

Photograph 7 – Ashton Canal towpath to the south of the site.



Photograph 8 – Visual evidence of contamination in TP01.



Photograph 9 – Concrete slab encountered in TP02 at 1.8m bgl.



Photograph 10 – Existing brick wall from partially demolished methodist chapel.



Photograph 11 – Oily coating on soil obtained from HP11 adjacent to the tank.



Photograph 12 – Waste and tree root in the location of HP12.



Photograph 13 – Entrance to Brunswick Mill courtyard.



Photograph 14 – 6F2 stockpile in the south.

APPENDIX 3 - Exploratory Hole Logs

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 02/05/2023 - 04/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385811.00 N398699.70
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP+RC	53.91m AoD	JR	1:25	Sheet 1 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	ES								MADE GROUND: Brown very gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic and glass.
		0.50	D								
		0.50	ES								
		1.00	ES								
		1.20 - 1.65	D				(22)				
		2.00	D				N=50 (25 for 20mm/ 50 for 10mm)				
		2.00 - 2.45	ES								
		3.00	D					3.00	50.91		
		3.00 - 3.45	ES								MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, sandstone and shale.
		4.00	ES					4.00	49.91		
		4.00 - 4.45	U								Firm high strength brown slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale.
		4.50	D								
		5.00 - 5.45	D				(15)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. SPT refusals encountered at 2.0m, 12.5m, 14.0m, 16.5m and 17.65m bgl. 5. Cable percussion drilling terminated at 18.0m bgl. Rotary core follow on to 24.0m bgl. 7. Monitoring standpipe installed to 24.0m bgl (18.0m plain, 6.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 02/05/2023 - 04/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385811.00 N398699.70
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP+RC	53.91m AoD	JR	1:25	Sheet 2 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											Firm high strength brown slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale.
		6.50 - 6.95	U								
		7.00	D								*Becoming very sandy from 7.0m to 8.0m bgl.*
		8.00 - 8.45	D				(26)				*Becoming stiff at 8.0m bgl.*
		9.50 - 9.95	U								
		10.00	D								

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. SPT refusals encountered at 2.0m, 12.5m, 14.0m, 16.5m and 17.65m bgl. 5. Cable percussion drilling terminated at 18.0m bgl. Rotary core follow on to 24.0m bgl. 7. Monitoring standpipe installed to 24.0m bgl (18.0m plain, 6.0m slotted).

Rotary Core Log

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Location: MANCHESTER	Contractor:	Co-ords: E385811.00 N398699.70
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP+RC	53.91m AoD	JR	1:25	Sheet 3 of 5

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		11.00 - 11.45	D				(42)				Firm high strength brown slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale.
											Becoming gravelly at 12.0m bgl.
		12.50 - 12.95	D				N=50 (25 for 70mm/ 50 for 20mm)				
								13.00	40.91		Very dense brown sandy silty slightly clayey angular to subrounded fine to coarse GRAVEL of sandstone. Sand is medium to coarse.
		14.00 - 14.45	D				N=50 (25 for 20mm/ 50 for 30mm)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. SPT refusals encountered at 2.0m, 12.5m, 14.0m, 16.5m and 17.65m bgl. 5. Cable percussion drilling terminated at 18.0m bgl. Rotary core follow on to 24.0m bgl. 7. Monitoring standpipe installed to 24.0m bