloropropene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Toluene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	130000	0
trans 1,3-Dichloropropene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1,2-Trichloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,3-Dichloropropane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Tetrachloroethene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Dibromochloromethane	µg/kg	3	A-T-006s			<3			<3				2	<3	0	0		
1,2-Dibromoethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Chlorobenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,1,1,2-Tetrachloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Ethylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	47000	0
m & p Xylene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	59000	0
o-Xylene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	60000	0
Styrene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Bromoform	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Isopropylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	12000	0
1,1,2,2-Tetrachloroethane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,2,3-Trichloropropane	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
Bromobenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
n-Propylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	40000	0
2-Chlorotoluene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,3,5-Trimethylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
4-Chlorotoluene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
tert-Butylbenzene	µg/kg	2	A-T-006s			<2			<2				2	<2	0	0		
1,2,4-Trimethylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0	410	0
sec-Butylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
4-Isopropyltoluene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,3-Dichlorobenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,4-Dichlorobenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
n-Butylbenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,2-Dichlorobenzene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,2-Dibromo-3-chloropropane (DCBP)	µg/kg	2	A-T-006s			<2			<2				2	<2	0	0		
1,2,4-Trichlorobenzene	µg/kg	3	A-T-006s			<3			<3				2	<3	0	0		
Hexachlorobutadiene	µg/kg	1	A-T-006s			<1			<1				2	<1	0	0		
1,2,3-Trichlorobenzene	µg/kg	3	A-T-006s			<3			<3				2	<3	0	0		

TPH CWG																		
Ali >C5-C6	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		7	<0.01	0	0	42	0
Ali >C6-C8	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.01		7	<0.01	0	0	100	0
Ali >C8-C10	mg/kg	1	A-T-055s	1	1	<1	<1	<1	<1		<1		7	<1	0	0	27	0
Ali >C10-C12	mg/kg	1	A-T-055s	<1	<1	<1	<1	<1	<1		<1		7	<1	0	0	130	0
Ali >C12-C16	mg/kg	1	A-T-055s	1	2	<1	<1	<1	<1		<1		7	<1	2	2	1100	0
Ali >C16-C21	mg/kg	1	A-T-055s	2	4	<1	<1	2	<1		<1		7	<1	4	3	65000	0
Ali >C21-C35	mg/kg	1	A-T-055s	25	11	<1	<1	7	<1		<1		7	<1	25	3	65000	0
Total Aliphatics	mg/kg	1	A-T-055s	30	18	<1	<1	10	<1		<1		7	<1	30	3		
Aro >C5-C7	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.04		7	<0.01	0.04	1	70	0
Aro >C7-C8	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.02		7	<0.01	0.02	1	130	0
Aro >C8-C10	mg/kg	1	A-T-055s	3	4	<1	<1	1	<1		<1		7	<1	4	2	34	0
Aro >C10-C12	mg/kg	1	A-T-055s	2	2	<1	<1	<1	<1		<1		7	<1	2	2	74	0
Aro >C12-C16	mg/kg	1	A-T-055s	6	7	<1	<1	3	<1		<1		7	<1	7	2	140	0
Aro >C16-C21	mg/kg	1	A-T-055s	10	39	<1	<1	12	<1		<1		7	<1	39	3	260	0
Aro >C21-C35	mg/kg	1	A-T-055s	35	179	<1	2	54	<1		2		7	<1	179	5	1100	0
Total Aromatics	mg/kg	1	A-T-055s	56	231	<1	2	72	<1		2		7	<1	231	5		
TPH (Ali & Aro >C5-C35)	mg/kg	1	A-T-055s	86	249	<1	2	83	<1		2		7	<1	249	5		
BTEX - Benzene	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.04		7	<0.01	0.04	1	0.087	0
BTEX - Toluene	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.02		7	<0.01	0.02	1	130	0
BTEX - Ethyl Benzene	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		7	<0.01	<0.01	0	47	0
BTEX - m & p Xylene	mg/kg	0.01	A-T-022s	0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		7	<0.01	<0.01	1	59	0
BTEX - o Xylene	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		7	<0.01	<0.01	0	60	0
MTBE	mg/kg	0.01	A-T-022s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		7	<0.01	<0.01	0		

Project Name:	Monckton
Project Number:	1015

Exceeds GAC

Lab Sample ID	Units	Limit of Detection	Method	20/04754/5	20/04754/6	20/04754/7	20/04947/1	20/04947/2	20/04947/3	20/04947/4
Client Sample ID				BH305	RBH4	RBH4A	BH19-01	BH19-02	BH19-03	BH19-04
Lineside or Northern Catchment				N	N	N	L	L	L	N
Date Sampled				10-Jun-20	10-Jun-20	10-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20
Sample Type				Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW
Sample Matrix Code				N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH (w)	pH	0.01	A-T-031w				8.27	8.28	8.01	3.72
Redox Potential (w)	mV		A-T-048				206	197	188	238
Electrical conductivity @ 20degC (w)	µs/cm	10	A-T-037w				1868	2950	1551	4430
Hardness Total	mg/l Ca CO3	2	A-T-049w	883			520	428	1420	
Ammoniacal nitrogen as N (w)	mg/l	0.02	A-T-033w	6.46				22.3	11.2	
Nitrite (w)	mg/l	0.1	A-T-026w				<0.1	<0.1	3.3	<0.1
Nitrate (w)	mg/l	0.1	A-T-026w				<0.1	<0.1	216	81.9
Cyanide (free) (w)	mg/l	0.005	A-T-042wFCN			<0.005		0.008	0.049	
Cyanide (total) (w)	mg/l	0.005	A-T-042wTCN			0.061		0.391	4.335	
Thiocyanate (w)	mg/l	0.1	A-T-041w			0.6		13	1.7	
Phenols - Total by HPLC (w)	mg/l	0.01	A-T-050w	<0.01				14	<0.01	
Arsenic (dissolved)	µg/l	1	A-T-025w	4	<1		64			7
Boron (dissolved)	µg/l	10	A-T-025w	102	228		420			133
Cadmium (dissolved)	µg/l	0.2	A-T-025w	<0.2	<0.2		<0.2			2.8
Copper (dissolved)	µg/l	1	A-T-025w	<1	2		1			8
Chromium (dissolved)	µg/l	1	A-T-025w	<1	2		<1			3
Iron (dissolved)	µg/l	10	A-T-025w				111	262	1530	4610
Ferrous iron FeII (w)	mg/l	0.1	Colorimetric				<0.1	<0.1	<0.1	4.4
Ferric iron FeIII (w)	mg/l	0.1	Calc				0.1	0.3	1.5	0.2
Lead (dissolved)	µg/l	1	A-T-025w	<1	<1		<1			4
Manganese (dissolved)	µg/l	1	A-T-025w				690	78	4720	18300
Mercury (dissolved)	µg/l	0.1	A-T-025w	<0.1	<0.1		0.1			<0.1
Nickel (dissolved)	µg/l	1	A-T-025w	2	9		2			226
Selenium (dissolved)	µg/l	1	A-T-025w	<1	1		<1			5
Zinc (dissolved)	µg/l	1	A-T-025w	5	7		68			413
Manganese IV (w)	µg/l	1	Calc				130	<1	1920	300
Manganese II (w)	µg/l	1	ubcon Chemtest				560	120	2800	18000

PAH 16MS (w)										
Acenaphthene (w)	µg/l	0.01	A-T-019w	40.49				3080	0.17	
Acenaphthylene (w)	µg/l	0.01	A-T-019w	0.34				32.9	0.02	
Anthracene (w)	µg/l	0.01	A-T-019w	0.24				43.3	0.06	
Benzo(a)anthracene (w)	µg/l	0.01	A-T-019w	0.02				7.01	0.02	
Benzo(a)pyrene (w)	µg/l	0.01	A-T-019w	<0.01				4.22	0.02	
Benzo(b)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01				4.83	0.02	
Benzo(ghi)perylene (w)	µg/l	0.01	A-T-019w	<0.01				1.35	0.01	
Benzo(k)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01				1.78	0.01	
Chrysene (w)	µg/l	0.01	A-T-019w	0.02				5.8	0.02	
Dibenzo(ah)anthracene (w)	µg/l	0.01	A-T-019w	<0.01				0.42	<0.01	
Fluoranthene (w)	µg/l	0.01	A-T-019w	0.15				25	0.05	
Fluorene (w)	µg/l	0.01	A-T-019w	4.26				794	0.04	
Indeno(123-cd)pyrene (w)	µg/l	0.01	A-T-019w	<0.01				2.17	0.01	
Naphthalene (w)	µg/l	0.01	A-T-019w	77.2				>11100	7.08	
Phenanthrene (w)	µg/l	0.01	A-T-019w	0.74				295	<0.01	
Pyrene (w)	µg/l	0.01	A-T-019w	0.11				16.4	0.03	
Total PAH 16MS (w)	µg/l	0.01	A-T-019w	124				4310	7.56	

Product (Oil) ID										
Product (Oil) ID (for FID characterisation)										
Carbon range										
Product (Oil) Density										

Product (Oil) SVOC										
2,4,5-Trichlorophenol	µg/l	100	A-T-052s							
2,4,6-Trichlorophenol	µg/l	100	A-T-052s							
2,4-Dichlorophenol	µg/l	100	A-T-052s							
2,4-Dimethylphenol	µg/l	100	A-T-052s							
2,4-Dinitrotoluene	µg/l	100	A-T-052s							
2,6-Dinitrotoluene	µg/l	100	A-T-052s							
2-Chloronaphthalene	µg/l	100	A-T-052s							
2-Chlorophenol	µg/l	100	A-T-052s							
2-Methylnaphthalene	µg/l	100	A-T-052s							
2-Methylphenol	µg/l	100	A-T-052s							
2-Nitrophenol	µg/l	100	A-T-052s							
4-Bromophenyl phenyl ether	µg/l	100	A-T-052s							
4-Chloro-3-methylphenol	µg/l	100	A-T-052s							
3+4-Methylphenol	µg/l	100	A-T-052s							
4-Nitrophenol	µg/l	100	A-T-052s							
Acenaphthene	µg/l	100	A-T-052s							
Acenaphthylene	µg/l	100	A-T-052s							
Anthracene	µg/l	100	A-T-052s							
Benzo(a)anthracene	µg/l	100	A-T-052s							
Benzo(a)pyrene	µg/l	100	A-T-052s							
Benzo(b)fluoranthene	µg/l	100	A-T-052s							
Benzo(ghi)perylene	µg/l	100	A-T-052s							
Benzo(k)fluoranthene	µg/l	100	A-T-052s							
Bis(2-chloroethoxy)methane	µg/l	100	A-T-052s							
Bis(2-chloroethyl)ether	µg/l	100	A-T-052s							
Bis(2-chloroisopropyl)ether	µg/l	100	A-T-052s							
Bis(2-ethylhexyl)phthalate	µg/l	500	A-T-052s							
Butylbenzyl phthalate	µg/l	100	A-T-052s							
Carbazole	µg/l	100	A-T-052s							
Chrysene	µg/l	100	A-T-052s							
Dibenzo(ah)anthracene	µg/l	100	A-T-052s							
Dibenzofuran	µg/l	100	A-T-052s							
Diethyl phthalate	µg/l	100	A-T-052s							
Dimethyl phthalate	µg/l	100	A-T-052s							
n-Dibutylphthalate	µg/l	100	A-T-052s							
n-Dioctylphthalate	µg/l	500	A-T-052s							
Fluoranthene	µg/l	100	A-T-052s							
Fluorene	µg/l	100	A-T-052s							
Hexachlorobenzene	µg/l	100	A-T-052s							
Hexachlorocyclopentadiene	µg/l	100	A-T-052s							
Hexachloroethane	µg/l	100	A-T-052s							
Indeno(1,2,3-cd)pyrene	µg/l	100	A-T-052s							
Isophorone	µg/l	100	A-T-052s							
Naphthalene	µg/l	100	A-T-052s							
Nitrobenzene	µg/l	100	A-T-052s							
n-Nitroso-n-dipropylamine	µg/l	100	A-T-052s							
Pentachlorophenol	µg/l	100	A-T-052s							
Perylene	µg/l	100	A-T-052s							
Phenanthrene	µg/l	100	A-T-052s							
Phenol	µg/l	100	A-T-052s							
Pyrene	µg/l	100	A-T-052s							

Product (Oil) VOC										
Dichlorodifluoromethane (Freon/CFC-12)	µg/l	1	A-T-006s							
Chloromethane	µg/l	10	A-T-006s							
Vinyl Chloride	µg/l	1	A-T-006s							
Bromomethane	µg/l	1	A-T-006s							
Chloroethane	µg/l	1	A-T-006s							
Trichlorofluoromethane (Freon/CFC-11)	µg/l	1	A-T-006s							
1,1-Dichloroethene (1,1-DCE) (vinylidene chloride)	µg/l	1	A-T-006s							
Carbon Disulphide	µg/l	1	A-T-006s							
Dichloromethane (methylene chloride)	µg/l	5	A-T-006s							
trans 1,2-Dichloroethene (trans-1,2-DCE)	µg/l	1	A-T-006s							
1,1-Dichloroethane (1,1-DCA)	µg/l	1	A-T-006s							
cis 1,2-Dichloroethene (cis-1,2-DCE)	µg/l	1	A-T-006s							
2,2-Dichloropropane	µg/l	1	A-T-006s							
Bromochloromethane	µg/l	5	A-T-006s							
Chloroform (Trichloromethane)	µg/l	1	A-T-006s							
1,1,1-Trichloroethane (1,1,1-TCA)	µg/l	1	A-T-006s							
1,1-Dichloropropene	µg/l	1	A-T-006s							
Carbon Tetrachloride (Tetrachloromethane)	µg/l	1	A-T-006s							
1,2-Dichloroethane (1,2-DCA)	µg/l	2	A-T-006s							
Benzene	µg/l	1	A-T-006s							
Trichloroethene (TCE)	µg/l	1	A-T-006s							
1,2-Dichloropropane	µg/l	1	A-T-006s							
Dibromomethane	µg/l	1	A-T-006s							
Bromodichloromethane	µg/l	10	A-T-006s							
cis 1,3-Dichloropropene	µg/l	1	A-T-006s							
trans 1,3-Dichloropropene	µg/l	1	A-T-006s							
1,1,2-Trichloroethane (1,1,2-TCA)	µg/l	1	A-T-006s							
1,3-Dichloropropane	µg/l	1	A-T-006s							
Tetrachloroethene (PCE)A151:A18A151:A181	µg/l	1	A-T-006s							
Dibromochloromethane	µg/l	3	A-T-006s							
1,2-Dibromoethane (1,2-EDB; 1,2-Ethylene Dibromide)	µg/l	1	A-T-006s							
Chlorobenzene	µg/l	1	A-T-006s							
1,1,1,2-Tetrachloroethane	µg/l	1	A-T-006s							
Ethylbenzene	µg/l	1	A-T-006s							
m & p Xylene	µg/l	1	A-T-006s							
o-Xylene	µg/l	1	A-T-006s							
Styrene	µg/l	1	A-T-006s							
Bromoform (Tribromomethane)	µg/l	1	A-T-006s							
Isopropylbenzene	µg/l	1	A-T-006s							
1,1,2,2-Tetrachloroethane	µg/l	1	A-T-006s							
1,2,3-Trichloropropane	µg/l	1	A-T-006s							
Bromobenzene	µg/l	1	A-T-006s							
n-Propylbenzene	µg/l	1	A-T-006s							
2-Chlorotoluene	µg/l	1	A-T-006s							
1,3,5-Trimethylbenzene	µg/l	1	A-T-006s							
4-Chlorotoluene	µg/l	1	A-T-006s							
tert-Butylbenzene	µg/l	2	A-T-006s							
1,2,4-Trimethylbenzene	µg/l	1	A-T-006s							
sec-Butylbenzene	µg/l	1	A-T-006s							
4-Isopropyltoluene	µg/l	1	A-T-006s							
1,3-Dichlorobenzene	µg/l	1	A-T-006s							
1,4-Dichlorobenzene	µg/l	1	A-T-006s							
n-Butylbenzene	µg/l	1	A-T-006s							
1,2-Dichlorobenzene	µg/l	1	A-T-006s							
1,2-Dibromo-3-chloropropane	µg/l	2	A-T-006s							
1,2,4-Trichlorobenzene	µg/l	3	A-T-006s							
Hexachlorobutadiene	µg/l	1	A-T-006s							
1,2,3-Trichlorobenzene	µg/l	3	A-T-006s							
Toluene	µg/l	1	A-T-006s							

Product (Oil) TPH CWG										
Ali >C5-C6	mg/l	0.01	A-T-022s							
Ali >C6-C8	mg/l	0.01	A-T-022s							
Ali >C8-C10	mg/l	1	A-T-055s							
Ali >C10-C12	mg/l	1	A-T-055s							
Ali >C12-C16	mg/l	1	A-T-055s							
Ali >C16-C21	mg/l	1	A-T-055s							
Ali >C21-C35	mg/l	1	A-T-055s							
Total Aliphatics	mg/l	1	A-T-055s							
Aro >C5-C7	mg/l	0.01	A-T-022s							
Aro >C7-C8	mg/l	0.01	A-T-022s							
Aro >C8-C10	mg/l	1	A-T-055s							
Aro >C10-C12	mg/l	1	A-T-055s							
Aro >C12-C16	mg/l	1	A-T-055s							
Aro >C16-C21	mg/l	1	A-T-055s							
Aro >C21-C35	mg/l	1	A-T-055s							
Total Aromatics	mg/l	1	A-T-055s							
TPH (Ali & Aro >C5-C35)	mg/l	1	A-T-055s							
BTEX - Benzene	mg/l	0.01	A-T-022s							
BTEX - Toluene	mg/l	0.01	A-T-022s							
BTEX - Ethyl Benzene	mg/l	0.01	A-T-022s							
BTEX - m & p Xylene	mg/l	0.01	A-T-022s							
BTEX - o Xylene	mg/l	0.01	A-T-022s							
MTBE	mg/l	0.01	A-T-022s							

TPH CWG (w)										
Ali >C5-C6 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	1	A-T-022w	<1	<1	<1	2	17	<1	<1
Ali >C8-C10 (w)	µg/l	5	A-T-055w	<5	<5	<5	124	250	<5	20
Ali >C10-C12 (w)	µg/l	5	A-T-055w	5	<5	<5	<25	164	<5	9
Ali >C12-C16 (w)	µg/l	5	A-T-055w	<5	<5	<5	86	63	<5	<5
Ali >C16-C21 (w)	µg/l	5	A-T-055w	<5	<5	<5	264	<50	<5	<5
Ali >C21-C35 (w)	µg/l	5	A-T-055w	6	<5	9	118	194	6	8
Total Aliphatics (w)	µg/l	5	A-T-055w	11	<5	9	594	688	6	37
Aro >C5-C7 (w)	µg/l	1	A-T-022w	7	<1	<1	15	4203	2	174
Aro >C7-C8 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	1848	<1	1
Aro >C8-C10 (w)	µg/l	5	A-T-055w	120	<5	6	3540	7100	<5	126
Aro >C10-C12 (w)	µg/l	5	A-T-055w	787	<5	16	3800	42700	<5	73
Aro >C12-C16 (w)	µg/l	5	A-T-055w	689	<5	15	4040	30300	23	189
Aro >C16-C21 (w)	µg/l	5	A-T-055w	251	9	16	449	2110	55	130
Aro >C21-C35 (w)	µg/l	10	A-T-055w	52	<10	<10	143	348	40	39
Total Aromatics (w)	µg/l	10	A-T-055w	1899	14	62	12000	88700	120	732
TPH (Ali & Aro >C5-C35) (w)	µg/l	10	A-T-055w	1911	14	71	12600	89300	126	769
BTEX - Benzene (w)	µg/l	1	A-T-022w	7	<1	<1	15	4203	2	174
BTEX - Toluene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	1848	<1	1
BTEX - Ethyl Benzene (w)	µg/l	1	A-T-022w	10	<1	<1	<1	77	<1	4
BTEX - m & p Xylene (w)	µg/l	1	A-T-022w	2	<1	<1	257	874	<1	8
BTEX - o Xylene (w)	µg/l	1	A-T-022w	4	<1	<1	285	326	<1	7
MTBE (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	<1	<1	<1

20/04947/5	20/04947/6	20/04947/7	20/04947/8	20/05580/1	20/04592/1	Test No.				GAC Screening		
BH19-05	BH19-06	BH19-07	BH19-08	BH305	Sump							
L	L	L	N	N/A	N							
18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	08-Jul-20	04-Jun-20							
Water - EW	Water - EW	Liquid - Product / Oil	Water - EW	Water - EW	Liquid - Product / Oil	Number of Samples	Min	Max	No. >detection	GAC	Source	No Exceeding GAC
N/A	N/A	N/A	N/A	N/A	N/A							
7.59	6.97		7.06	7.16		8	3.72	8.28				
232	60.3		132			7	60.3	238				
3250	3570			7290		7	1551	7290				
			849			5	428	1420				
	134					4	6.46	134				
3.7	1.5		2.6			7	<0.1	3.7	4			
25.7	4.8		94			7	4.8	216	5			
<0.005	<0.005					5	<0.005	0.049	2			
0.368	0.162			0.039		6	0.039	4.335	5	0.05	Surf Wate	5
25	7.3					5	0.6	25	5	0.05	Surf Wate	5
67.1				0.01		4	0.01	67.1	2	0.0077	EQS	3
			<1			5	<1	64	3	50	EQS	1
			271			5	102	420	5	1000	EQS	0
			1.1			5	<0.2	2.8	2	5	EQS	0
			3			5	<1	8	4	20	EQS	0
			3			5	<1	3	3	50	EQS	0
230	8520		85			7	85	8520	7	300	EQS	3
<0.1	<0.1		<0.1			7	<0.1	4.4	1			
0.2	8.5		<0.1			7	<0.1	8.5	6			
			<1			5	<1	4	1	0.05	EQS	1
3730	17400		14300			7	78	18300	7	300	EQS	6
			<0.1			5	<0.1	0.1	4	1	EQS	0
			68			5	2	226	5	50	EQS	2
			<1			5	<1	5	2	10	DWS	0
			181			5	5	413	5	500	EQS	0
130	2400		2300			7	130	2400	6			
3600	15000		12000			7	120	18000	7			

1670						4	0.17	3080	4			
37.6						4	0.02	37.6	4	0.1	EQS	3
13.8						4	0.06	43.3	4			
0.64						4	0.02	7.01	4			
0.24						4	<0.01	4.22	3	0.00017	EQS	3
0.3						4	<0.01	4.83	3			
<0.10						4	<0.01	1.35	2			
0.12						4	<0.01	1.78	3			
0.56						4	0.02	5.8	3			
<0.10						4	<0.01	0.42	1			
5.95						4	0.05	25	4	0.01	EQS	4
435						4	0.04	794	4			
0.13						4	<0.01	2.17	3			
8870						4	7.08	>11,100	4	10	EQS	3
79.5						4	<0.01	295	3			
3.42						4	0.03	16.4	4			
11100						4	7.56	11100	4			

					Possible PAHs							
					C12-21							
					NDP							

					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					208000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					<25000							
					1440000							
					57700							
					106000							
					74100							
					63200							
					69200							
					43300							
					34300							
					<25000							
					<25000							
					<25000							
					<125000							
					<25000							
					46300							
					62200							
					<25000							
					703000							
					<25000							
					<25000							
					<25000							
					<125000							
					193000							
					975000							
					<25000							
					<25000							
					<25000							
					40800							
					<25000							
					370000							
					<25000							
					<25000							
					<25000							
					<25000							
					413000							
					<25000							
					130000							

					<25							
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					90							
					1530							
					628							
					85							
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					<25							
					<25							
					457							
					<25							
					<50							
					1160							
					<25							
					29							
					<25							
					<25							
					<25							
					<25							
					<50							
					<75							
					<25							
					<75							
					490							

		19										
		277										
		4030										
		19000										
		19300										
		2590										
		<1										
		45200										
		>1330										
		>1030										
		81300										
		507000										
		350000										
		104000										
		63800										
		1110000										
		1150000										
		>1330										
		>1030										
		>430										
		>851										
		>673										
		<2.50										

<1	<1		<1			10	<1.0	0	0			
11	9		<1			10	<1	17	4	15000	WHO	0
214	137		<5			10	<5	250	6	300	WHO	0
352	99		7			10	<5	352	6	300	WHO	1
865	<25		<5			10	<5	865	3	300	WHO	1
718	<25		<5			10	<5	718	8	NA		
360	82		12			10	<5	360	9	NA		
2520	326		18			10	<5	2520	9			
2519	1075		20			10	<1	4203	8	1	WHO	8
707	336		3			10	<1	1848	5	70	WHO	3
5830	3430		20			10	<5	7100	8	300	WHO	4
47700	21700		49			10	<5	47700	8	90	WHO	5
64100	12800		272			10	<5	64100	9	90	WHO	7
4900	735		116			10	9	4900	10	90	WHO	7
989	132		32			10	<10	989	8	90	WHO	4
127000	40200		512			10	14	127000	10			
129000	40600		531			10	14	129000	10			
2519	1075		20			10	<1	4203	8	10	EQS	6
707	336		3			10	<1	1848	6	74	EQS	3
49	58		<1			10	<1	77	5	300	DWS	0
629	171		3			10	<1	874	7	500	DWS	2
246	91		1			10	<1	326	3	500	DWS	0
<1	<1		<1			10	<1	0	0			

Project Name:	Monckton
Project Number:	1015

Exceeds GAC

Lab Sample ID	Units	Limit of Detection	Method	20/04754/1	20/04754/2	20/04754/3	20/04754/4	Number of Samples	Min	Max	No. >detection	GAC	Source	No Exceeding GAC
Client Sample ID				BH201	WS20-03	RBH1D	RBH2							
Date Sampled				10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20							
Sample Type				Water - EW	Water - EW	Water - EW	Water - EW							
Sample Matrix Code				N/A	N/A	N/A	N/A							
Hardness Total	mg/l Ca CO3	2	A-T-049w	507		798	845	3	507	845	3			
Ammoniacal nitrogen as N (w)	mg/l	0.02	A-T-033w	<50.00		13.2	15.3	3	<50	15.3	2			
Cyanide (free) (w)	mg/l	0.005	A-T-042wFCN	<0.005		<0.005		2	<0.005	<0.005	0			
Cyanide (total) (w)	mg/l	0.005	A-T-042wTCN	0.07		0.018		2	0.018	0.07	2	0.05	Surf Wate	1
Thiocyanate (w)	mg/l	0.1	A-T-041w	0.3		1		2	0.3	1	2	0.05	Surf Wate	2
Phenols - Total by HPLC (w)	mg/l	0.01	A-T-050w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0	0.0077	EQS	0
Arsenic (dissolved)	µg/l	1	A-T-025w	<1			1	2	<1	1	1	50	EQS	0
Boron (dissolved)	µg/l	10	A-T-025w	200			119	2	119	200	2	1000	EQS	0
Cadmium (dissolved)	µg/l	0.2	A-T-025w	<0.2			<0.2	2	<0.2	<0.2	0	5	EQS	0
Copper (dissolved)	µg/l	1	A-T-025w	<1			1	2	<1	1	1	20	EQS	0
Chromium (dissolved)	µg/l	1	A-T-025w	<1			<1	2	<1	<1	0	50	EQS	0
Lead (dissolved)	µg/l	1	A-T-025w	<1			7	2	<1	7	1	0.05	EQS	1
Mercury (dissolved)	µg/l	0.1	A-T-025w	<0.1			<0.1	2	<0.1	<0.1	0	1	EQS	0
Nickel (dissolved)	µg/l	1	A-T-025w	3			11	2	3	11	2	50	EQS	0
Selenium (dissolved)	µg/l	1	A-T-025w	<1			<1	2	<1	<1	0	10	DWS	0
Zinc (dissolved)	µg/l	1	A-T-025w	5			8	2	5	8	2	500	EQS	0
PAH 16MS (w)														
Acenaphthene (w)	µg/l	0.01	A-T-019w	3.39		7.32	<0.01	3	<0.01	7.32	2			
Acenaphthylene (w)	µg/l	0.01	A-T-019w	0.12		0.22	0.02	3	0.02	0.22	3	0.1	EQS	2
Anthracene (w)	µg/l	0.01	A-T-019w	0.04		0.04	<0.01	3	<0.01	0.04	2			
Benzo(a)anthracene (w)	µg/l	0.01	A-T-019w	0.02		0.03	<0.01	3	<0.01	0.03	2			
Benzo(a)pyrene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0	0.00017	EQS	0
Benzo(b)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0			
Benzo(ghi)perylene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0			
Benzo(k)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0			
Chrysene (w)	µg/l	0.01	A-T-019w	0.03		0.03	<0.01	3	<0.01	0.03	2			
Dibenzo(ah)anthracene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0			
Fluoranthene (w)	µg/l	0.01	A-T-019w	0.16		0.2	0.02	3	0.02	0.2	3	0.0063	EQS	3
Fluorene (w)	µg/l	0.01	A-T-019w	0.2		1.08	<0.01	3	<0.01	1.08	2			
Indeno(123-cd)pyrene (w)	µg/l	0.01	A-T-019w	<0.01		<0.01	<0.01	3	<0.01	<0.01	0			
Naphthalene (w)	µg/l	0.01	A-T-019w	0.07		0.08	<0.01	3	<0.01	0.08	2	2	EQS	0
Phenanthrene (w)	µg/l	0.01	A-T-019w	0.24		0.2	0.02	3	0.02	0.24	3			
Pyrene (w)	µg/l	0.01	A-T-019w	0.14		0.17	0.02	3	0.02	0.17	3			
Total PAH 16MS (w)	µg/l	0.01	A-T-019w	4.41		9.37	0.08	3	0.02	9.37	3			
TPH CWG (w)														
Ali >C5-C6 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0			
Ali >C6-C8 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	15000	WHO	0
Ali >C8-C10 (w)	µg/l	5	A-T-055w	<5	<5	<5	<5	4	<5	<5	0	300	WHO	0
Ali >C10-C12 (w)	µg/l	5	A-T-055w	<5	<5	<5	<5	4	<5	<5	0	300	WHO	0
Ali >C12-C16 (w)	µg/l	5	A-T-055w	<5	<5	<5	<5	4	<5	<5	0	300	WHO	0
Ali >C16-C21 (w)	µg/l	5	A-T-055w	<5	<5	<5	<5	4	<5	<5	0	NA		
Ali >C21-C35 (w)	µg/l	5	A-T-055w	6	8	<5	5	4	<5	8	2	NA		
Total Aliphatics (w)	µg/l	5	A-T-055w	6	8	<5	5	4	<5	8	2			
Aro >C5-C7 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	1	WHO	0
Aro >C7-C8 (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	70	WHO	0
Aro >C8-C10 (w)	µg/l	5	A-T-055w	<5	<5	<5	<5	4	<5	<5	0	300	WHO	0
Aro >C10-C12 (w)	µg/l	5	A-T-055w	5	<5	<5	<5	4	<5	5	1	90	WHO	0
Aro >C12-C16 (w)	µg/l	5	A-T-055w	16	5	34	6	4	5	34	4	90	WHO	0
Aro >C16-C21 (w)	µg/l	5	A-T-055w	11	11	17	6	4	6	17	4	90	WHO	0
Aro >C21-C35 (w)	µg/l	10	A-T-055w	<10	<10	<10	<10	4	<10	<10	0	90	WHO	0
Total Aromatics (w)	µg/l	10	A-T-055w	40	23	59	21	4	21	59	4			
TPH (Ali & Aro >C5-C35) (w)	µg/l	10	A-T-055w	46	31	59	26	4	26	59	4			
BTEX - Benzene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	10	EQS	0
BTEX - Toluene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	74	EQS	0
BTEX - Ethyl Benzene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	300	DWS	0
BTEX - m & p Xylene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	500	DWS	0
BTEX - o Xylene (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0	500	DWS	0
MTBE (w)	µg/l	1	A-T-022w	<1	<1	<1	<1	4	<1	<1	0			

Project Name:	Monckton
Project Number:	1015

Lab Sample ID	Units	Limit of Detection	Method	20/04754/8	20/04754/9	Number of Samples	Min	Max	No. >detection	GAC	Source	No Exceeding GAC
Client Sample ID				WS9	WS20-10							
Date Sampled				10-Jun-20	10-Jun-20							
Sample Type				Water - EW	Water - EW							
Sample Matrix Code				N/A	N/A							
Hardness Total	mg/l Ca CO3	2	A-T-049w	551	935	2	551	935	2			
Ammoniacal nitrogen as N (w)	mg/l	0.02	A-T-033w	0.46	0.31	2	0.31	0.46	2			
Cyanide (free) (w)	mg/l	0.005	A-T-042wFCN	0.022	0.008	2	0.008	0.022	2			
Cyanide (total) (w)	mg/l	0.005	A-T-042wTCN	0.896	0.376	2	0.376	0.896	2	0.05	Surf Wate	2
Thiocyanate (w)	mg/l	0.1	A-T-041w	0.9	1.3	2	0.9	1.3	2	0.05	Surf Wate	2
Phenols - Total by HPLC (w)	mg/l	0.01	A-T-050w	<0.01	<0.01	2	<0.01	<0.01	0	0.0077	EQS	0
Arsenic (dissolved)	µg/l	1	A-T-025w	<1	<1	2	<1	<1	0	50	EQS	0
Boron (dissolved)	µg/l	10	A-T-025w	233	95	2	95	233	2	1000	EQS	0
Cadmium (dissolved)	µg/l	0.2	A-T-025w	<0.2	0.3	2	<0.2	0.3	1	5	EQS	0
Copper (dissolved)	µg/l	1	A-T-025w	7	4	2	4	7	2	20	EQS	0
Chromium (dissolved)	µg/l	1	A-T-025w	<1	4	2	<1	4	1	50	EQS	0
Lead (dissolved)	µg/l	1	A-T-025w	<1	<1	2	<1	<1	0	0.05	EQS	0
Mercury (dissolved)	µg/l	0.1	A-T-025w	<0.1	<0.1	2	<0.1	<0.1	0	1	EQS	0
Nickel (dissolved)	µg/l	1	A-T-025w	4	15	2	4	15	2	50	EQS	0
Selenium (dissolved)	µg/l	1	A-T-025w	14	22	2	14	22	2	10	DWS	2
Zinc (dissolved)	µg/l	1	A-T-025w	5	36	2	5	36	2	500	EQS	0
PAH 16MS (w)												
Acenaphthene (w)	µg/l	0.01	A-T-019w	0.02	0.04	2	0.02	0.04	2			
Acenaphthylene (w)	µg/l	0.01	A-T-019w	<0.01	0.02	2	<0.01	0.02	1	0.1	EQS	0
Anthracene (w)	µg/l	0.01	A-T-019w	<0.01	0.03	2	<0.01	0.03	1			
Benzo(a)anthracene (w)	µg/l	0.01	A-T-019w	<0.01	0.06	2	<0.01	0.06	1			
Benzo(a)pyrene (w)	µg/l	0.01	A-T-019w	<0.01	0.04	2	<0.01	0.04	1	0.00017	EQS	1
Benzo(b)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01	0.04	2	<0.01	0.04	1			
Benzo(ghi)perylene (w)	µg/l	0.01	A-T-019w	<0.01	0.01	2	<0.01	0.01	1			
Benzo(k)fluoranthene (w)	µg/l	0.01	A-T-019w	<0.01	0.02	2	<0.01	0.02	1			
Chrysene (w)	µg/l	0.01	A-T-019w	<0.01	0.06	2	<0.01	0.06	1			
Dibenzo(ah)anthracene (w)	µg/l	0.01	A-T-019w	<0.01	<0.01	2	<0.01	<0.1	0			
Fluoranthene (w)	µg/l	0.01	A-T-019w	0.01	0.19	2	0.01	0.19	2	0.0063	EQS	2
Fluorene (w)	µg/l	0.01	A-T-019w	<0.01	0.02	2	<0.01	0.02	1			
Indeno(123-cd)pyrene (w)	µg/l	0.01	A-T-019w	<0.01	0.02	2	<0.01	0.02	1			
Naphthalene (w)	µg/l	0.01	A-T-019w	<0.01	<0.01	2	<0.01	<0.01	0	2	EQS	0
Phenanthrene (w)	µg/l	0.01	A-T-019w	<0.01	0.1	2	<0.01	0.1	1			
Pyrene (w)	µg/l	0.01	A-T-019w	0.01	0.18	2	0.01	0.18	2			
Total PAH 16MS (w)	µg/l	0.01	A-T-019w	0.04	0.83	2	0.04	0.83	2			
TPH CWG (w)												
Ali >C5-C6 (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0				
Ali >C6-C8 (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0		15000	WHO	0
Ali >C8-C10 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		300	WHO	0
Ali >C10-C12 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		300	WHO	0
Ali >C12-C16 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		300	WHO	0
Ali >C16-C21 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		NA		
Ali >C21-C35 (w)	µg/l	5	A-T-055w	<5	5	2	<5	5	1	NA		
Total Aliphatics (w)	µg/l	5	A-T-055w	<5	5	2	<5	5	1			
Aro >C5-C7 (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0		1	WHO	0
Aro >C7-C8 (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0		70	WHO	0
Aro >C8-C10 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		300	WHO	0
Aro >C10-C12 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		90	WHO	0
Aro >C12-C16 (w)	µg/l	5	A-T-055w	<5	<5	2	<5	0		90	WHO	0
Aro >C16-C21 (w)	µg/l	5	A-T-055w	<5	7	2	<5	7	1	90	WHO	0
Aro >C21-C35 (w)	µg/l	10	A-T-055w	<10	<10	2	<10	0		90	WHO	0
Total Aromatics (w)	µg/l	10	A-T-055w	<10	<10	2	<10	0				
TPH (Ali & Aro >C5-C35) (w)	µg/l	10	A-T-055w	<10	12	2	<10	12	1			
BTEX - Benzene (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0		10	EQS	0
BTEX - Toluene (w)	µg/l	1	A-T-022w	<1	<1	2	<1	0		74	EQS	0
BTEX - Ethyl Benzene (w)	µg/l	1	A-T-022w	<1	<1	2	<5	0		300	DWS	0
BTEX - m & p Xylene (w)	µg/l	1	A-T-022w	<1	<1	2	<5	0		500	DWS	0
BTEX - o Xylene (w)	µg/l	1	A-T-022w	<1	<1	2	<5	0		500	DWS	0
MTBE (w)	µg/l	1	A-T-022w	<1	<1	2	<5	0				

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	20-15490-1
Initial Date of Issue:	25-Jun-2020
Client	Geo2 Remediation
Client Address:	Coniston House Louisa Street Idle Bradford BD10 8NE
Contact(s):	Ben Wilson Adam Wilson
Project	1075, Mockton

Quotation No.:		**Date Received:**	19-Jun-2020
Order No.:		**Date Instructed:**	19-Jun-2020
No. of Samples:	12		
Turnaround (Wkdays):	5	**Results Due:**	25-Jun-2020
Date Approved:	25-Jun-2020		

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 1075, Mockton

Client: Geo2 Remediation												
	Chemtest Job No.:	20-15490	20-15490	20-15490	20-15490	20-15490	20-15490	20-15490	20-15490	20-15490
Quotation No.:	Chemtest Sample ID.:	1019256	1019257	1019258	1019259	1019260	1019261	1019262	1019263	1019264
	Sample Location:	TP96	TP97	TP42	TP60	TP87	TP82	TP10	TP55	TP23
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.3	0.5
	Date Sampled:	15-Jun-2020	15-Jun-2020	04-Jun-2020	09-Jun-2020	11-Jun-2020	11-Jun-2020	29-May-2020	09-Jun-2020	03-Jun-2020

Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	13	7.1	6.9	16	12	14	1.9	12	11
Calorific Value	N	2140	MJ/kg	0.10	20	24	16	8.3	8.0	24	9.1	25	4.5

Results - Soil

Project: 1075, Mockton

Client: Geo2 Remediation							
Quotation No.:				**Chemtest Sample ID.:**	1019265	1019266	1019267
				Sample Location:	TP58	TP71	TP52
				Sample Type:	SOIL	SOIL	SOIL
				Top Depth (m):	0.4	0.2	0.4
				Date Sampled:	09-Jun-2020	09-Jun-2020	08-Jun-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Moisture	N	2030	%	0.020	13	7.4	14
Calorific Value	N	2140	MJ/kg	0.10	10	24	10

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2140	Calorific Value	Calorific Value	Bomb Calorimeter

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04950
Issue Number: 1 **Date:** 29 June, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 22/06/20
Date Instructions Received: 22/06/20
Date Analysis Completed: 29/06/20

Prepared by:

Sophie France
Client Service Manager

Approved by:

John Gustafson
Managing Director

UKAS TESTING
1247

Envirolab Job Number: 20/04950

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04950/1	20/04950/2	20/04950/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Train N	Train S	Wakefield N							
Depth to Top										
Depth To Bottom										
Date Sampled	19-Jun-20	19-Jun-20	19-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
Hardness Total$_{A}^{\#}$	528	730	313					mg/l Ca CO3	2	A-T-049w
Ammoniacal nitrogen as N (w)$_{A}^{\#}$	11.6	75.7	0.35					mg/l	0.02	A-T-033w
Cyanide (total) (w)$_{A}^{\#}$	0.267	0.240	0.049					mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w)$_{A}$	<0.01	0.03	<0.01					mg/l	0.01	A-T-050w
Arsenic (dissolved)$_{A}^{\#}$	<1	5	<1					µg/l	1	A-T-025w
Boron (dissolved)$_{A}^{\#}$	229	127	103					µg/l	10	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	0.6	1.3	<0.2					µg/l	0.2	A-T-025w
Copper (dissolved)$_{A}^{\#}$	7	9	8					µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	8	14	1					µg/l	1	A-T-025w
Lead (dissolved)$_{A}^{\#}$	<1	4	<1					µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	<0.1	<0.1	<0.1					µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	33	158	11					µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	2	5	<1					µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	6	169	15					µg/l	1	A-T-025w

Envirolab Job Number: 20/04950

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04950/1	20/04950/2	20/04950/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Train N	Train S	Wakefield N							
Depth to Top										
Depth To Bottom										
Date Sampled	19-Jun-20	19-Jun-20	19-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	1.54	611	0.05					µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	0.05	6.23	<0.01					µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	0.06	24.1	<0.01					µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	<0.01	0.68	<0.01					µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	0.01	0.26	<0.01					µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	0.01	0.34	<0.01					µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	<0.01	<0.10	<0.01					µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	<0.01	0.14	<0.01					µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	<0.01	0.73	<0.01					µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	<0.01	<0.10	<0.01					µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	0.07	*14.2*	<0.01					µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	0.20	182	<0.01					µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	<0.01	0.10	<0.01					µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	89.70	8.20	0.43					µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	0.03	128	<0.01					µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	0.02	8.08	<0.01					µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	91.7	970	0.48					µg/l	0.01	A-T-019w

Envirolab Job Number: 20/04950

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04950/1	20/04950/2	20/04950/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Train N	Train S	Wakefield N							
Depth to Top										
Depth To Bottom										
Date Sampled	19-Jun-20	19-Jun-20	19-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
TPH CWG (w)										
Ali >C5-C6 $(w)_A^{\#}$	<1	<1	<1					µg/l	1	A-T-022w
Ali >C6-C8 $(w)_A^{\#}$	<1	9	<1					µg/l	1	A-T-022w
Ali >C8-C10 $(w)_A^{\#}$	<5	126	<5					µg/l	5	A-T-055w
Ali >C10-C12 $(w)_A^{\#}$	<5	34	<5					µg/l	5	A-T-055w
Ali >C12-C16 $(w)_A^{\#}$	<5	17	<5					µg/l	5	A-T-055w
Ali >C16-C21 $(w)_A^{\#}$	<5	<5	<5					µg/l	5	A-T-055w
Ali >C21-C35 $(w)_A^{\#}$	7	<5	<5					µg/l	5	A-T-055w
Total Aliphatics $(w)_A^{\#}$	7	186	<5					µg/l	5	A-T-055w
Aro >C5-C7 $(w)_A^{\#}$	11	2233	8					µg/l	1	A-T-022w
Aro >C7-C8 $(w)_A^{\#}$	2	630	2					µg/l	1	A-T-022w
Aro >C8-C10 $(w)_A$	<5	1648	<5					µg/l	5	A-T-055w
Aro >C10-C12 $(w)_A^{\#}$	<5	3184	<5					µg/l	5	A-T-055w
Aro >C12-C16 $(w)_A^{\#}$	30	3953	<5					µg/l	5	A-T-055w
Aro >C16-C21 $(w)_A^{\#}$	110	361	<5					µg/l	5	A-T-055w
Aro >C21-C35 $(w)_A^{\#}$	67	32	<10					µg/l	10	A-T-055w
Total Aromatics $(w)_A$	221	12040	17					µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) $(w)_A$	228	12226	17					µg/l	10	A-T-055w
BTEX - Benzene $(w)_A^{\#}$	11	2233	8					µg/l	1	A-T-022w
BTEX - Toluene $(w)_A^{\#}$	2	630	2					µg/l	1	A-T-022w
BTEX - Ethyl Benzene $(w)_A^{\#}$	<1	19	<1					µg/l	1	A-T-022w
BTEX - m & p Xylene $(w)_A^{\#}$	<1	245	<1					µg/l	1	A-T-022w
BTEX - o Xylene $(w)_A^{\#}$	<1	94	<1					µg/l	1	A-T-022w
MTBE $(w)_A^{\#}$	<1	<1	<1					µg/l	1	A-T-022w

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04950

Date Received: 22/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 16.0

Clients Project No: 1015

Lab Sample ID	20/04950/1	20/04950/2	20/04950/3
Client Sample No			
Client Sample ID/Depth	Train N	Train S	Wakefield N
Date Sampled	19/06/20	19/06/20	19/06/20
Deviation Code			
A7 (no HNO3)	✓	✓	✓
A8 (no NaOH)	✓	✓	✓
A9 (no H2SO4)	✓	✓	✓

Key

A7 (no HNO3) *No HNO3 preserved bottle provided (dissolved metals will be deviating)*

A8 (no NaOH) *No NaOH preserved bottle provided (cyanides, sulphide will be deviating)*

A9 (no H2SO4) *No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04947
Issue Number: 1 **Date:** 07 July, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1075
Order No: 1075
Date Samples Received: 22/06/20
Date Instructions Received: 22/06/20
Date Analysis Completed: 07/07/20

Prepared by:

Danielle Brierley
Client Manager

Approved by:

Holly Neary-King
Administration & Client Services Supervisor

UKAS TESTING
1247

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/1	20/04947/2	20/04947/3	20/04947/4	20/04947/5	20/04947/6	20/04947/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-01	BH19-02	BH19-03	BH19-04	BH19-05	BH19-06	BH19-07			
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Liquid - Product / Oil			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w)$_A^{\#}$	8.27	8.28	8.01	3.72	7.59	6.97	-	pH	0.01	A-T-031w
Redox Potential (w)$_A$	206	197	188	238	232	60.3	-	mV		A-T-048
Electrical conductivity @ 20degC (w)$_A^{\#}$	1868	2950	1551	4430	3250	3570	-	µs/cm	10	A-T-037w
Dissolved oxygen$_A$	<0.5	<0.5	1.3	6.9	<0.5	<0.5	-	mg/l	0.5	A-T-048
Hardness Total$_A^{\#}$	520	428	1420	-	-	-	-	mg/l Ca CO3	2	A-T-049w
Ammoniacal nitrogen as N (w)$_A^{\#}$	-	22.3	11.2	-	-	134	-	mg/l	0.02	A-T-033w
Nitrite (w)$_A^{\#}$	<0.1	<0.1	3.3	<0.1	3.7	1.5	-	mg/l	0.1	A-T-026w
Nitrate (w)$_A^{\#}$	<0.1	<0.1	216	81.9	25.7	4.8	-	mg/l	0.1	A-T-026w
Cyanide (free) (w)$_A^{\#}$	-	0.008	0.049	-	<0.005	<0.005	-	mg/l	0.005	A-T-042wFCN
Cyanide (total) (w)$_A^{\#}$	-	0.391	4.335	-	0.368	0.162	-	mg/l	0.005	A-T-042wTCN
Thiocyanate (w)$_A$	-	13	1.7	-	25	7.3	-	mg/l	0.1	A-T-041w
Phenols - Total by HPLC (w)$_A$	-	14	<0.01	-	67.1	-	-	mg/l	0.01	A-T-050w
Arsenic (dissolved)$_A^{\#}$	64	-	-	7	-	-	-	µg/l	1	A-T-025w
Boron (dissolved)$_A^{\#}$	420	-	-	133	-	-	-	µg/l	10	A-T-025w
Cadmium (dissolved)$_A^{\#}$	<0.2	-	-	2.8	-	-	-	µg/l	0.2	A-T-025w
Copper (dissolved)$_A^{\#}$	1	-	-	8	-	-	-	µg/l	1	A-T-025w
Chromium (dissolved)$_A^{\#}$	<1	-	-	3	-	-	-	µg/l	1	A-T-025w
Iron (dissolved)$_A^{\#}$	111	262	1530	4610	230	8520	-	µg/l	10	A-T-025w
Ferrous iron FeII (w)$_A$	<0.1	<0.1	<0.1	4.4	<0.1	<0.1	-	mg/l	0.1	Colorimetric
Ferric iron FeIII (w)	0.1	0.3	1.5	0.2	0.2	8.5	-	mg/l	0.1	Calc
Lead (dissolved)$_A^{\#}$	<1	-	-	4	-	-	-	µg/l	1	A-T-025w
Manganese (dissolved)$_A^{\#}$	690	78	4720	18300	3730	17400	-	µg/l	1	A-T-025w
Mercury (dissolved)$_A^{\#}$	0.1	-	-	<0.1	-	-	-	µg/l	0.1	A-T-025w
Nickel (dissolved)$_A^{\#}$	2	-	-	226	-	-	-	µg/l	1	A-T-025w
Selenium (dissolved)$_A^{\#}$	<1	-	-	5	-	-	-	µg/l	1	A-T-025w
Zinc (dissolved)$_A^{\#}$	68	-	-	413	-	-	-	µg/l	1	A-T-025w
Manganese IV (w)	130	<1	1920	300	130	2400	-	µg/l	1	Calc
Manganese II (w)$_A$	560	120	2800	18000	3600	15000	-	µg/l	1	Subcon Chemtest

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/1	20/04947/2	20/04947/3	20/04947/4	20/04947/5	20/04947/6	20/04947/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-01	BH19-02	BH19-03	BH19-04	BH19-05	BH19-06	BH19-07			
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Liquid - Product / Oil			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	-	-	0.17	-	-	-	-	µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	-	-	0.02	-	-	-	-	µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	-	-	0.06	-	-	-	-	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	-	-	0.02	-	-	-	-	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	-	-	0.02	-	-	-	-	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	-	-	0.02	-	-	-	-	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	-	-	0.01	-	-	-	-	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	-	-	0.01	-	-	-	-	µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	-	-	0.02	-	-	-	-	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	-	-	<0.01	-	-	-	-	µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	-	-	0.05	-	-	-	-	µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	-	-	0.04	-	-	-	-	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	-	-	0.01	-	-	-	-	µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	-	-	7.08	-	-	-	-	µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	-	-	<0.01	-	-	-	-	µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	-	-	0.03	-	-	-	-	µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	-	-	7.56	-	-	-	-	µg/l	0.01	A-T-019w

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/1	20/04947/2	20/04947/3	20/04947/4	20/04947/5	20/04947/6	20/04947/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-01	BH19-02	BH19-03	BH19-04	BH19-05	BH19-06	BH19-07			
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Liquid - Product / Oil			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Product (Oil) TPH CWG										
Ali >C5-C6$_A$	-	-	-	-	-	-	19	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	-	-	-	-	-	-	277	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	-	-	-	-	-	-	4030	mg/kg	1	A-T-055s
Ali >C10-C12$_A$	-	-	-	-	-	-	19000	mg/kg	1	A-T-055s
Ali >C12-C16$_A$	-	-	-	-	-	-	19300	mg/kg	1	A-T-055s
Ali >C16-C21$_A$	-	-	-	-	-	-	2590	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	-	-	-	-	-	-	<1	mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	-	-	-	-	-	45200	mg/kg	1	A-T-055s
Aro >C5-C7$_A$	-	-	-	-	-	-	>1330	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A$	-	-	-	-	-	-	>1030	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	-	-	-	-	-	-	81300	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	-	-	-	-	-	-	507000	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	-	-	-	-	-	-	350000	mg/kg	1	A-T-055s
Aro >C16-C21$_A$	-	-	-	-	-	-	104000	mg/kg	1	A-T-055s
Aro >C21-C35$_A$	-	-	-	-	-	-	63800	mg/kg	1	A-T-055s
Total Aromatics$_A$	-	-	-	-	-	-	1110000	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	-	-	-	-	-	-	1150000	mg/kg	1	A-T-055s
BTEX - Benzene$_A$	-	-	-	-	-	-	>1330	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A$	-	-	-	-	-	-	>1030	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A$	-	-	-	-	-	-	>430	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A$	-	-	-	-	-	-	>851	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A$	-	-	-	-	-	-	>673	mg/kg	0.01	A-T-022s
MTBE$_A$	-	-	-	-	-	-	<2.50	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/1	20/04947/2	20/04947/3	20/04947/4	20/04947/5	20/04947/6	20/04947/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-01	BH19-02	BH19-03	BH19-04	BH19-05	BH19-06	BH19-07			
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20	18-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Liquid - Product / Oil			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH CWG (w)										
Ali >C5-C6 $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	-	µg/l	1	A-T-022w
Ali >C6-C8 $(w)_A^{\#}$	2	17	<1	<1	11	9	-	µg/l	1	A-T-022w
Ali >C8-C10 $(w)_A^{\#}$	124	250	<5	20	214	137	-	µg/l	5	A-T-055w
Ali >C10-C12 $(w)_A^{\#}$	<25	164	<5	9	352	99	-	µg/l	5	A-T-055w
Ali >C12-C16 $(w)_A^{\#}$	86	63	<5	<5	865	<25	-	µg/l	5	A-T-055w
Ali >C16-C21 $(w)_A^{\#}$	264	<50	<5	<5	718	<25	-	µg/l	5	A-T-055w
Ali >C21-C35 $(w)_A^{\#}$	118	194	6	8	360	82	-	µg/l	5	A-T-055w
Total Aliphatics $(w)_A^{\#}$	594	688	6	37	2520	326	-	µg/l	5	A-T-055w
Aro >C5-C7 $(w)_A^{\#}$	15	4203	2	174	2519	1075	-	µg/l	1	A-T-022w
Aro >C7-C8 $(w)_A^{\#}$	<1	1848	<1	1	707	336	-	µg/l	1	A-T-022w
Aro >C8-C10 $(w)_A$	3540	7100	<5	126	5830	3430	-	µg/l	5	A-T-055w
Aro >C10-C12 $(w)_A^{\#}$	3800	42700	<5	73	47700	21700	-	µg/l	5	A-T-055w
Aro >C12-C16 $(w)_A^{\#}$	4040	30300	23	189	64100	12800	-	µg/l	5	A-T-055w
Aro >C16-C21 $(w)_A^{\#}$	449	2110	55	130	4900	735	-	µg/l	5	A-T-055w
Aro >C21-C35 $(w)_A^{\#}$	143	348	40	39	989	132	-	µg/l	10	A-T-055w
Total Aromatics $(w)_A$	12000	88700	120	732	127000	40200	-	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) $(w)_A$	12600	89300	126	769	129000	40600	-	µg/l	10	A-T-055w
BTEX - Benzene $(w)_A^{\#}$	15	4203	2	174	2519	1075	-	µg/l	1	A-T-022w
BTEX - Toluene $(w)_A^{\#}$	<1	1848	<1	1	707	336	-	µg/l	1	A-T-022w
BTEX - Ethyl Benzene $(w)_A^{\#}$	<1	77	<1	4	49	58	-	µg/l	1	A-T-022w
BTEX - m & p Xylene $(w)_A^{\#}$	257	874	<1	8	629	171	-	µg/l	1	A-T-022w
BTEX - o Xylene $(w)_A^{\#}$	285	326	<1	7	246	91	-	µg/l	1	A-T-022w
MTBE $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	-	µg/l	1	A-T-022w

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08									
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20									
Sample Type	Water - EW									
Sample Matrix Code	N/A									
pH (w)$_A^{\#}$	7.06							pH	0.01	A-T-031w
Redox Potential (w)$_A$	132							mV		A-T-048
Electrical conductivity @ 20degC (w)$_A^{\#}$	3490							µs/cm	10	A-T-037w
Dissolved oxygen$_A$	3.3							mg/l	0.5	A-T-048
Hardness Total$_A^{\#}$	849							mg/l Ca CO3	2	A-T-049w
Nitrite (w)$_A^{\#}$	2.6							mg/l	0.1	A-T-026w
Nitrate (w)$_A^{\#}$	94.0							mg/l	0.1	A-T-026w
Arsenic (dissolved)$_A^{\#}$	<1							µg/l	1	A-T-025w
Boron (dissolved)$_A^{\#}$	271							µg/l	10	A-T-025w
Cadmium (dissolved)$_A^{\#}$	1.1							µg/l	0.2	A-T-025w
Copper (dissolved)$_A^{\#}$	3							µg/l	1	A-T-025w
Chromium (dissolved)$_A^{\#}$	3							µg/l	1	A-T-025w
Iron (dissolved)$_A^{\#}$	85							µg/l	10	A-T-025w
Ferrous iron FeII (w)$_A$	<0.1							mg/l	0.1	Colorimetric
Ferric iron FeIII (w)	<0.1							mg/l	0.1	Calc
Lead (dissolved)$_A^{\#}$	<1							µg/l	1	A-T-025w
Manganese (dissolved)$_A^{\#}$	14300							µg/l	1	A-T-025w
Mercury (dissolved)$_A^{\#}$	<0.1							µg/l	0.1	A-T-025w
Nickel (dissolved)$_A^{\#}$	68							µg/l	1	A-T-025w
Selenium (dissolved)$_A^{\#}$	<1							µg/l	1	A-T-025w
Zinc (dissolved)$_A^{\#}$	181							µg/l	1	A-T-025w
Manganese IV (w)	2300							µg/l	1	Calc
Manganese II (w)$_A$	12000							µg/l	1	Subcon Chemtest

Envirolab Job Number: 20/04947

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04947/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08									
Depth to Top										
Depth To Bottom										
Date Sampled	18-Jun-20									
Sample Type	Water - EW									
Sample Matrix Code	N/A									
TPH CWG (w)										
Ali >C5-C6 (w)$_A^{\#}$	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w)$_A^{\#}$	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w)$_A^{\#}$	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w)$_A^{\#}$	7							µg/l	5	A-T-055w
Ali >C12-C16 (w)$_A^{\#}$	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w)$_A^{\#}$	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w)$_A^{\#}$	12							µg/l	5	A-T-055w
Total Aliphatics (w)$_A^{\#}$	18							µg/l	5	A-T-055w
Aro >C5-C7 (w)$_A^{\#}$	20							µg/l	1	A-T-022w
Aro >C7-C8 (w)$_A^{\#}$	3							µg/l	1	A-T-022w
Aro >C8-C10 (w)$_A$	20							µg/l	5	A-T-055w
Aro >C10-C12 (w)$_A^{\#}$	49							µg/l	5	A-T-055w
Aro >C12-C16 (w)$_A^{\#}$	272							µg/l	5	A-T-055w
Aro >C16-C21 (w)$_A^{\#}$	116							µg/l	5	A-T-055w
Aro >C21-C35 (w)$_A^{\#}$	32							µg/l	10	A-T-055w
Total Aromatics (w)$_A$	512							µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w)$_A$	531							µg/l	10	A-T-055w
BTEX - Benzene (w)$_A^{\#}$	20							µg/l	1	A-T-022w
BTEX - Toluene (w)$_A^{\#}$	3							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w)$_A^{\#}$	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w)$_A^{\#}$	3							µg/l	1	A-T-022w
BTEX - o Xylene (w)$_A^{\#}$	1							µg/l	1	A-T-022w
MTBE (w)$_A^{\#}$	<1							µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04947

Date Received: 22/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 15.0 & 15.5

Clients Project No: 1075

Lab Sample ID	20/04947/1	20/04947/2	20/04947/3	20/04947/4	20/04947/5	20/04947/6	20/04947/7	20/04947/8
Client Sample No								
Client Sample ID/Depth	BH19-01	BH19-02	BH19-03	BH19-04	BH19-05	BH19-06	BH19-07	BH19-08
Date Sampled	18/06/20	18/06/20	18/06/20	18/06/20	18/06/20	18/06/20	18/06/20	18/06/20
Deviation Code								
A7 (no HNO3)	✓	✓	✓	✓	✓	✓		✓
A8 (no NaOH)		✓	✓		✓	✓		
A9 (no H2SO4)		✓	✓		✓	✓		
A11 (no HCl)	✓	✓	✓	✓	✓	✓	✓	✓

Key

A7 (no HNO3) *No HNO3 preserved bottle provided (dissolved metals will be deviating)*

A8 (no NaOH) *No NaOH preserved bottle provided (cyanides, sulphide will be deviating)*

A9 (no H2SO4) *No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)*

A11 (no HCl) *No HCl preserved bottle provided (Fe2+ will be deviating)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04888
Issue Number: 1 **Date:** 26 June, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015-5
Date Samples Received: 17/06/20
Date Instructions Received: 18/06/20
Date Analysis Completed: 26/06/20

Prepared by:

Danielle Brierley
Client Manager

Approved by:

John Gustafson
Managing Director

Envirolab Job Number: 20/04888

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04888/1	20/04888/2	20/04888/3	20/04888/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP97	TP94	TP94	TP95						
Depth to Top	2.20	0.40	2.20	0.20						
Depth To Bottom										
Date Sampled	15-Jun-20	15-Jun-20	15-Jun-20	15-Jun-20						
Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
% Stones >10mm$_A$	1.9	2.8	0.8	20.9				% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.51	-	7.34	-				pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	-	0.16	-				g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	851	-				mg/kg	50	A-T-024s
Total Organic Carbon$_D$$^{M\#}$	-	-	1.29	-				% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	-	14	-	26				mg/kg	1	A-T-024s
Barium$_D$	-	77	-	127				mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	-	1.2	-	0.6				mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	-	0.7	-	1.4				mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	-	40	-	57				mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	-	19	-	28				mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	-	17	-	237				mg/kg	1	A-T-024s
Mercury$_D$	-	<0.17	-	<0.17				mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	-	29	-	36				mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	-	<1	-	<1				mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	-	25	-	26				mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	-	82	-	127				mg/kg	5	A-T-024s

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Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	-	-	-	NAD						A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	-	-	-	N/A						A-T-045

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Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
SVOC										
Hexachlorobenzene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Dibenzofuran$_A$	4960	-	-	-				µg/kg	100	A-T-052s
Carbazole$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<5000	-	-	-				µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2-Methylphenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	2680	-	-	-				µg/kg	100	A-T-052s
Acenaphthylene$_A$	1410	-	-	-				µg/kg	100	A-T-052s
Acenaphthene$_A$	6210	-	-	-				µg/kg	100	A-T-052s
Anthracene$_A$	4310	-	-	-				µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	6080	-	-	-				µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	5670	-	-	-				µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	2810	-	-	-				µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	4710	-	-	-				µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	3320	-	-	-				µg/kg	100	A-T-052s
Chrysene$_A$	6960	-	-	-				µg/kg	100	A-T-052s

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Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
Fluoranthene$_A$	15700	-	-	-				µg/kg	100	A-T-052s
Fluorene$_A$	5710	-	-	-				µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	3780	-	-	-				µg/kg	100	A-T-052s
Phenanthrene$_A$	15300	-	-	-				µg/kg	100	A-T-052s
Pyrene$_A$	16400	-	-	-				µg/kg	100	A-T-052s
Naphthalene$_A$	3050	-	-	-				µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Phenol$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<5000	-	-	-				µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Nitrobenzene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Isophorone$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Hexachloroethane$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<1000	-	-	-				µg/kg	100	A-T-052s
Perylene$_A$	1580	-	-	-				µg/kg	100	A-T-052s

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Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
VOC										
Dichlorodifluoromethane$_{A}$	<1	-	-	-				µg/kg	1	A-T-006s
Chloromethane$_{A}$	<10	-	-	-				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	13	-	-	-				µg/kg	1	A-T-006s
Dichloromethane$_{A}$	<5	-	-	-				µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	<5	-	-	-				µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	<2	-	-	-				µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	10	-	-	-				µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	<10	-	-	-				µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	3	-	-	-				µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	<3	-	-	-				µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s

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Depth to Top	2.20	0.40	2.20	0.20						
Depth To Bottom										
Date Sampled	15-Jun-20	15-Jun-20	15-Jun-20	15-Jun-20						
Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
Chlorobenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	<1	-	-	-				µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	4	-	-	-				µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	14	-	-	-				µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	5	-	-	-				µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	3	-	-	-				µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	<2	-	-	-				µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	5	-	-	-				µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	4	-	-	-				µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	<1	-	-	-				µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	<2	-	-	-				µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	<3	-	-	-				µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	<1	-	-	-				µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	<3	-	-	-				µg/kg	3	A-T-006s

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Depth To Bottom										
Date Sampled	15-Jun-20	15-Jun-20	15-Jun-20	15-Jun-20						
Sample Type	Soil	Soil	Soil	Soil						
Sample Matrix Code	5A	6AB	5A	6A						
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<100	-	<1	-				mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<100	-	<1	-				mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<100	-	<1	-				mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	405	-	<1	-				mg/kg	1	A-T-055s
Ali >C21-C35$_A$	30000	-	2	-				mg/kg	1	A-T-055s
Total Aliphatics$_A$	30400	-	2	-				mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<100	-	<1	-				mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	<100	-	<1	-				mg/kg	1	A-T-055s
Aro >C12-C16$_A$	264	-	<1	-				mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	749	-	<1	-				mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	5370	-	4	-				mg/kg	1	A-T-055s
Total Aromatics$_A$	6380	-	4	-				mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	36800	-	6	-				mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	-	<0.01	-				mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04888

Date Received: 18/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 17.4

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04887
Issue Number: 1 **Date:** 26 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 17/06/20
Date Instructions Received: 18/06/20
Date Analysis Completed: 26/06/20

Prepared by:



Richard Wong
Client Manager

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	48.0	<0.1		% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.98	-	-	-	-	-		pH	0.01	A-T-031s
Cyanide (free)$_A^{M\#}$	<1	-	4	-	-	-		mg/kg	1	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	29	-	86	-	-	-		mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	9	-	<5	-	-	-		mg/kg	5	A-T-041s
Arsenic$_D^{M\#}$	-	4	-	4	2	-		mg/kg	1	A-T-024s
Barium$_D$	-	204	-	101	42	-		mg/kg	1	A-T-024s
Beryllium$_D^{\#}$	-	1.2	-	1.0	<0.5	-		mg/kg	0.5	A-T-024s
Cadmium$_D^{M\#}$	-	0.6	-	0.6	<0.5	-		mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	-	26	-	29	12	-		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	-	22	-	33	10	-		mg/kg	1	A-T-024s
Lead$_D^{M\#}$	-	31	-	37	15	-		mg/kg	1	A-T-024s
Mercury$_D$	-	<0.17	-	0.30	0.56	-		mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	-	33	-	28	9	-		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	-	2	-	1	1	-		mg/kg	1	A-T-024s
Vanadium$_D^{M\#}$	-	21	-	27	11	-		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	-	66	-	82	33	-		mg/kg	5	A-T-024s

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	-	Chrysotile	-	NAD	NAD	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	Bitumen & Loose Fibres	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	-	N/A	-	N/A	N/A	-				A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	-	<0.001	-	-	-	-		% w/w	0.001	A-T-054

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
SVOC										
Hexachlorobenzene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Dibenzofuran$_A$	<100	-	<100	-	-	542		µg/kg	100	A-T-052s
Carbazole$_A$	1340	-	<100	-	-	<100		µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<500	-	<500	-	-	<500		µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<200	-	<200	-	-	<200		µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<100	-	<100	-	-	146		µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2-Methylphenol$_A$	<100	-	<100	-	-	141		µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<100	-	<100	-	-	454		µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	<100	-	<100	-	-	3790		µg/kg	100	A-T-052s
Acenaphthylene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Acenaphthene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Anthracene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Chrysene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
Fluoranthene$_A$	<100	-	160	-	-	<100		µg/kg	100	A-T-052s
Fluorene$_A$	<100	-	<100	-	-	146		µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Phenanthrene$_A$	<100	-	<100	-	-	597		µg/kg	100	A-T-052s
Pyrene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Naphthalene$_A$	<100	-	<100	-	-	4660		µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Phenol$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<500	-	<500	-	-	<500		µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Nitrobenzene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Isophorone$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Hexachloroethane$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s
Perylene$_A$	<100	-	<100	-	-	<100		µg/kg	100	A-T-052s

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
VOC										
Dichlorodifluoromethane$_A$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Chloromethane$_A$	<10	-	<10	-	-	<10		µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Bromomethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Chloroethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Carbon Disulphide$_A^\#$	64	-	<1	-	-	<1		µg/kg	1	A-T-006s
Dichloromethane$_A$	<5	-	<5	-	-	<5		µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Bromochloromethane$_A^\#$	<5	-	<5	-	-	<5		µg/kg	5	A-T-006s
Chloroform$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^\#$	<2	-	<2	-	-	<2		µg/kg	2	A-T-006s
Benzene$_A^\#$	<1	-	<1	-	-	7		µg/kg	1	A-T-006s
Trichloroethene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Dibromomethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Bromodichloromethane$_A^\#$	<10	-	<10	-	-	<10		µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Toluene$_A^\#$	<1	-	<1	-	-	9		µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Tetrachloroethene$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Dibromochloromethane$_A^\#$	<3	-	<3	-	-	<3		µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^\#$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
Chlorobenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	<1	-	<1	-	-	3		µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	<1	-	<1	-	-	7		µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	<1	-	<1	-	-	3		µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	<2	-	<2	-	-	<2		µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	<1	-	<1	-	-	2		µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	<2	-	<2	-	-	<2		µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	<3	-	<3	-	-	<3		µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	<1	-	<1	-	-	<1		µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	<3	-	<3	-	-	<3		µg/kg	3	A-T-006s

Envirolab Job Number: 20/04887

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04887/1	20/04887/2	20/04887/3	20/04887/4	20/04887/5	20/04887/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP104	TP104	TP103	TP99	TP100	TP107				
Depth to Top	1.20	1.00	4.00	1.70	1.80	2.00				
Depth To Bottom										
Date Sampled	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20				
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil				
Sample Matrix Code	7	5AB	5A	5AB	6A	6A				
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.08		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.31		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	30		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	15		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	2	<1	<1	1	1	16		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	5	<1	<1	1	1	8		mg/kg	1	A-T-055s
Ali >C21-C35$_A$	4	10	15	17	5	8		mg/kg	1	A-T-055s
Total Aliphatics$_A$	9	10	15	20	7	78		mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.09		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	1	2	66		mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	<1	<1	<1	1	2	45		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	2	1	<1	5	5	90		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	4	2	1	10	5	42		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	4	6	4	31	9	28		mg/kg	1	A-T-055s
Total Aromatics$_A$	11	9	6	48	23	272		mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	20	20	20	68	31	350		mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.09		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.05		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.15		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	0.09		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40℃).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25℃ / 11550µS/cm @ 20℃ fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04887

Date Received: 18/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 17.4

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04757
Issue Number: 1 **Date:** 22 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 12/06/20
Date Instructions Received: 15/06/20
Date Analysis Completed: 22/06/20

Prepared by:

Sophie France
Client Service Manager

Approved by:

John Gustafson
Managing Director

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
% Stones >10mm$_A$	8.3	15.1	29.1	<0.1	40.5	35.2	17.6	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.82	-	-	7.39	-	7.33	-	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	-	-	0.33	-	-	-	g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	-	1580	-	-	-	mg/kg	50	A-T-024s
Cyanide (free)$_A$$^{M\#}$	<1	-	-	-	-	-	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	<1	-	-	-	-	-	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	<5	-	-	-	-	-	-	mg/kg	5	A-T-041s
Total Organic Carbon$_D$$^{M\#}$	-	15.7	-	2.80	-	-	-	% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	-	32	28	-	-	21	26	mg/kg	1	A-T-024s
Barium$_D$	-	1990	112	-	-	76	137	mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	-	1.4	0.9	-	-	2.0	1.3	mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	-	1.3	1.3	-	-	2.4	2.1	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	-	71	30	-	-	89	53	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	-	20	14	-	-	16	27	mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	-	32	26	-	-	14	41	mg/kg	1	A-T-024s
Mercury$_D$	-	<0.17	<0.17	-	-	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	-	38	19	-	-	40	30	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	-	<1	<1	-	-	<1	<1	mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	-	42	19	-	-	34	31	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	-	31	40	-	-	40	72	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_D^{\#}$	-	NAD	NAD	-	NAD	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	-	N/A	N/A	-	N/A	-	-			A-T-045

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
SVOC										
Hexachlorobenzene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	285	-	-	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<500	-	-	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<1000	-	-	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	368	-	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	193	-	-	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	127	-	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
Fluoranthene$_A$	212	-	-	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	161	-	-	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	380	-	-	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	188	-	-	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	180	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<500	-	-	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
VOC										
Dichlorodifluoromethane$_{A}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_{A}$	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_{A}$	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	4	-	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/04757 **Client Project Name: Monckton**

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
Chlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_A^\#$	4	-	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_A^\#$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_A$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_A$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_A$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/1	20/04757/2	20/04757/3	20/04757/4	20/04757/5	20/04757/6	20/04757/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP87	TP86	TP84	TP87	TP85	TP81	TP83			
Depth to Top	2.70	0.50		2.00	0.30	0.40	0.30			
Depth To Bottom										
Date Sampled	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20	11-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	5A	6A	6AB	5AB	6AB	6A	6ABE			
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	16	-	2	-	-	-	-	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	11	-	2	-	-	-	-	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	17	-	3	-	-	-	-	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	12	-	10	-	-	-	-	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	89	-	44	-	-	-	-	mg/kg	1	A-T-055s
Total Aliphatics$_A$	146	-	61	-	-	-	-	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	13	-	2	-	-	-	-	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	15	-	3	-	-	-	-	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	41	-	10	-	-	-	-	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	32	-	16	-	-	-	-	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	46	-	33	-	-	-	-	mg/kg	1	A-T-055s
Total Aromatics$_A$	149	-	64	-	-	-	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	295	-	125	-	-	-	-	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP88									
Depth to Top	0.20									
Depth To Bottom										
Date Sampled	11-Jun-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
% Stones >10mm$_A$	46.7							% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.97							pH	0.01	A-T-031s
Arsenic$_D$$^{M\#}$	9							mg/kg	1	A-T-024s
Barium$_D$	65							mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	0.6							mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	1.0							mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	36							mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	20							mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	31							mg/kg	1	A-T-024s
Mercury$_D$	1.23							mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	16							mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1							mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	21							mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	107							mg/kg	5	A-T-024s

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	**20/04757/8**							**Units**	**Limit of Detection**	**Method ref**
Client Sample No										
Client Sample ID	**TP88**									
Depth to Top	**0.20**									
Depth To Bottom										
Date Sampled	**11-Jun-20**									
Sample Type	**Soil**									
Sample Matrix Code	**6AB**									
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	**NAD**									A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	**N/A**									A-T-045

Envirolab Job Number: 20/04757

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04757/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP88									
Depth to Top	0.20									
Depth To Bottom										
Date Sampled	11-Jun-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	0.01							mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	6							mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	3							mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	5							mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	5							mg/kg	1	A-T-055s
Ali >C21-C35$_A$	29							mg/kg	1	A-T-055s
Total Aliphatics$_A$	48							mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	7							mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	8							mg/kg	1	A-T-055s
Aro >C12-C16$_A$	34							mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	62							mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	108							mg/kg	1	A-T-055s
Total Aromatics$_A$	220							mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	268							mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04757

Date Received: 15/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 17.9

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04754
Issue Number: 1 **Date:** 19 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 15/06/20
Date Instructions Received: 15/06/20
Date Analysis Completed: 19/06/20

Prepared by:



Sophie France
Client Service Manager

Approved by:



Richard Wong
Client Manager

UKAS TESTING
1247

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/1	20/04754/2	20/04754/3	20/04754/4	20/04754/5	20/04754/6	20/04754/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	(R)BH201	WS20-03	RBH1D	RBH2	BH305	RBH4	RBH4A			
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hardness Total$_{A}^{\#}$	507	-	798	845	883	-	-	mg/l Ca CO3	2	A-T-049w
Ammoniacal nitrogen as N (w)$_{A}^{\#}$	<50.00	-	13.2	15.3	6.46	-	-	mg/l	0.02	A-T-033w
Cyanide (free) (w)$_{A}^{\#}$	<0.005	-	<0.005	-	-	-	<0.005	mg/l	0.005	A-T-042wFCN
Cyanide (total) (w)$_{A}^{\#}$	0.070	-	0.018	-	-	-	0.061	mg/l	0.005	A-T-042wTCN
Thiocyanate (w)$_{A}$	0.3	-	1.0	-	-	-	0.6	mg/l	0.1	A-T-041w
Phenols - Total by HPLC (w)$_{A}$	<0.01	-	<0.01	<0.01	<0.01	-	-	mg/l	0.01	A-T-050w
Arsenic (dissolved)$_{A}^{\#}$	<1	-	-	1	4	<1	-	µg/l	1	A-T-025w
Boron (dissolved)$_{A}^{\#}$	200	-	-	119	102	228	-	µg/l	10	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	<0.2	-	-	<0.2	<0.2	<0.2	-	µg/l	0.2	A-T-025w
Copper (dissolved)$_{A}^{\#}$	<1	-	-	1	<1	2	-	µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	<1	-	-	<1	<1	2	-	µg/l	1	A-T-025w
Lead (dissolved)$_{A}^{\#}$	<1	-	-	7	<1	<1	-	µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	<0.1	-	-	<0.1	<0.1	<0.1	-	µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	3	-	-	11	2	9	-	µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	<1	-	-	<1	<1	1	-	µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	5	-	-	8	5	7	-	µg/l	1	A-T-025w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/1	20/04754/2	20/04754/3	20/04754/4	20/04754/5	20/04754/6	20/04754/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	(R)BH201	WS20-03	RBH1D	RBH2	BH305	RBH4	RBH4A			
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	3.39	-	7.32	<0.01	40.49	-	-	µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	0.12	-	0.22	0.02	0.34	-	-	µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	0.04	-	0.04	<0.01	0.24	-	-	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	0.02	-	0.03	<0.01	0.02	-	-	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	0.03	-	0.03	<0.01	0.02	-	-	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	0.16	-	0.20	0.02	0.15	-	-	µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	0.20	-	1.08	<0.01	4.26	-	-	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	<0.01	-	<0.01	<0.01	<0.01	-	-	µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	0.07	-	0.08	<0.01	77.20	-	-	µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	0.24	-	0.20	0.02	0.74	-	-	µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	0.14	-	0.17	0.02	0.11	-	-	µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	4.41	-	9.37	0.08	124	-	-	µg/l	0.01	A-T-019w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/1	20/04754/2	20/04754/3	20/04754/4	20/04754/5	20/04754/6	20/04754/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	(R)BH201	WS20-03	RBH1D	RBH2	BH305	RBH4	RBH4A			
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH CWG (w)										
Ali >C5-C6 $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 $(w)_A^{\#}$	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 $(w)_A^{\#}$	<5	<5	<5	<5	5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 $(w)_A^{\#}$	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 $(w)_A^{\#}$	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 $(w)_A^{\#}$	6	8	<5	5	6	<5	9	µg/l	5	A-T-055w
Total Aliphatics $(w)_A^{\#}$	6	8	<5	5	11	<5	9	µg/l	5	A-T-055w
Aro >C5-C7 $(w)_A^{\#}$	<1	<1	<1	<1	7	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 $(w)_A$	<5	<5	<5	<5	120	<5	6	µg/l	5	A-T-055w
Aro >C10-C12 $(w)_A^{\#}$	5	<5	<5	<5	787	<5	16	µg/l	5	A-T-055w
Aro >C12-C16 $(w)_A^{\#}$	16	5	34	6	689	<5	15	µg/l	5	A-T-055w
Aro >C16-C21 $(w)_A^{\#}$	11	11	17	6	251	9	16	µg/l	5	A-T-055w
Aro >C21-C35 $(w)_A^{\#}$	<10	<10	<10	<10	52	<10	<10	µg/l	10	A-T-055w
Total Aromatics $(w)_A$	40	23	59	21	1899	14	62	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) $(w)_A$	46	31	59	26	1911	14	71	µg/l	10	A-T-055w
BTEX - Benzene $(w)_A^{\#}$	<1	<1	<1	<1	7	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene $(w)_A^{\#}$	<1	<1	<1	<1	10	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene $(w)_A^{\#}$	<1	<1	<1	<1	2	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene $(w)_A^{\#}$	<1	<1	<1	<1	4	<1	<1	µg/l	1	A-T-022w
MTBE $(w)_A^{\#}$	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/8	20/04754/9	20/04754/10	20/04754/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS20-10	WS20-107	WS20-108						
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Hardness Total$_{A}^{\#}$	551	935	-	-				mg/l Ca CO3	2	A-T-049w
Ammoniacal nitrogen as N (w)$_{A}^{\#}$	0.46	0.31	-	-				mg/l	0.02	A-T-033w
Cyanide (free) (w)$_{A}^{\#}$	0.022	0.008	-	-				mg/l	0.005	A-T-042wFCN
Cyanide (total) (w)$_{A}^{\#}$	0.896	0.376	-	-				mg/l	0.005	A-T-042wTCN
Thiocyanate (w)$_{A}$	0.9	1.3	-	-				mg/l	0.1	A-T-041w
Phenols - Total by HPLC (w)$_{A}$	<0.01	<0.01	-	-				mg/l	0.01	A-T-050w
Arsenic (dissolved)$_{A}^{\#}$	<1	<1	-	-				µg/l	1	A-T-025w
Boron (dissolved)$_{A}^{\#}$	233	95	-	-				µg/l	10	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	<0.2	0.3	-	-				µg/l	0.2	A-T-025w
Copper (dissolved)$_{A}^{\#}$	7	4	-	-				µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	<1	4	-	-				µg/l	1	A-T-025w
Lead (dissolved)$_{A}^{\#}$	<1	<1	-	-				µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	<0.1	<0.1	-	-				µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	4	15	-	-				µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	14	22	-	-				µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	5	36	-	-				µg/l	1	A-T-025w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/8	20/04754/9	20/04754/10	20/04754/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS20-10	WS20-107	WS20-108						
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	0.02	0.04	-	-				µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	<0.01	0.02	-	-				µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	<0.01	0.03	-	-				µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	<0.01	0.06	-	-				µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	<0.01	0.04	-	-				µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	<0.01	0.04	-	-				µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	<0.01	0.01	-	-				µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	<0.01	0.02	-	-				µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	<0.01	0.06	-	-				µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	<0.01	<0.01	-	-				µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	0.01	0.19	-	-				µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	<0.01	0.02	-	-				µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	<0.01	0.02	-	-				µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	<0.01	<0.01	-	-				µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	<0.01	0.10	-	-				µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	0.01	0.18	-	-				µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	0.04	0.83	-	-				µg/l	0.01	A-T-019w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/8	20/04754/9	20/04754/10	20/04754/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS20-10	WS20-107	WS20-108						
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
SVOC (w)										
1,2,4-Trichlorobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
1,2-Dichlorobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
1,3-Dichlorobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
1,4-Dichlorobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,4,5-Trichlorophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,4,6-Trichlorophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,4-Dichlorophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,4-Dimethylphenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,4-Dinitrotoluene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2,6-Dinitrotoluene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2-Chloronaphthalene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2-Chlorophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2-Methylnaphthalene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2-Methylphenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
2-Nitrophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
4-Bromophenyl phenyl ether$_A$	-	-	<1	<1				µg/l	1	A-T-052w
4-Chloro-3-methylphenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether$_A$	-	-	<1	<1				µg/l	1	A-T-052w
3+4-Methylphenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
4-Nitrophenol$_A$	-	-	<10	<10				µg/l	1	A-T-052w
Acenaphthene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Acenaphthylene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Anthracene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethyl)ether$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate$_A$	-	-	<10	<10				µg/l	10	A-T-052w
Benzo(a)anthracene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Butylbenzyl phthalate$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Benzo(b)fluoranthene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Benzo(k)fluoranthene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Benzo(a)pyrene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Benzo(ghi)perylene$_A$	-	-	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 20/04754 **Client Project Name: Monckton**

Client Project Ref: 1015

Lab Sample ID	20/04754/8	20/04754/9	20/04754/10	20/04754/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS20-10	WS20-107	WS20-108						
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Carbazole$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Chrysene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Dibenzofuran$_A$	-	-	<1	<1				µg/l	1	A-T-052w
n-Dibutylphthalate$_A$	-	-	<1	<1				µg/l	1	A-T-052w
n-Dioctylphthalate$_A$	-	-	<10	<10				µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Diethyl phthalate$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Dimethyl phthalate$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Dibenzo(ah)anthracene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Fluorene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Fluoranthene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Hexachlorobutadiene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Hexachlorobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Pentachlorophenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Phenol$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Hexachloroethane$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Nitrobenzene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Naphthalene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Isophorone$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Hexachlorocyclopentadiene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Phenanthrene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Pyrene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Indeno(1,2,3-cd)pyrene$_A$	-	-	<1	<1				µg/l	1	A-T-052w
Perylene$_A$	-	-	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 20/04754

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04754/8	20/04754/9	20/04754/10	20/04754/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS20-10	WS20-107	WS20-108						
Depth to Top										
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH CWG (w)										
Ali >C5-C6 (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
Ali >C6-C8 (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
Ali >C8-C10 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Ali >C10-C12 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Ali >C12-C16 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Ali >C16-C21 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Ali >C21-C35 (w)$_A^{\#}$	<5	5	-	-				µg/l	5	A-T-055w
Total Aliphatics (w)$_A^{\#}$	<5	5	-	-				µg/l	5	A-T-055w
Aro >C5-C7 (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
Aro >C7-C8 (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
Aro >C8-C10 (w)$_A$	<5	<5	-	-				µg/l	5	A-T-055w
Aro >C10-C12 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Aro >C12-C16 (w)$_A^{\#}$	<5	<5	-	-				µg/l	5	A-T-055w
Aro >C16-C21 (w)$_A^{\#}$	<5	7	-	-				µg/l	5	A-T-055w
Aro >C21-C35 (w)$_A^{\#}$	<10	<10	-	-				µg/l	10	A-T-055w
Total Aromatics (w)$_A$	<10	<10	-	-				µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w)$_A$	<10	12	-	-				µg/l	10	A-T-055w
BTEX - Benzene (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
BTEX - Toluene (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
BTEX - m & p Xylene (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
BTEX - o Xylene (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w
MTBE (w)$_A^{\#}$	<1	<1	-	-				µg/l	1	A-T-022w

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04754

Date Received: 15/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 18.0

Clients Project No: 1015

Lab Sample ID	20/04754/1	20/04754/3	20/04754/4	20/04754/5	20/04754/6	20/04754/7	20/04754/8	20/04754/9
Client Sample No								
Client Sample ID/Depth	(R)BH201	RBH1D	RBH2	BH305	RBH4	RBH4A	WS9	WS20-10
Date Sampled	10/06/20	10/06/20	10/06/20	10/06/20	10/06/20	10/06/20	10/06/20	10/06/20
Deviation Code								
A7 (no HNO3)	✓		✓	✓	✓		✓	✓
A8 (no NaOH)	✓	✓				✓	✓	✓
A9 (no H2SO4)	✓		✓	✓	✓		✓	✓

Key

A7 (no HNO3) *No HNO3 preserved bottle provided (dissolved metals will be deviating)*

A8 (no NaOH) *No NaOH preserved bottle provided (cyanides, sulphide will be deviating)*

A9 (no H2SO4) *No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04677
Issue Number: 1 **Date:** 17 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 10/06/20
Date Instructions Received: 11/06/20
Date Analysis Completed: 17/06/20

Prepared by:

Sophie France
Client Service Manager

Approved by:

John Gustafson
Managing Director

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
% Stones >10mm$_A$	<0.1	<0.1	32.7	<0.1	1.6	5.4	3.4	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.23	5.59	8.39	6.27	-	7.77	-	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	-	0.05	-	-	0.10	-	g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	289	-	-	275	-	mg/kg	50	A-T-024s
Cyanide (free)$_A$$^{M\#}$	-	<1	-	<1	-	1	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	-	<1	-	<1	-	42	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5	-	<5	-	<5	-	mg/kg	5	A-T-041s
Total Organic Carbon$_D$$^{M\#}$	2.76	0.27	-	-	-	-	-	% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	16	-	4	<1	8	-	-	mg/kg	1	A-T-024s
Barium$_D$	210	-	77	555	262	-	-	mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	1.3	-	0.5	1.6	1.2	-	-	mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	0.5	-	<0.5	0.7	0.6	-	-	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	57	-	20	30	31	-	-	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	18	-	355	36	25	-	-	mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	137	-	15	18	65	-	-	mg/kg	1	A-T-024s
Mercury$_D$	0.22	-	0.50	<0.17	<0.17	-	-	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	21	-	198	52	30	-	-	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-	1	<1	<1	-	-	mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	28	-	14	31	28	-	-	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	104	-	34	90	101	-	-	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	Chrysotile	-	NAD	NAD	NAD	-	NAD			A-T-045
Asbestos Matrix (microscope)$_{D}$	Loose Fibres	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	-	N/A	N/A	N/A	-	N/A			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	<0.001	-	-	-	-	-	-	% w/w	0.001	A-T-054

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
SVOC										
Hexachlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	<500	-	-	-	955	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	<1000	-	-	-	<1000	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s

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Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
Fluoranthene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Phenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	<500	-	-	-	<500	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Perylene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s

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Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
VOC										
Dichlorodifluoromethane$_{A}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Chloromethane$_{A}$	-	<10	-	-	-	<10	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Dichloromethane$_{A}$	-	<5	-	-	-	<5	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	-	<5	-	-	-	<5	-	µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	-	<2	-	-	-	<2	-	µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	-	<10	-	-	-	<10	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	-	<3	-	-	-	<3	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
Chlorobenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	<2	-	-	-	<2	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	<2	-	-	-	<2	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	<3	-	-	-	<3	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	<1	-	-	-	<1	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	<3	-	-	-	<3	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/1	20/04677/2	20/04677/3	20/04677/4	20/04677/5	20/04677/6	20/04677/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP73	TP75	TP75	TP74	TP72	TP73	TP80			
Depth to Top	0.60	1.00	0.40	0.50	0.20	1.80	3.00			
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20	10-Jun-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	5A	6AE	5AE	5ABE	5A	4A			
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	1	<1	<1	<1	1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	2	<1	<1	<1	1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	4	<1	2	<1	2	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	11	<1	7	<1	25	<1	6	mg/kg	1	A-T-055s
Total Aliphatics$_A$	18	<1	10	<1	30	<1	6	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	4	<1	1	<1	3	<1	3	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	2	<1	<1	<1	2	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	7	<1	3	<1	6	<1	1	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	39	<1	12	<1	10	<1	1	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	179	<1	54	2	35	<1	6	mg/kg	1	A-T-055s
Total Aromatics$_A$	231	<1	72	2	56	<1	11	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	249	<1	83	2	86	<1	17	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/8	20/04677/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP77	TP77								
Depth to Top	1.50	0.50								
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20								
Sample Type	Soil	Soil								
Sample Matrix Code	5AB	6ABE								
% Stones >10mm$_A$	17.4	14.3						% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.01	-						pH	0.01	A-T-031s
Arsenic$_D$$^{M\#}$	-	30						mg/kg	1	A-T-024s
Barium$_D$	-	148						mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	-	1.1						mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	-	<0.5						mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	-	45						mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	-	23						mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	-	39						mg/kg	1	A-T-024s
Mercury$_D$	-	<0.17						mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	-	30						mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	-	<1						mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	-	29						mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	-	59						mg/kg	5	A-T-024s

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/8	20/04677/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP77	TP77								
Depth to Top	1.50	0.50								
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20								
Sample Type	Soil	Soil								
Sample Matrix Code	5AB	6ABE								
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	-	NAD								A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	-	N/A								A-T-045

Envirolab Job Number: 20/04677

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04677/8	20/04677/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP77	TP77								
Depth to Top	1.50	0.50								
Depth To Bottom										
Date Sampled	10-Jun-20	10-Jun-20								
Sample Type	Soil	Soil								
Sample Matrix Code	5AB	6ABE								
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	-						mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	-						mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	-						mg/kg	1	A-T-055s
Ali >C21-C35$_A$	10	-						mg/kg	1	A-T-055s
Total Aliphatics$_A$	14	-						mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	3	-						mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	2	-						mg/kg	1	A-T-055s
Aro >C12-C16$_A$	5	-						mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	7	-						mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	21	-						mg/kg	1	A-T-055s
Total Aromatics$_A$	36	-						mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	50	-						mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	-						mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04677

Date Received: 11/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 11.2

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04676
Issue Number: 1 **Date:** 19 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015.4
Date Samples Received: 10/06/20
Date Instructions Received: 12/06/20
Date Analysis Completed: 19/06/20

Prepared by:



Sophie France
Client Service Manager

Approved by:



John Gustafson
Managing Director

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
% Stones >10mm$_A$	22.5	<0.1	<0.1	<0.1	1.1	7.6	<0.1	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.45	6.71	-	-	7.78	7.73	-	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	-	1.04	-	-	-	-	g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	5330	-	-	-	-	mg/kg	50	A-T-024s
Cyanide (free)$_A$$^{M\#}$	-	1	-	-	10	<1	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	-	34	-	-	338	20	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5	-	-	<5	<5	-	mg/kg	5	A-T-041s
Total Organic Carbon$_D$$^{M\#}$	9.38	-	11	-	-	29	-	% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	8	-	-	22	36	-	-	mg/kg	1	A-T-024s
Barium$_D$	100	-	-	115	84	-	-	mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	0.7	-	-	0.9	0.6	-	-	mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	1.0	-	-	2.0	1.7	-	-	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	23	-	-	112	63	-	-	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	12	-	-	14	19	-	-	mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	43	-	-	64	40	-	-	mg/kg	1	A-T-024s
Mercury$_D$	<0.17	-	-	<0.17	5.02	-	-	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	18	-	-	23	21	-	-	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-	-	<1	<1	-	-	mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	19	-	-	26	21	-	-	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	60	-	-	45	69	-	-	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	-	Chrysotile	NAD	-	-	Chrysotile			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	Loose Fibres	-	-	-	Loose Fibres			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	-	N/A	N/A	-	-	N/A			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	-	-	<0.001	-	-	-	0.127	% w/w	0.001	A-T-054

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
Speciated PCB-WHO12										
PCB BZ 81$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 105$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 114$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 118$_A$$^{M\#}$	-	-	-	-	<0.007	<0.007	-	mg/kg	0.007	A-T-004s
PCB BZ 123$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 126$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 156$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 157$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 167$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 169$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 189$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 77$_A$	-	-	-	-	<0.005	<0.005	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12$_A$	-	-	-	-	<0.007	<0.007	-	mg/kg	0.005	A-T-004s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
SVOC										
Hexachlorobenzene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	1370000	-	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	18600	-	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	<50000	-	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	358000	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	1580000	-	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	67900	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	21600	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	14100	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	13700	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	17900	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
Fluoranthene$_A$	-	52900	-	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	786000	-	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	334000	-	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	38400	-	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	940000	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	<50000	-	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	-	<10000	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
VOC										
Dichlorodifluoromethane$_{A}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_{A}$	-	<10	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	-	2	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_{A}$	-	<5	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	-	<5	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	-	<2	-	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	-	15	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	-	<10	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	-	10	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	-	<3	-	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
Chlorobenzene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	26	-	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	45	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	40	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	2	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	2	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	68	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	171	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	2	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	7	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	<3	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	<3	-	-	-	-	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/1	20/04676/2	20/04676/3	20/04676/4	20/04676/5	20/04676/6	20/04676/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP65	TP61	TP53	TP52	TP51	TP50	TP69			
Depth to Top	0.50	1.20	0.50	0.40	0.50	1.50	0.70			
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	08-Jun-20	09-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AE	7	6AB	6AE	5A	6A	6A			
TPH CWG										
Ali >C5-C6$_A^{\#}$	-	<0.01	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	-	0.02	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	-	<50	-	-	-	13	19	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	-	<50	-	-	-	9	11	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	-	357	-	-	-	18	19	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	-	498	-	-	-	30	22	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	-	92	-	-	-	173	45	mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	947	-	-	-	243	115	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	-	0.02	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	-	0.02	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	-	62	-	-	-	9	11	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	-	4640	-	-	-	11	11	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	-	23900	-	-	-	79	47	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	-	4780	-	-	-	117	38	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	-	746	-	-	-	235	66	mg/kg	1	A-T-055s
Total Aromatics$_A$	-	34100	-	-	-	451	172	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	-	35100	-	-	-	694	287	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	-	0.02	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	-	0.02	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	-	0.10	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	-	0.17	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	-	0.22	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	-	<0.01	-	-	-	<0.05	<0.05	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
% Stones >10mm$_A$	8.6	<0.1	17.6	3.8				% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	-	-	7.84	-				pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	0.05	-	-				g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	336	-	-				mg/kg	50	A-T-024s
Arsenic$_D$$^{M\#}$	23	-	10	36				mg/kg	1	A-T-024s
Barium$_D$	139	-	168	71				mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	1.1	-	1.1	1.7				mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	2.5	-	1.2	1.5				mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	84	-	35	73				mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	22	-	21	17				mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	107	-	22	30				mg/kg	1	A-T-024s
Mercury$_D$	<0.17	-	<0.17	<0.17				mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	38	-	32	30				mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-	<1	<1				mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	27	-	20	32				mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	1040	-	63	54				mg/kg	5	A-T-024s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_D^{\#}$	NAD	-	-	NAD						A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	-	-	N/A						A-T-045

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
SVOC										
Hexachlorobenzene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	-	457	-				µg/kg	100	A-T-052s
Carbazole$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	-	<500	-				µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	-	<100	-				µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	-	<1000	-				µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	-	236	-				µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Acenaphthene$_A$	-	-	485	-				µg/kg	100	A-T-052s
Anthracene$_A$	-	-	113	-				µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	-	121	-				µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	-	203	-				µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	-	152	-				µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Chrysene$_A$	-	-	171	-				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
Fluoranthene$_A$	-	-	549	-				µg/kg	100	A-T-052s
Fluorene$_A$	-	-	280	-				µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Phenanthrene$_A$	-	-	754	-				µg/kg	100	A-T-052s
Pyrene$_A$	-	-	407	-				µg/kg	100	A-T-052s
Naphthalene$_A$	-	-	340	-				µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Phenol$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	-	<100	-				µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	-	<100	-				µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	-	<500	-				µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Isophorone$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	-	<100	-				µg/kg	100	A-T-052s
Perylene$_A$	-	-	<100	-				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
VOC										
Dichlorodifluoromethane$_A$	-	-	<1	-				µg/kg	1	A-T-006s
Chloromethane$_A$	-	-	<10	-				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Bromomethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Chloroethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Carbon Disulphide$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Dichloromethane$_A$	-	-	<5	-				µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Bromochloromethane$_A^{\#}$	-	-	<5	-				µg/kg	5	A-T-006s
Chloroform$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^{\#}$	-	-	<2	-				µg/kg	2	A-T-006s
Benzene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Trichloroethene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Dibromomethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Bromodichloromethane$_A^{\#}$	-	-	<10	-				µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Toluene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Tetrachloroethene$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Dibromochloromethane$_A^{\#}$	-	-	<3	-				µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
Chlorobenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	-	<1	-				µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	-	<2	-				µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	-	<1	-				µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	-	<2	-				µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	-	<3	-				µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	-	<1	-				µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	-	<3	-				µg/kg	3	A-T-006s

Envirolab Job Number: 20/04676

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04676/8	20/04676/9	20/04676/10	20/04676/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP59	TP67	TP56	TP60						
Depth to Top	0.50	1.20	0.70	0.50						
Depth To Bottom										
Date Sampled	09-Jun-20	09-Jun-20	09-Jun-20	09-Jun-20						
Sample Type	Soil	Solid	Soil	Soil						
Sample Matrix Code	5A	7	5AB	6AB						
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	15	<1	4	-				mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	9	<1	9	-				mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	16	1	18	-				mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	22	2	33	-				mg/kg	1	A-T-055s
Ali >C21-C35$_A$	75	3	290	-				mg/kg	1	A-T-055s
Total Aliphatics$_A$	134	7	353	-				mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	9	<1	2	-				mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	13	<1	8	-				mg/kg	1	A-T-055s
Aro >C12-C16$_A$	47	3	28	-				mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	49	3	21	-				mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	87	7	25	-				mg/kg	1	A-T-055s
Total Aromatics$_A$	204	13	83	-				mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	340	20	436	-				mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.01	<0.01	-				mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04676

Date Received: 12/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 12.5, 13.4

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04592
Issue Number: 1 **Date:** 25 June, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015.4
Date Samples Received: 05/06/20
Date Instructions Received: 15/06/20
Date Analysis Completed: 23/06/20

Prepared by:

Sophie France
Client Service Manager

Approved by:

Danielle Brierley
Client Manager

Envirolab Job Number: 20/04592

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04592/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sump									
Depth to Top										
Depth To Bottom										
Date Sampled	04-Jun-20									
Sample Type	Liquid - Product / Oil									
Sample Matrix Code	N/A									
Product (Oil) ID										
Product (Oil) ID (for FID characterisation)$_A$	Possible PAHs									A-T-007w
Carbon range$_A$	C12-21									A-T-007w
Product (Oil) Density$_A$	NDP								0.001	Gravimetric oil

Envirolab Job Number: 20/04592

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04592/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sump									
Depth to Top										
Depth To Bottom										
Date Sampled	04-Jun-20									
Sample Type	Liquid - Product / Oil									
Sample Matrix Code	N/A									
Product (Oil) SVOC										
2,4,5-Trichlorophenol$_A$	<25000							µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<25000							µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<25000							µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<25000							µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<25000							µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<25000							µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<25000							µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<25000							µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	208000							µg/kg	100	A-T-052s
2-Methylphenol$_A$	<25000							µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<25000							µg/kg	100	A-T-052s
4-Bromophenyl phenyl ether$_A$	<25000							µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<25000							µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<25000							µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<25000							µg/kg	100	A-T-052s
Acenaphthene$_A$	1440000							µg/kg	100	A-T-052s
Acenaphthylene$_A$	57700							µg/kg	100	A-T-052s
Anthracene$_A$	106000							µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	74100							µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	63200							µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	69200							µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	43300							µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	34300							µg/kg	100	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<25000							µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<25000							µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<25000							µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<125000							µg/kg	500	A-T-052s
Butylbenzyl phthalate$_A$	<25000							µg/kg	100	A-T-052s
Carbazole$_A$	46300							µg/kg	100	A-T-052s
Chrysene$_A$	62200							µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<25000							µg/kg	100	A-T-052s
Dibenzofuran$_A$	703000							µg/kg	100	A-T-052s

Envirolab Job Number: 20/04592

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04592/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sump									
Depth to Top										
Depth To Bottom										
Date Sampled	04-Jun-20									
Sample Type	Liquid - Product / Oil									
Sample Matrix Code	N/A									
Diethyl phthalate$_A$	<25000							µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<25000							µg/kg	100	A-T-052s
n-Dibutylphthalate$_A$	<25000							µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<125000							µg/kg	500	A-T-052s
Fluoranthene$_A$	193000							µg/kg	100	A-T-052s
Fluorene$_A$	975000							µg/kg	100	A-T-052s
Hexachlorobenzene$_A$	<25000							µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<25000							µg/kg	100	A-T-052s
Hexachloroethane$_A$	<25000							µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	40800							µg/kg	100	A-T-052s
Isophorone$_A$	<25000							µg/kg	100	A-T-052s
Naphthalene$_A$	370000							µg/kg	100	A-T-052s
Nitrobenzene$_A$	<25000							µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<25000							µg/kg	100	A-T-052s
Pentachlorophenol$_A$	<25000							µg/kg	100	A-T-052s
Perylene$_A$	<25000							µg/kg	100	A-T-052s
Phenanthrene$_A$	413000							µg/kg	100	A-T-052s
Phenol$_A$	<25000							µg/kg	100	A-T-052s
Pyrene$_A$	130000							µg/kg	100	A-T-052s

Envirolab Job Number: 20/04592

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04592/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sump									
Depth to Top										
Depth To Bottom										
Date Sampled	04-Jun-20									
Sample Type	Liquid - Product / Oil									
Sample Matrix Code	N/A									
Product (Oil) VOC										
Dichlorodifluoromethane (Freon/CFC-12)$_A$	<25							µg/kg	1	A-T-006s
Chloromethane$_A$	<250							µg/kg	10	A-T-006s
Vinyl Chloride$_A$	<25							µg/kg	1	A-T-006s
Bromomethane$_A$	<25							µg/kg	1	A-T-006s
Chloroethane$_A$	<25							µg/kg	1	A-T-006s
Trichlorofluoromethane (Freon/CFC-11)$_A$	<25							µg/kg	1	A-T-006s
1,1-Dichloroethene (1,1-DCE) (vinylidene chloride)$_A$	<25							µg/kg	1	A-T-006s
Carbon Disulphide$_A$	379							µg/kg	1	A-T-006s
Dichloromethane (methylene chloride) $_A$	<125							µg/kg	5	A-T-006s
trans 1,2-Dichloroethene (trans-1,2-DCE)$_A$	<25							µg/kg	1	A-T-006s
1,1-Dichloroethane (1,1-DCA)$_A$	<25							µg/kg	1	A-T-006s
cis 1,2-Dichloroethene (cis-1,2-DCE)$_A$	<25							µg/kg	1	A-T-006s
2,2-Dichloropropane$_A$	<25							µg/kg	1	A-T-006s
Bromochloromethane$_A$	<125							µg/kg	5	A-T-006s
Chloroform (Trichloromethane)$_A$	<25							µg/kg	1	A-T-006s
1,1,1-Trichloroethane (1,1,1-TCA)$_A$	<25							µg/kg	1	A-T-006s
1,1-Dichloropropene$_A$	<25							µg/kg	1	A-T-006s
Carbon Tetrachloride (Tetrachloromethane)$_A$	<25							µg/kg	1	A-T-006s
1,2-Dichloroethane (1,2-DCA)$_A$	<50							µg/kg	2	A-T-006s
Benzene$_A$	361							µg/kg	1	A-T-006s
Trichloroethene (TCE)$_A$	<25							µg/kg	1	A-T-006s
1,2-Dichloropropane$_A$	<25							µg/kg	1	A-T-006s
Dibromomethane$_A$	<25							µg/kg	1	A-T-006s
Bromodichloromethane$_A$	<250							µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A$	<25							µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A$	<25							µg/kg	1	A-T-006s
1,1,2-Trichloroethane (1,1,2-TCA)$_A$	<25							µg/kg	1	A-T-006s
1,3-Dichloropropane$_A$	<25							µg/kg	1	A-T-006s
Tetrachloroethene (PCE)$_A$	<25							µg/kg	1	A-T-006s
Dibromochloromethane$_A$	<75							µg/kg	3	A-T-006s
1,2-Dibromoethane (1,2-EDB; 1,2-Ethylene Dibromide)$_A$	<25							µg/kg	1	A-T-006s

Envirolab Job Number: 20/04592

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04592/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sump									
Depth to Top										
Depth To Bottom										
Date Sampled	04-Jun-20									
Sample Type	Liquid - Product / Oil									
Sample Matrix Code	N/A									
Chlorobenzene$_A$	<25							µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_A$	<25							µg/kg	1	A-T-006s
Ethylbenzene$_A$	90							µg/kg	1	A-T-006s
m & p Xylene$_A$	1530							µg/kg	1	A-T-006s
o-Xylene$_A$	628							µg/kg	1	A-T-006s
Styrene$_A$	85							µg/kg	1	A-T-006s
Bromoform (Tribromomethane)$_A$	<25							µg/kg	1	A-T-006s
Isopropylbenzene$_A$	<25							µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_A$	<25							µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_A$	<25							µg/kg	1	A-T-006s
Bromobenzene$_A$	<25							µg/kg	1	A-T-006s
n-Propylbenzene$_A$	<25							µg/kg	1	A-T-006s
2-Chlorotoluene$_A$	<25							µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_A$	457							µg/kg	1	A-T-006s
4-Chlorotoluene$_A$	<25							µg/kg	1	A-T-006s
tert-Butylbenzene$_A$	<50							µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_A$	1160							µg/kg	1	A-T-006s
sec-Butylbenzene$_A$	<25							µg/kg	1	A-T-006s
4-Isopropyltoluene$_A$	29							µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_A$	<25							µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_A$	<25							µg/kg	1	A-T-006s
n-Butylbenzene$_A$	<25							µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_A$	<25							µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane$_A$	<50							µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_A$	<75							µg/kg	3	A-T-006s
Hexachlorobutadiene$_A$	<25							µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_A$	<75							µg/kg	3	A-T-006s
Toluene$_A$	490							µg/kg	1	A-T-006s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04592

Date Received: 15/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 13.8

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04564
Issue Number: 1 **Date:** 18 June, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 09/06/20
Date Instructions Received: 09/06/20
Date Analysis Completed: 18/06/20

Prepared by:



Holly Neary-King
Administration & Client Services Supervisor

Approved by:



Richard Wong
Client Manager

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME
UKAS TESTING 1247

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
% Stones >10mm$_A$	<0.1	34.5	8.6	<0.1				% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	11.69	10.73	-	11.33				pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	-	-	0.03	-				g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	287	-				mg/kg	50	A-T-024s
Cyanide (free)$_A$$^{M\#}$	-	-	<1	-				mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	-	-	<1	-				mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	-	<5	-				mg/kg	5	A-T-041s
Arsenic$_D$$^{M\#}$	-	8	-	12				mg/kg	1	A-T-024s
Barium$_D$	-	92	-	142				mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	-	<0.5	-	0.6				mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	-	0.7	-	0.7				mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	-	72	-	78				mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	-	731	-	1210				mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	-	86	-	150				mg/kg	1	A-T-024s
Mercury$_D$	-	3.67	-	17.9				mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	-	29	-	22				mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	-	1	-	2				mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	-	81	-	117				mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	-	125	-	100				mg/kg	5	A-T-024s

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
SVOC										
Hexachlorobenzene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Dibenzofuran$_A$	2930000	-	-	2310000				µg/kg	100	A-T-052s
Carbazole$_A$	1530000	-	-	79400				µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<500000	-	-	<250000				µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2-Methylphenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	7610000	-	-	1500000				µg/kg	100	A-T-052s
Acenaphthylene$_A$	286000	-	-	<50000				µg/kg	100	A-T-052s
Acenaphthene$_A$	3980000	-	-	6020000				µg/kg	100	A-T-052s
Anthracene$_A$	>2090000	-	-	278000				µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	292000	-	-	<50000				µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	199000	-	-	<50000				µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	152000	-	-	<50000				µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Chrysene$_A$	311000	-	-	64700				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
Fluoranthene$_A$	877000	-	-	310000				µg/kg	100	A-T-052s
Fluorene$_A$	1930000	-	-	1820000				µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Phenanthrene$_A$	5240000	-	-	2180000				µg/kg	100	A-T-052s
Pyrene$_A$	646000	-	-	213000				µg/kg	100	A-T-052s
Naphthalene$_A$	2710000	-	-	429000				µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Phenol$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<500000	-	-	<250000				µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Nitrobenzene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Isophorone$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Hexachloroethane$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s
Perylene$_A$	<100000	-	-	<50000				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
VOC										
Dichlorodifluoromethane$_{A}$	<1	-	-	<1				µg/kg	1	A-T-006s
Chloromethane$_{A}$	<10	-	-	<10				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	22	-	-	17				µg/kg	1	A-T-006s
Dichloromethane$_{A}$	<5	-	-	<5				µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	<5	-	-	<5				µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	<2	-	-	<2				µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	14700	-	-	<1				µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	<10	-	-	<10				µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	4270	-	-	1720				µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	<3	-	-	<3				µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
Chlorobenzene$_{A}^{\#}$	4	-	-	<1				µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	<1	-	-	<1				µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	322	-	-	120				µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	2020	-	-	2260				µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	1970	-	-	829				µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	890	-	-	292				µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	13	-	-	5				µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	18	-	-	7				µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	773	-	-	241				µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	<2	-	-	<2				µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	1390	-	-	449				µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	13	-	-	4				µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	<2	-	-	<2				µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	<3	-	-	<3				µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	<1	-	-	<1				µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	<3	-	-	<3				µg/kg	3	A-T-006s

Envirolab Job Number: 20/04564

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04564/1	20/04564/2	20/04564/3	20/04564/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP42	TP49	TP48	TP45						
Depth to Top	1.00	0.50	1.30	0.30						
Depth To Bottom		1.00								
Date Sampled	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20						
Sample Type	Solid	Soil	Soil	Solid						
Sample Matrix Code	7	6ABE	6A	7						
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	<0.01	<0.01	<0.01				mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	0.55	<0.01	<0.01	0.30				mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1250	<20	<50	<100				mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1250	<20	152	<100				mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1250	<20	350	551				mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1250	28	107	982				mg/kg	1	A-T-055s
Ali >C21-C35$_A$	3690	307	<50	376				mg/kg	1	A-T-055s
Total Aliphatics$_A$	3690	335	609	1900				mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	74.9	0.04	0.03	19.4				mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	60.5	0.01	0.09	18.5				mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	1820	21	411	475				mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	26600	36	21200	3380				mg/kg	1	A-T-055s
Aro >C12-C16$_A$	71600	100	12100	63700				mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	41300	224	2290	22600				mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	12800	847	1070	2040				mg/kg	1	A-T-055s
Total Aromatics$_A$	154000	1230	37100	92200				mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	158000	1570	37700	94100				mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	74.9	0.04	0.03	19.4				mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	60.5	0.01	0.09	18.5				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	2.69	<0.01	0.09	0.62				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	45.8	0.02	1.41	12.6				mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	18.4	0.01	1.47	4.91				mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.01	<0.01	<0.01				mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04564

Date Received: 09/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 14.4

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 20/04560/1

Amendments: Request for project/sample information change

Envirolab Job Number: 20/04560
Issue Number: 2 **Date:** 13 July, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015
Date Samples Received: 09/06/20
Date Instructions Received: 09/06/20
Date Analysis Completed: 15/06/20

Prepared by:



Sophie France
Client Service Manager

Approved by:



Richard Wong
Client Manager

UKAS TESTING
1247

Envirolab Job Number: 20/04560

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04560/1	20/04560/2	20/04560/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Lineside Dyke N	Lineside Dyke S	Wakefield Beck N							
Depth to Top										
Depth To Bottom										
Date Sampled	08-Jun-20	08-Jun-20	08-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
Hardness Total$_{A}^{\#}$	621	857	363					mg/l Ca CO3	2	A-T-049w
Cyanide (total) (w)$_{A}^{\#}$	0.114	0.135	0.024					mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w)$_{A}$	0.23	0.33	<0.01					mg/l	0.01	A-T-050w
Arsenic (dissolved)$_{A}^{\#}$	5	8	<1					µg/l	1	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	0.2	1.9	0.6					µg/l	0.2	A-T-025w
Copper (dissolved)$_{A}^{\#}$	2	49	3					µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	<1	50	<1					µg/l	1	A-T-025w
Lead (dissolved)$_{A}^{\#}$	<1	<5	<1					µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	0.4	<0.5	<0.1					µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	28	273	92					µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	1	9	<1					µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	10	298	288					µg/l	1	A-T-025w

Envirolab Job Number: 20/04560

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04560/1	20/04560/2	20/04560/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Lineside Dyke N	Lineside Dyke S	Wakefield Beck N							
Depth to Top										
Depth To Bottom										
Date Sampled	08-Jun-20	08-Jun-20	08-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	96.1	415	0.06					µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	1.95	3.68	<0.01					µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	0.36	7.22	<0.01					µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	0.19	<0.10	<0.01					µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	<0.10	<0.10	<0.01					µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	0.33	<0.10	<0.01					µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	<0.10	<0.10	<0.01					µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	<0.10	<0.10	<0.01					µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	0.38	<0.10	<0.01					µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	<0.10	<0.10	<0.01					µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	0.40	2.86	<0.01					µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	12	90.9	<0.01					µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	<0.10	<0.10	<0.01					µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	567	2810	0.59					µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	3.57	38.7	<0.01					µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	0.20	1.52	<0.01					µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	682	3370	0.65					µg/l	0.01	A-T-019w

Envirolab Job Number: 20/04560

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04560/1	20/04560/2	20/04560/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Lineside Dyke N	Lineside Dyke S	Wakefield Beck N							
Depth to Top										
Depth To Bottom										
Date Sampled	08-Jun-20	08-Jun-20	08-Jun-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
TPH CWG (w)										
Ali >C5-C6 $(w)_A^{\#}$	5	<5	<1					µg/l	1	A-T-022w
Ali >C6-C8 $(w)_A^{\#}$	32	24	7					µg/l	1	A-T-022w
Ali >C8-C10 $(w)_A^{\#}$	7	<50	<5					µg/l	5	A-T-055w
Ali >C10-C12 $(w)_A^{\#}$	11	59	<5					µg/l	5	A-T-055w
Ali >C12-C16 $(w)_A^{\#}$	6	54	<5					µg/l	5	A-T-055w
Ali >C16-C21 $(w)_A^{\#}$	<5	<50	<5					µg/l	5	A-T-055w
Ali >C21-C35 $(w)_A^{\#}$	12	<50	<5					µg/l	5	A-T-055w
Total Aliphatics $(w)_A^{\#}$	74	137	7					µg/l	5	A-T-055w
Aro >C5-C7 $(w)_A^{\#}$	3710	2960	1					µg/l	1	A-T-022w
Aro >C7-C8 $(w)_A^{\#}$	15	830	<1					µg/l	1	A-T-022w
Aro >C8-C10 $(w)_A$	603	2240	<5					µg/l	5	A-T-055w
Aro >C10-C12 $(w)_A^{\#}$	2227	7770	<5					µg/l	5	A-T-055w
Aro >C12-C16 $(w)_A^{\#}$	1722	5130	<5					µg/l	5	A-T-055w
Aro >C16-C21 $(w)_A^{\#}$	168	426	5					µg/l	5	A-T-055w
Aro >C21-C35 $(w)_A^{\#}$	26	<100	12					µg/l	10	A-T-055w
Total Aromatics $(w)_A$	8470	19400	18					µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) $(w)_A$	8544	19500	25					µg/l	10	A-T-055w
BTEX - Benzene $(w)_A^{\#}$	3710	2960	1					µg/l	1	A-T-022w
BTEX - Toluene $(w)_A^{\#}$	15	830	<1					µg/l	1	A-T-022w
BTEX - Ethyl Benzene $(w)_A^{\#}$	9	23	<1					µg/l	1	A-T-022w
BTEX - m & p Xylene $(w)_A^{\#}$	33	296	1					µg/l	1	A-T-022w
BTEX - o Xylene $(w)_A^{\#}$	27	109	<1					µg/l	1	A-T-022w
MTBE $(w)_A^{\#}$	5	<5	<1					µg/l	1	A-T-022w

REPORT NOTES

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The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04560

Date Received: 09/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 14.4

Clients Project No: 1015

Lab Sample ID	20/04560/1	20/04560/2	20/04560/3
Client Sample No			
Client Sample ID/Depth	Lineside Dyke N	Lineside Dyke S	Wakefield Beck N
Date Sampled	08/06/20	08/06/20	08/06/20
Deviation Code			
A7 (no HNO3)	✓	✓	✓
A8 (no NaOH)	✓	✓	✓
A9 (no H2SO4)	✓	✓	✓

Key

A7 (no HNO3) *No HNO3 preserved bottle provided (dissolved metals will be deviating)*
A8 (no NaOH) *No NaOH preserved bottle provided (cyanides, sulphide will be deviating)*
A9 (no H2SO4) *No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04463
Issue Number: 1 **Date:** 16 June, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1075
Order No: 1015.3
Date Samples Received: 05/06/20
Date Instructions Received: 05/06/20
Date Analysis Completed: 16/06/20

Prepared by:



Holly Neary-King
Administration & Client Services Supervisor

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
% Stones >10mm$_A$	0.5	<0.1	<0.1	<0.1	7.6	<0.1	1.9	% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.40	8.22	6.47	12.56	-	10.24	-	pH	0.01	A-T-031s
Cyanide (free)$_A^{M\#}$	<1	3	-	-	-	5	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	6	3	-	-	-	333	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	<5	8	-	-	-	<5	-	mg/kg	5	A-T-041s
Arsenic$_D^{M\#}$	-	-	-	<1	-	18	<1	mg/kg	1	A-T-024s
Barium$_D$	-	-	-	329	-	231	35	mg/kg	1	A-T-024s
Beryllium$_D^{\#}$	-	-	-	3.5	-	1.1	0.7	mg/kg	0.5	A-T-024s
Cadmium$_D^{M\#}$	-	-	-	2.2	-	2.2	<0.5	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	-	-	-	104	-	239	15	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	-	-	-	6340	-	584	25	mg/kg	1	A-T-024s
Lead$_D^{M\#}$	-	-	-	46	-	133	16	mg/kg	1	A-T-024s
Mercury$_D$	-	-	-	1.04	-	24.9	0.31	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	-	-	-	90	-	39	22	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	-	-	-	9	-	2	<1	mg/kg	1	A-T-024s
Vanadium$_D^{M\#}$	-	-	-	492	-	103	20	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	-	-	-	107	-	219	32	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
Speciated PCB-WHO12										
PCB BZ 81$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 105$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 114$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 118$_A$$^{M\#}$	-	-	-	-	<0.007	-	-	mg/kg	0.007	A-T-004s
PCB BZ 123$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 126$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 156$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 157$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 167$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 169$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 189$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
PCB BZ 77$_A$	-	-	-	-	<0.005	-	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12$_A$	-	-	-	-	<0.007	-	-	mg/kg	0.005	A-T-004s

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Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
SVOC										
Hexachlorobenzene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	71500	13600	-	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	3150	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<500	<500	-	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<1000	<1000	-	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<100	9330	-	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	<100	10300	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<100	4330	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	62600	14200	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	4400	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	191000	19600	-	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	9240	1540	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	3710	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	2700	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	1470	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	2870	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	2730	<100	-	-	-	-	-	µg/kg	100	A-T-052s

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Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
Fluoranthene$_A$	10100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	101000	9430	-	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	1450	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	36500	6140	-	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	7030	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	62500	55500	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	<100	2720	-	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<500	<500	-	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	<100	<100	-	-	-	-	-	µg/kg	100	A-T-052s

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Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
VOC										
Dichlorodifluoromethane$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_{A}$	<10	<10	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	<1	3	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_{A}$	<5	<5	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	<5	<5	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	28	655	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	<10	<10	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	39	109	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s

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Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
Chlorobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	6	19	-	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	103	79	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	38	25	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	16	3	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	25	9	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	69	20	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s

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Lab Sample ID	20/04463/1	20/04463/2	20/04463/3	20/04463/4	20/04463/5	20/04463/6	20/04463/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05	TP28	TP32	TP29	TP27	TP25			
Depth to Top	7.00	13.00	1.00	0.50	0.50	1.00	1.50			
Depth To Bottom	8.00	14.00								
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20			
Sample Type	Soil	Soil	Soil	Solid	Soil	Solid	Soil			
Sample Matrix Code	4A	5A	5A	7	6AE	7	4A			
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	<0.01	0.17	0.06	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	<0.01	0.52	1.10	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<5	<1	<200	<200	<10	<10	<10	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<5	1	<200	584	<10	<10	<10	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	29	4	<200	950	37	26	<10	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	22	4	<200	448	109	111	12	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	29	1	724	383	76	1310	35	mg/kg	1	A-T-055s
Total Aliphatics$_A$	81	10	724	2370	222	1450	48	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	0.10	2.79	70.4	32.4	<0.01	<0.01	0.06	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	0.22	0.57	32.3	68.3	<0.01	<0.01	0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	20	14	1400	2820	21	17	13	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	377	104	36700	28500	70	62	92	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	1950	160	34800	38800	469	434	293	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	405	31	39000	30900	1590	2050	931	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	154	9	24600	24900	3260	4390	2760	mg/kg	1	A-T-055s
Total Aromatics$_A$	2910	318	137000	126000	5410	6940	4090	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	3000	328	138000	129000	5630	8390	4150	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	0.10	2.79	70.4	32.4	<0.01	<0.01	0.06	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	0.22	0.57	32.3	68.3	<0.01	<0.01	0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	0.04	0.11	0.77	5.11	<0.01	<0.01	0.02	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	0.63	0.48	17.9	63.4	0.01	<0.01	0.04	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	0.26	0.19	6.96	25.5	<0.01	<0.01	0.04	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

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Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1				% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	6.50	8.49	8.17	8.68				pH	0.01	A-T-031s
Cyanide (free)$_A$$^{M\#}$	-	8	-	-				mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	-	125	-	-				mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	9	-	-				mg/kg	5	A-T-041s
Total Organic Carbon$_D$$^{M\#}$	45.6	-	-	-				% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	14	31	-	3				mg/kg	1	A-T-024s
Barium$_D$	91	120	-	16				mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	0.8	1.1	-	<0.5				mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	0.7	1.4	-	0.7				mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	156	53	-	3				mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	17	20	-	3				mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	126	39	-	74				mg/kg	1	A-T-024s
Mercury$_D$	1.43	0.45	-	0.79				mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	23	34	-	1				mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	-	<1				mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	26	40	-	3				mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	167	114	-	36				mg/kg	5	A-T-024s

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	Amosite	Chrysotile	-	-						A-T-045
Asbestos Matrix (microscope)$_{D}$	Loose Fibres	Loose Fibres	-	-						A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	-	-						A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	<0.001	<0.001	-	-				% w/w	0.001	A-T-054

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
SVOC										
Hexachlorobenzene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	-	-	1950000				µg/kg	100	A-T-052s
Carbazole$_A$	-	-	-	691000				µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	-	-	<250000				µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	-	-	581000				µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	-	-	578000				µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	-	-	437000				µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	-	-	1950000				µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	-	-	1140000				µg/kg	100	A-T-052s
Acenaphthene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Anthracene$_A$	-	-	-	965000				µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	-	-	987000				µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	-	-	804000				µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	-	-	358000				µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	-	-	658000				µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	-	-	599000				µg/kg	100	A-T-052s
Chrysene$_A$	-	-	-	995000				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04463 **Client Project Name: Monckton**

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
Fluoranthene$_A$	-	-	-	1740000				µg/kg	100	A-T-052s
Fluorene$_A$	-	-	-	4810000				µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	-	-	649000				µg/kg	100	A-T-052s
Phenanthrene$_A$	-	-	-	> 4080000				µg/kg	100	A-T-052s
Pyrene$_A$	-	-	-	1490000				µg/kg	100	A-T-052s
Naphthalene$_A$	-	-	-	> 8530000				µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	-	-	145000				µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Phenol$_A$	-	-	-	1090000				µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	-	-	<250000				µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Isophorone$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	-	-	<50000				µg/kg	100	A-T-052s
Perylene$_A$	-	-	-	231000				µg/kg	100	A-T-052s

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
VOC										
Dichlorodifluoromethane$_{A}$	-	-	-	<5				µg/kg	1	A-T-006s
Chloromethane$_{A}$	-	-	-	<50				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	-	-	-	79				µg/kg	1	A-T-006s
Dichloromethane$_{A}$	-	-	-	<25				µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	-	-	-	<25				µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	-	-	-	<10				µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	-	-	-	113000				µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	-	-	-	66				µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	-	-	-	<50				µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	-	-	-	62100				µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	-	-	-	<15				µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s

Envirolab Job Number: 20/04463 **Client Project Name: Monckton**

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
Chlorobenzene$_{A}^{\#}$	-	-	-	54				µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	-	-	<5				µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	-	-	9030				µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	-	-	28300				µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	-	-	26000				µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	-	-	12500				µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	-	-	664				µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	-	-	992				µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	-	-	14700				µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	-	-	<10				µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	-	-	6910				µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	-	-	1370				µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	-	-	<5				µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	-	-	<10				µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	-	-	<15				µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	-	-	<5				µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	-	-	<15				µg/kg	3	A-T-006s

Envirolab Job Number: 20/04463

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04463/8	20/04463/9	20/04463/10	20/04463/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP28	TP23	TP33	TP26						
Depth to Top	0.50	1.00	1.10	1.00						
Depth To Bottom										
Date Sampled	03-Jun-20	03-Jun-20	03-Jun-20	03-Jun-20						
Sample Type	Soil	Soil	Solid	Solid						
Sample Matrix Code	6AB	6AB	7	7						
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	<0.01	<0.01	0.42				mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.01	<0.01	0.08	2.20				mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<20	1	<50	<500				mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<20	<1	<50	711				mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	59	5	139	882				mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	254	9	162	882				mg/kg	1	A-T-055s
Ali >C21-C35$_A$	158	9	118	3440				mg/kg	1	A-T-055s
Total Aliphatics$_A$	471	24	419	5910				mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	0.03	0.02	0.25	197				mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	0.02	0.01	2.20	185				mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	49	7	377	7180				mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	115	9	3470	109000				mg/kg	1	A-T-055s
Aro >C12-C16$_A$	489	26	17900	91700				mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	1470	68	4680	105000				mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	4240	262	1610	101000				mg/kg	1	A-T-055s
Total Aromatics$_A$	6370	371	28100	414000				mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	6840	395	28400	420000				mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	0.03	0.02	0.25	197				mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	0.02	0.01	2.20	185				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	0.84	5.99				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	0.02	<0.01	9.30	107				mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	0.01	<0.01	4.41	38.9				mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.10				mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04463

Date Received: 05/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 14.8

Clients Project No: 1075

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 20/04462/1

Amendments: Request for project/sample information change

Envirolab Job Number: 20/04462
Issue Number: 2 **Date:** 21 July, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1075
Order No: 1015.2
Date Samples Received: 05/06/20
Date Instructions Received: 05/06/20
Date Analysis Completed: 15/06/20

Prepared by:

Richard Wong
Client Manager

Approved by:

Holly Neary-King
Administration & Client Services Supervisor

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.93	11.45	8.31	7.91	7.11	-	4.88	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D^{M\#}$	-	-	-	-	0.19	-	-	g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	-	-	1700	-	-	mg/kg	50	A-T-024s
Cyanide (free)$_A^{M\#}$	-	-	<1	-	-	-	173	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	-	-	5	-	-	-	7880	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	-	<5	-	-	-	9	mg/kg	5	A-T-041s
Arsenic$_D^{M\#}$	-	-	-	-	19	-	22	mg/kg	1	A-T-024s
Barium$_D$	-	-	-	-	47	-	24	mg/kg	1	A-T-024s
Beryllium$_D^{\#}$	-	-	-	-	<0.5	-	<0.5	mg/kg	0.5	A-T-024s
Cadmium$_D^{M\#}$	-	-	-	-	0.6	-	<0.5	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	-	-	-	-	53	-	7	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	-	-	-	-	20	-	6	mg/kg	1	A-T-024s
Lead$_D^{M\#}$	-	-	-	-	365	-	23	mg/kg	1	A-T-024s
Mercury$_D$	-	-	-	-	12.7	-	0.36	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	-	-	-	-	15	-	<1	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	-	-	-	-	1	-	<1	mg/kg	1	A-T-024s
Vanadium$_D^{M\#}$	-	-	-	-	20	-	7	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	-	-	-	-	51	-	19	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	-	-	-	-	Amosite & Chrysotile	NAD	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	Loose Fibres & Board	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	-	-	-	-	No	N/A	-			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	-	-	-	-	0.017	-	-	% w/w	0.001	A-T-054

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
SVOC										
Hexachlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	-	278	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	-	<1000	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	-	361	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	-	1300	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	-	205	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	-	385	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	-	423	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	-	338	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	-	159	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	-	307	-	-	-	-	µg/kg	100	A-T-052s

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Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
Fluoranthene$_A$	-	-	728	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	-	659	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	-	171	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	-	602	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	-	590	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	-	1210	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s

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Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
VOC										
Dichlorodifluoromethane$_A$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_A$	-	-	<10	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	-	-	<5	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^\#$	-	-	<5	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^\#$	-	-	<2	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^\#$	-	-	<10	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^\#$	-	-	<3	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s

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Client Project Name: Monckton

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Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
Chlorobenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_A$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_A$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_A^\#$	-	-	<2	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_A$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_A$	-	-	<2	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_A$	-	-	<3	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_A^\#$	-	-	<1	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_A$	-	-	<3	-	-	-	-	µg/kg	3	A-T-006s

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Client Project Name: Monckton

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Lab Sample ID	20/04462/1	20/04462/2	20/04462/3	20/04462/4	20/04462/5	20/04462/6	20/04462/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-08	TP17	BH19-06	BH19-04	TP16	TP20	TP22			
Depth to Top	8.00	0.40	10.00	6.00	1.00	0.40	1.00			
Depth To Bottom	9.00		11.00	7.00						
Date Sampled	02-Jun-20	02-Jun-20	01-Jun-20	01-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20			
Sample Type	Soil	Solid	Soil	Soil	Soil	Soil	Solid			
Sample Matrix Code	4A	7	4AE	4A	4AB	4A	7			
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<5	-	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<5	-	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	71	-	2	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	<1	1	<1	380	-	3	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	<1	<1	38	<1	393	-	7	mg/kg	1	A-T-055s
Total Aliphatics$_A$	<1	<1	39	<1	845	-	13	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	2	<1	7	-	11	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	<1	<1	10	<1	18	-	110	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	<1	136	<1	134	-	191	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	<1	12	<1	737	-	534	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	<1	<1	15	<1	1320	-	331	mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	<1	176	<1	2210	-	1180	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	<1	<1	215	<1	3060	-	1190	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
% Stones >10mm$_A$	<0.1	<0.1						% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.73	8.36						pH	0.01	A-T-031s
Cyanide (free)$_A$$^{M\#}$	-	<1						mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	-	2						mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5						mg/kg	5	A-T-041s
Arsenic$_D$$^{M\#}$	28	-						mg/kg	1	A-T-024s
Barium$_D$	26	-						mg/kg	1	A-T-024s
Beryllium$_D$$^{\#}$	<0.5	-						mg/kg	0.5	A-T-024s
Cadmium$_D$$^{M\#}$	<0.5	-						mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	10	-						mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	14	-						mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	13	-						mg/kg	1	A-T-024s
Mercury$_D$	0.45	-						mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	15	-						mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-						mg/kg	1	A-T-024s
Vanadium$_D$$^{M\#}$	11	-						mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	33	-						mg/kg	5	A-T-024s

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
SVOC										
Hexachlorobenzene$_A$	-	<1000						µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	<1000						µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	<1000						µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	6960						µg/kg	100	A-T-052s
Carbazole$_A$	-	<1000						µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	<1000						µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	<5000						µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	<1000						µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	<1000						µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	<1000						µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	<1000						µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	<1000						µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	<1000						µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	<1000						µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	<1000						µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	<1000						µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	<1000						µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	<1000						µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	<1000						µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	<1000						µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	<1000						µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	<1000						µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	18000						µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	<1000						µg/kg	100	A-T-052s
Acenaphthene$_A$	-	13800						µg/kg	100	A-T-052s
Anthracene$_A$	-	<1000						µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	<1000						µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	<1000						µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	<1000						µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	<1000						µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	<1000						µg/kg	100	A-T-052s
Chrysene$_A$	-	<1000						µg/kg	100	A-T-052s

Envirolab Job Number: 20/04462 **Client Project Name: Monckton**

Client Project Ref: 1075

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
Fluoranthene$_A$	-	<1000						µg/kg	100	A-T-052s
Fluorene$_A$	-	3370						µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	<1000						µg/kg	100	A-T-052s
Phenanthrene$_A$	-	<1000						µg/kg	100	A-T-052s
Pyrene$_A$	-	<1000						µg/kg	100	A-T-052s
Naphthalene$_A$	-	82300						µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	<1000						µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	<1000						µg/kg	100	A-T-052s
Phenol$_A$	-	<1000						µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	<1000						µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	<1000						µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	<5000						µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	<1000						µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	<1000						µg/kg	100	A-T-052s
Isophorone$_A$	-	<1000						µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	<1000						µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	<1000						µg/kg	100	A-T-052s
Perylene$_A$	-	<1000						µg/kg	100	A-T-052s

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
VOC										
Dichlorodifluoromethane$_{A}$	-	<1						µg/kg	1	A-T-006s
Chloromethane$_{A}$	-	<10						µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Bromomethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Chloroethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Trichlorofluoromethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1-Dichloroethene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Carbon Disulphide$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Dichloromethane$_{A}$	-	<5						µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1-Dichloroethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
2,2-Dichloropropane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Bromochloromethane$_{A}^{\#}$	-	<5						µg/kg	5	A-T-006s
Chloroform$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1-Dichloropropene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Carbon Tetrachloride$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,2-Dichloroethane$_{A}^{\#}$	-	<2						µg/kg	2	A-T-006s
Benzene$_{A}^{\#}$	-	5						µg/kg	1	A-T-006s
Trichloroethene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,2-Dichloropropane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Dibromomethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Bromodichloromethane$_{A}^{\#}$	-	<10						µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Toluene$_{A}^{\#}$	-	2						µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,3-Dichloropropane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Tetrachloroethene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Dibromochloromethane$_{A}^{\#}$	-	<3						µg/kg	3	A-T-006s
1,2-Dibromoethane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
Chlorobenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	<1						µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	2						µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	40						µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	12						µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	<1						µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	35						µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	<2						µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	81						µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	4						µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	<1						µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	10						µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	<2						µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	<3						µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	<1						µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	<3						µg/kg	3	A-T-006s

Envirolab Job Number: 20/04462

Client Project Name: Monckton

Client Project Ref: 1075

Lab Sample ID	20/04462/8	20/04462/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP21	BH19-07								
Depth to Top	3.00									
Depth To Bottom										
Date Sampled	02-Jun-20	02-Jun-20								
Sample Type	Solid	Soil								
Sample Matrix Code	7	4A								
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.01	<0.01						mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	0.10	0.12						mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	16	6						mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	16	21						mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	404	25						mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	1270	2						mg/kg	1	A-T-055s
Ali >C21-C35$_A$	208	2						mg/kg	1	A-T-055s
Total Aliphatics$_A$	1910	57						mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	0.04	0.05						mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	0.05	0.07						mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	96	31						mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	120	219						mg/kg	1	A-T-055s
Aro >C12-C16$_A$	1100	544						mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	1350	179						mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	1890	138						mg/kg	1	A-T-055s
Total Aromatics$_A$	4550	1110						mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	6460	1170						mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	0.04	0.05						mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	0.05	0.07						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	4.21	0.04						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	0.53	0.75						mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	1.09	0.25						mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01						mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40℃).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25℃ / 11550µS/cm @ 20℃ fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04462

Date Received: 05/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 14.4

Clients Project No: 1075

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 20/04442/1

Amendments: Request for project/sample information change

Envirolab Job Number: 20/04442
Issue Number: 2 **Date:** 21 July, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 1015.1
Date Samples Received: 01/06/20
Date Instructions Received: 04/06/20
Date Analysis Completed: 11/06/20

Prepared by:

Richard Wong
Client Manager

Approved by:

Holly Neary-King
Administration & Client Services Supervisor

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
% Stones >10mm$_A$	<0.1	12.0	16.1	21.2	15.2	16.3	14.5	% w/w	0.1	A-T-044
pH$_D^{M\#}$	9.33	8.14	7.99	7.11	6.25	4.97	4.84	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D^{M\#}$	-	-	-	-	-	0.09	-	g/l	0.01	A-T-026s
Sulphur (total)$_D$	-	-	-	-	-	239	-	mg/kg	50	A-T-024s
Cyanide (free)$_A^{M\#}$	-	<1	-	2	-	-	38	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	-	160	-	499	-	-	7100	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5	-	8	-	-	<5	mg/kg	5	A-T-041s
Total Organic Carbon$_D^{M\#}$	-	-	0.34	-	4.02	0.43	-	% w/w	0.03	A-T-032s
Arsenic$_D^{M\#}$	3	17	-	25	-	-	20	mg/kg	1	A-T-024s
Barium$_D$	75	128	-	54	-	-	134	mg/kg	1	A-T-024s
Beryllium$_D^{\#}$	0.6	<0.5	-	<0.5	-	-	0.8	mg/kg	0.5	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	-	<1.0	-	-	<1.0	mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	0.5	0.5	-	2.1	-	-	2.6	mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	47	102	-	149	-	-	193	mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	14	17	-	31	-	-	107	mg/kg	1	A-T-024s
Lead$_D^{M\#}$	40	584	-	509	-	-	204	mg/kg	1	A-T-024s
Mercury$_D$	0.52	2.21	-	6.27	-	-	9.66	mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	14	21	-	23	-	-	61	mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	-	2	-	-	3	mg/kg	1	A-T-024s
Vanadium$_D^{M\#}$	21	18	-	9	-	-	21	mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	29	82	-	118	-	-	347	mg/kg	5	A-T-024s

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_D^{\#}$	-	-	NAD	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	-	-	N/A	-	-	-	-			A-T-045

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
SVOC										
Hexachlorobenzene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	127000	355000	-	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	9220	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<10000	<100000	-	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	261000	260000	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	21100	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	> 545000	411000	-	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	23000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	16200	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	13100	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	4910	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	9430	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	5020	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	17400	<20000	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
Fluoranthene$_A$	28800	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	301000	131000	-	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	5330	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	115000	27100	-	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	27300	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	82500	>2180000	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<10000	<100000	-	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<2000	<20000	-	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	2930	<20000	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
VOC										
Dichlorodifluoromethane$_A$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_A$	<10	<10	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^\#$	1	2	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	<5	<5	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^\#$	<5	<5	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_A^\#$	<1	2	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^\#$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_A^\#$	1290	61800	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^\#$	<1	5	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^\#$	<10	<10	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_A^\#$	292	47000	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^\#$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^\#$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
Chlorobenzene$_{A}^{\#}$	<1	8	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	175	425	-	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	1590	44500	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	653	23300	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	<1	1570	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	11	8	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	3	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	4	13	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	225	690	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	525	1520	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	2	12	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	6	18	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	<2	<2	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	<1	<1	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	<3	<3	-	-	-	-	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/04442

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/04442/1	20/04442/2	20/04442/3	20/04442/4	20/04442/5	20/04442/6	20/04442/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-07	TP15	TP9	TP11	TP13	TP10			
Depth to Top	0.50	0.50	0.20	0.50	0.30	1.20	0.20			
Depth To Bottom										
Date Sampled	27-May-20	28-May-20	28-May-20	29-May-20	29-May-20	29-May-20	27-May-20			
Sample Type	Solid	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	4ABE	4ABE	4ABE	1AB	1AB	4ABE			
TPH CWG										
Ali >C5-C6$_A^{\#}$	0.01	<0.10	-	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	0.26	2.51	-	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<50	128	-	<5	-	2	<10	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<50	154	-	<5	-	<1	<10	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	254	249	-	<5	-	<1	47	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	261	<100	-	5	-	<1	53	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	103	131	-	57	-	6	198	mg/kg	1	A-T-055s
Total Aliphatics$_A$	618	663	-	62	-	10	308	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	7.02	158	-	0.30	-	0.41	1.35	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	2.94	147	-	0.47	-	0.53	1.07	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	361	4950	-	6	-	3	23	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	4690	12500	-	6	-	2	114	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	19900	9230	-	32	-	5	872	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	5730	1570	-	259	-	7	2020	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	2980	1620	-	1360	-	21	4820	mg/kg	1	A-T-055s
Total Aromatics$_A$	33600	29800	-	1660	-	38	7840	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	34200	30500	-	1720	-	48	8150	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	7.02	158	-	0.30	-	0.41	1.35	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	2.94	147	-	0.47	-	0.53	1.07	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	2.28	9.05	-	<0.01	-	<0.01	0.02	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	16.2	114	-	0.17	-	0.19	0.31	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	7.44	86.9	-	0.05	-	0.05	0.08	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.10	-	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40℃).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25℃ / 11550µS/cm @ 20℃ fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/04442

Date Received: 04/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 16.8

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

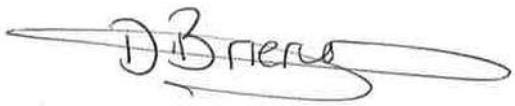
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/03816
Issue Number: 1 **Date:** 20 May, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson
Project Name: Monckton
Project Ref: 1015
Order No: 20/1015/2391/AW
Date Samples Received: 07/05/20
Date Instructions Received: 11/05/20
Date Analysis Completed: 20/05/20

Prepared by:



Danielle Brierley
Client Manager

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
% Stones >10mm$_A$	<0.1	<0.1	9.3	18.5	13.5	<0.1	20.8	% w/w	0.1	A-T-044
pH$_D$[M#]	11.71	-	6.89	-	7.27	-	-	pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$[M#]	-	-	770	-	430	-	-	mg/kg	200	A-T-028s
Sulphur (total)$_D$	-	-	632	-	179	-	-	mg/kg	50	A-T-024s
Cyanide (free)$_A$[M#]	-	1	-	<1	-	-	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$[M#]	-	23	-	<1	-	-	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5	-	<5	-	-	-	mg/kg	5	A-T-041s
Total Organic Carbon$_D$[M#]	-	-	5.90	-	0.91	-	-	% w/w	0.03	A-T-032s
Arsenic$_D$[M#]	-	13	-	<1	-	-	2	mg/kg	1	A-T-024s
Cadmium$_D$[M#]	-	0.7	-	<0.5	-	-	<0.5	mg/kg	0.5	A-T-024s
Copper$_D$[M#]	-	39	-	3	-	-	9	mg/kg	1	A-T-024s
Chromium$_D$[M#]	-	15	-	10	-	-	15	mg/kg	1	A-T-024s
Lead$_D$[M#]	-	470	-	5	-	-	10	mg/kg	1	A-T-024s
Mercury$_D$	-	0.57	-	0.35	-	-	0.24	mg/kg	0.17	A-T-024s
Nickel$_D$[M#]	-	25	-	10	-	-	18	mg/kg	1	A-T-024s
Selenium$_D$[M#]	-	<1	-	<1	-	-	<1	mg/kg	1	A-T-024s
Zinc$_D$[M#]	-	47	-	17	-	-	33	mg/kg	5	A-T-024s

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
SVOC										
Hexachlorobenzene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	1520000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	489000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	<500000	-	-	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	225000	-	-	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	233000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	194000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	1770000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	1000000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	2310000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	828000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	790000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	1720000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	604000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	971000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	471000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	1730000	-	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
Fluoranthene$_A$	1420000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	3240000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	577000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	1840000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	1220000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	1600000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	214000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	151000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	<500000	-	-	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	<100000	-	-	-	-	-	-	µg/kg	100	A-T-052s
Perylene$_A$	335000	-	-	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
VOC										
Dichlorodifluoromethane$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_A$	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^\#$	2	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^\#$	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^\#$	<7	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^\#$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_A^\#$	4890	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^\#$	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_A^\#$	2030	-	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^\#$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
Chlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_A^\#$	497	-	-	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_A^\#$	5740	-	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_A^\#$	2060	-	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_A^\#$	11400	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_A^\#$	70	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_A^\#$	93	-	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_A^\#$	1360	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_A^\#$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_A^\#$	1900	-	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_A^\#$	19	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_A$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_A$	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_A$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_A^\#$	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_A$	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/03816

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/03816/1	20/03816/2	20/03816/3	20/03816/4	20/03816/5	20/03816/6	20/03816/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-07C	WS20-07B	WS20-09A	WS20-09A	WS20-10	WS20-10	WS20-10			
Depth to Top	0.20	0.40	0.80	0.30	1.40	2.80	0.30			
Depth To Bottom										
Date Sampled	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20	05-May-20			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	7	7	4A	1A	4ABE	3A	4AB			
TPH CWG										
Ali >C5-C6$_A^{\#}$	0.04	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	1.16	-	0.15	-	-	0.01	-	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<100	-	2	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	252	-	2	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	308	-	4	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	226	-	3	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	472	-	15	-	-	<1	-	mg/kg	1	A-T-055s
Total Aliphatics$_A$	1260	-	25	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	74.3	-	15.7	-	-	0.04	-	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	70	-	12.7	-	-	0.02	-	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	1740	-	3	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	19700	-	4	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	23600	-	17	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	22000	-	39	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	19100	-	69	-	-	2	-	mg/kg	1	A-T-055s
Total Aromatics$_A$	86100	-	160	-	-	2	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	87400	-	185	-	-	2	-	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	74.3	-	15.7	-	-	0.04	-	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	70	-	12.7	-	-	0.02	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	3.21	-	0.58	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	41.6	-	4.79	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	22.4	-	1.90	-	-	<0.01	-	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/03816

Date Received: 11/05/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 14.5

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/03745
Issue Number: 1 **Date:** 19 May, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson
Project Name: Manckton
Project Ref: 1015
Order No: 20/1015/2390/AW
Date Samples Received: 05/05/20
Date Instructions Received: 06/05/20
Date Analysis Completed: 19/05/20

Prepared by:

Michael Knight
Operations Manager

Approved by:

John Gustafson
Managing Director

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
% Stones >10mm$_A$	13.1	20.5	22.0	<0.1	6.8	<0.1	26.8	% w/w	0.1	A-T-044
pH$_D$[M#]	7.91	7.89	-	7.27	-	5.15	7.92	pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$[M#]	3400	13000	-	1200	-	2000	3200	mg/kg	200	A-T-028s
Sulphur (total)$_D$	1690	4640	-	981	-	652	1650	mg/kg	50	A-T-024s
Cyanide (free)$_A$[M#]	-	<1	<1	-	-	-	-	mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$[M#]	-	<1	<1	-	-	-	-	mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	-	<5	<5	-	-	-	-	mg/kg	5	A-T-041s
Total Organic Carbon$_D$[M#]	-	-	-	0.49	-	0.98	-	% w/w	0.03	A-T-032s
Arsenic$_D$[M#]	10	21	7	-	21	-	9	mg/kg	1	A-T-024s
Cadmium$_D$[M#]	0.5	0.6	<0.5	-	<0.5	-	<0.5	mg/kg	0.5	A-T-024s
Copper$_D$[M#]	30	37	14	-	121	-	34	mg/kg	1	A-T-024s
Chromium$_D$[M#]	23	19	8	-	12	-	18	mg/kg	1	A-T-024s
Lead$_D$[M#]	27	39	9	-	23	-	71	mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	-	<0.17	-	0.20	mg/kg	0.17	A-T-024s
Nickel$_D$[M#]	31	28	9	-	16	-	17	mg/kg	1	A-T-024s
Selenium$_D$[M#]	<1	2	2	-	2	-	<1	mg/kg	1	A-T-024s
Zinc$_D$[M#]	112	71	54	-	21	-	48	mg/kg	5	A-T-024s

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
SVOC										
Hexachlorobenzene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	-	361	-	195	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	-	<500	-	<500	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	-	783	-	189	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	-	145	-	<100	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	-	232	-	<100	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	-	769	-	<100	-	-	µg/kg	100	A-T-052s
Benzo(b)fluoranthene$_A$	-	-	589	-	<100	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	-	207	-	<100	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	-	624	-	<100	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	-	380	-	<100	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	-	575	-	119	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/03745 **Client Project Name: Manckton**

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
Fluoranthene$_A$	-	-	1080	-	130	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	-	176	-	<100	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	-	338	-	<100	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	-	887	-	423	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	-	908	-	121	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	-	312	-	101	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	-	185	-	<100	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Phenol$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC)$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	-	<500	-	<500	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene$_A$	-	-	<100	-	<100	-	-	µg/kg	100	A-T-052s
Perylene$_A$	-	-	117	-	<100	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
VOC										
Dichlorodifluoromethane$_A$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Chloromethane$_A$	-	-	<10	-	<10	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Bromomethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Chloroethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	-	-	<5	-	<5	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^{\#}$	-	-	<5	-	<5	-	-	µg/kg	5	A-T-006s
Chloroform$_A^{\#}$	-	-	<3	-	<3	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^{\#}$	-	-	NDP	-	NDP	-	-		1	A-T-006s
1,2-Dichloroethane$_A^{\#}$	-	-	<2	-	<2	-	-	µg/kg	2	A-T-006s
Benzene$_A^{\#}$	-	-	7	-	<1	-	-	µg/kg	1	A-T-006s
Trichloroethene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Dibromomethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^{\#}$	-	-	<10	-	<10	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Toluene$_A^{\#}$	-	-	3	-	<1	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^{\#}$	-	-	<3	-	<3	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 20/03745 **Client Project Name: Manckton**

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
Chlorobenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	-	2	-	<1	-	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	-	*<1*	-	*<1*	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	-	*<2*	-	*<2*	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	-	<2	-	<2	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	-	<3	-	<3	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	-	<1	-	<1	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	-	<3	-	<3	-	-	µg/kg	3	A-T-006s

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/1	20/03745/2	20/03745/3	20/03745/4	20/03745/5	20/03745/6	20/03745/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-01	WS20-02B	WS20-03	WS20-03	WS20-04	WS20-04	WS20-05C			
Depth to Top	0.80	1.10	0.80	3.30	0.25	2.20	0.30			
Depth To Bottom										
Date Sampled	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20	04-May-20			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	6AB	4AB	4A	5A	4AB	6A	4AB			
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	<0.05	0.06	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	<0.05	<0.05	0.17	-	0.12	-	<0.05	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	3	10	-	22	-	2	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	2	7	-	10	-	2	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	1	5	17	-	19	-	24	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	9	21	-	14	-	65	mg/kg	1	A-T-055s
Ali >C21-C35$_A$	4	27	62	-	14	-	78	mg/kg	1	A-T-055s
Total Aliphatics$_A$	7	45	116	-	78	-	171	mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	<0.05	0.14	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	<0.05	0.07	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	2	5	11	-	14	-	2	mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	1	4	9	-	9	-	4	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	4	13	30	-	26	-	35	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	3	11	27	-	30	-	178	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	5	18	68	-	30	-	461	mg/kg	1	A-T-055s
Total Aromatics$_A$	15	52	145	-	110	-	681	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	23	97	261	-	188	-	852	mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	<0.05	0.14	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	<0.05	0.07	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	<0.05	0.06	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/8	20/03745/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-06B	WS20-06B								
Depth to Top	0.20	1.30								
Depth To Bottom										
Date Sampled	04-May-20	04-May-20								
Sample Type	Soil	Soil								
Sample Matrix Code	4A	4AB								
% Stones >10mm$_A$	9.2	2.8						% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	-	7.66						pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	-	1500						mg/kg	200	A-T-028s
Sulphur (total)$_D$	-	1230						mg/kg	50	A-T-024s
Cyanide (free)$_A$$^{M\#}$	<1	-						mg/kg	1	A-T-042sFCN
Cyanide (total)$_A$$^{M\#}$	9	-						mg/kg	1	A-T-042sTCN
Thiocyanate$_A$	<5	-						mg/kg	5	A-T-041s
Total Organic Carbon$_D$$^{M\#}$	-	9.89						% w/w	0.03	A-T-032s
Arsenic$_D$$^{M\#}$	5	-						mg/kg	1	A-T-024s
Cadmium$_D$$^{M\#}$	<0.5	-						mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	15	-						mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	14	-						mg/kg	1	A-T-024s
Lead$_D$$^{M\#}$	8	-						mg/kg	1	A-T-024s
Mercury$_D$	<0.17	-						mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	11	-						mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-						mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	25	-						mg/kg	5	A-T-024s

Envirolab Job Number: 20/03745

Client Project Name: Manckton

Client Project Ref: 1015

Lab Sample ID	20/03745/8	20/03745/9						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20-06B	WS20-06B								
Depth to Top	0.20	1.30								
Depth To Bottom										
Date Sampled	04-May-20	04-May-20								
Sample Type	Soil	Soil								
Sample Matrix Code	4A	4AB								
TPH CWG										
Ali >C5-C6$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
Ali >C6-C8$_A^{\#}$	0.19	-						mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	6	-						mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	5	-						mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	15	-						mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	15	-						mg/kg	1	A-T-055s
Ali >C21-C35$_A$	42	-						mg/kg	1	A-T-055s
Total Aliphatics$_A$	85	-						mg/kg	1	A-T-055s
Aro >C5-C7$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	5	-						mg/kg	1	A-T-055s
Aro >C10-C12$_A^{M\#}$	6	-						mg/kg	1	A-T-055s
Aro >C12-C16$_A$	33	-						mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	50	-						mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	140	-						mg/kg	1	A-T-055s
Total Aromatics$_A$	234	-						mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)$_A$	318	-						mg/kg	1	A-T-055s
BTEX - Benzene$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	-						mg/kg	0.01	A-T-022s

REPORT NOTES

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/03745

Date Received: 06/05/2020 (am)

Project: Manckton

Cool Box Temperatures (°C): 14.2

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/05711
Issue Number: 1 **Date:** 20 July, 2020

Client:
Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson/Sebastian Gledhill
Project Name: Monckton
Project Ref: 1015
Order No: 20/1015/2391/AW
Date Samples Received: 14/07/20
Date Instructions Received: 15/07/20
Date Analysis Completed: 20/07/20

Prepared by:



Richard Wong
Client Manager

Approved by:



John Gustafson
Managing Director

UKAS TESTING
1247

Envirolab Job Number: 20/05711

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/05711/1	20/05711/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Line Side 3	Line Side 4								
Depth to Top										
Depth To Bottom										
Date Sampled	14-Jul-20	14-Jul-20								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
Hardness Total$_{A}^{\#}$	487	559						mg/l Ca CO3	2	A-T-049w
Cyanide (total) (w)$_{A}^{\#}$	0.038	0.162						mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w)$_{A}$	0.01	0.92						mg/l	0.01	A-T-050w
Arsenic (dissolved)$_{A}^{\#}$	<1	4						µg/l	1	A-T-025w
Boron (dissolved)$_{A}^{\#}$	128	176						µg/l	10	A-T-025w
Cadmium (dissolved)$_{A}^{\#}$	0.4	<0.2						µg/l	0.2	A-T-025w
Copper (dissolved)$_{A}^{\#}$	9	6						µg/l	1	A-T-025w
Chromium (dissolved)$_{A}^{\#}$	4	<1						µg/l	1	A-T-025w
Lead (dissolved)$_{A}^{\#}$	<1	<1						µg/l	1	A-T-025w
Mercury (dissolved)$_{A}^{\#}$	<0.1	<0.1						µg/l	0.1	A-T-025w
Nickel (dissolved)$_{A}^{\#}$	37	25						µg/l	1	A-T-025w
Selenium (dissolved)$_{A}^{\#}$	1	1						µg/l	1	A-T-025w
Zinc (dissolved)$_{A}^{\#}$	47	3						µg/l	1	A-T-025w

Envirolab Job Number: 20/05711

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/05711/1	20/05711/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Line Side 3	Line Side 4								
Depth to Top										
Depth To Bottom										
Date Sampled	14-Jul-20	14-Jul-20								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
PAH 16MS (w)										
Acenaphthene $(w)_A^{\#}$	121	99.8						µg/l	0.01	A-T-019w
Acenaphthylene $(w)_A^{\#}$	1.87	1.98						µg/l	0.01	A-T-019w
Anthracene $(w)_A^{\#}$	8.08	0.36						µg/l	0.01	A-T-019w
Benzo(a)anthracene $(w)_A^{\#}$	0.64	0.01						µg/l	0.01	A-T-019w
Benzo(a)pyrene $(w)_A^{\#}$	0.23	<0.01						µg/l	0.01	A-T-019w
Benzo(b)fluoranthene $(w)_A^{\#}$	0.34	0.01						µg/l	0.01	A-T-019w
Benzo(ghi)perylene $(w)_A^{\#}$	0.07	<0.01						µg/l	0.01	A-T-019w
Benzo(k)fluoranthene $(w)_A^{\#}$	0.11	<0.01						µg/l	0.01	A-T-019w
Chrysene $(w)_A^{\#}$	0.56	0.02						µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene $(w)_A^{\#}$	0.02	<0.01						µg/l	0.01	A-T-019w
Fluoranthene $(w)_A^{\#}$	5.06	0.23						µg/l	0.01	A-T-019w
Fluorene $(w)_A^{\#}$	74.4	13.6						µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene $(w)_A^{\#}$	0.12	<0.01						µg/l	0.01	A-T-019w
Naphthalene $(w)_A^{\#}$	45.3	274						µg/l	0.01	A-T-019w
Phenanthrene $(w)_A^{\#}$	30.42	3.32						µg/l	0.01	A-T-019w
Pyrene $(w)_A^{\#}$	2.86	0.13						µg/l	0.01	A-T-019w
Total PAH 16MS $(w)_A^{\#}$	291	393						µg/l	0.01	A-T-019w

Envirolab Job Number: 20/05711

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/05711/1	20/05711/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Line Side 3	Line Side 4								
Depth to Top										
Depth To Bottom										
Date Sampled	14-Jul-20	14-Jul-20								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
TPH CWG (w)										
Ali >C5-C6 $(w)_A^{\#}$	<1	<1						µg/l	1	A-T-022w
Ali >C6-C8 $(w)_A^{\#}$	1	8						µg/l	1	A-T-022w
Ali >C8-C10 $(w)_A^{\#}$	<5	<5						µg/l	5	A-T-055w
Ali >C10-C12 $(w)_A^{\#}$	<5	6						µg/l	5	A-T-055w
Ali >C12-C16 $(w)_A^{\#}$	8	<5						µg/l	5	A-T-055w
Ali >C16-C21 $(w)_A^{\#}$	<5	<5						µg/l	5	A-T-055w
Ali >C21-C35 $(w)_A^{\#}$	<5	<5						µg/l	5	A-T-055w
Total Aliphatics $(w)_A^{\#}$	8	6						µg/l	5	A-T-055w
Aro >C5-C7 $(w)_A^{\#}$	215	5695						µg/l	1	A-T-022w
Aro >C7-C8 $(w)_A^{\#}$	23	21						µg/l	1	A-T-022w
Aro >C8-C10 $(w)_A$	224	483						µg/l	5	A-T-055w
Aro >C10-C12 $(w)_A^{\#}$	283	1267						µg/l	5	A-T-055w
Aro >C12-C16 $(w)_A^{\#}$	1531	1258						µg/l	5	A-T-055w
Aro >C16-C21 $(w)_A^{\#}$	353	97						µg/l	5	A-T-055w
Aro >C21-C35 $(w)_A^{\#}$	61	20						µg/l	10	A-T-055w
Total Aromatics $(w)_A$	2453	3126						µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) $(w)_A$	2460	3132						µg/l	10	A-T-055w
BTEX - Benzene $(w)_A^{\#}$	215	5695						µg/l	1	A-T-022w
BTEX - Toluene $(w)_A^{\#}$	23	21						µg/l	1	A-T-022w
BTEX - Ethyl Benzene $(w)_A^{\#}$	3	9						µg/l	1	A-T-022w
BTEX - m & p Xylene $(w)_A^{\#}$	25	43						µg/l	1	A-T-022w
BTEX - o Xylene $(w)_A^{\#}$	9	29						µg/l	1	A-T-022w
MTBE $(w)_A^{\#}$	<1	<1						µg/l	1	A-T-022w

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Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
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Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 20/05711

Date Received: 15/07/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 10.7

Clients Project No: 1015

Lab Sample ID	20/05711/1	20/05711/2
Client Sample No		
Client Sample ID/Depth	Line Side 3	Line Side 4
Date Sampled	14/07/20	14/07/20
Deviation Code		
A7 (no HNO3)	✓	✓
A8 (no NaOH)	✓	✓
A9 (no H2SO4)	✓	✓

Key

A7 (no HNO3) *No HNO3 preserved bottle provided (dissolved metals will be deviating)*

A8 (no NaOH) *No NaOH preserved bottle provided (cyanides, sulphide will be deviating)*

A9 (no H2SO4) *No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

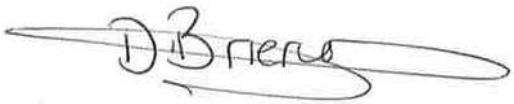
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/05208
Issue Number: 1 **Date:** 06 July, 2020

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Adam Wilson/Ben Wilson/Sebastian Gledhill
Project Name: Monckton
Project Ref: 1015
Order No: 20/1015/2391/AW
Date Samples Received: 29/06/20
Date Instructions Received: 30/06/20
Date Analysis Completed: 06/07/20

Prepared by:



Danielle Brierley
Client Manager

Approved by:



Richard Wong
Client Manager

UKAS TESTING
1247

Envirolab Job Number: 20/05208

Client Project Name: Monckton

Client Project Ref: 1015

Lab Sample ID	20/05208/1	20/05208/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH19-02	BH19-05								
Depth to Top										
Depth To Bottom										
Date Sampled	29-Jun-20	29-Jun-20								
Sample Type	Water - EW	Water - EW								
Sample Matrix Code	N/A	N/A								
PAH 16MS (w)										
Acenaphthene (w)$_A^{\#}$	3080	1670						µg/l	0.01	A-T-019w
Acenaphthylene (w)$_A^{\#}$	32.9	37.6						µg/l	0.01	A-T-019w
Anthracene (w)$_A^{\#}$	43.3	13.8						µg/l	0.01	A-T-019w
Benzo(a)anthracene (w)$_A^{\#}$	7.01	0.64						µg/l	0.01	A-T-019w
Benzo(a)pyrene (w)$_A^{\#}$	4.22	0.24						µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w)$_A^{\#}$	4.83	0.30						µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w)$_A^{\#}$	1.35	<0.10						µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w)$_A^{\#}$	1.78	0.12						µg/l	0.01	A-T-019w
Chrysene (w)$_A^{\#}$	5.80	0.56						µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w)$_A^{\#}$	0.42	<0.10						µg/l	0.01	A-T-019w
Fluoranthene (w)$_A^{\#}$	25	5.95						µg/l	0.01	A-T-019w
Fluorene (w)$_A^{\#}$	794	435						µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w)$_A^{\#}$	2.17	0.13						µg/l	0.01	A-T-019w
Naphthalene (w)$_A^{\#}$	>11100	8870						µg/l	0.01	A-T-019w
Phenanthrene (w)$_A^{\#}$	295	79.5						µg/l	0.01	A-T-019w
Pyrene (w)$_A^{\#}$	16.4	3.42						µg/l	0.01	A-T-019w
Total PAH 16MS (w)$_A^{\#}$	4310	11100						µg/l	0.01	A-T-019w

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Project No: 20/05208

Date Received: 30/06/2020 (am)

Project: Monckton

Cool Box Temperatures (°C): 16.8

Clients Project No: 1015

NO DEVIATIONS IDENTIFIED

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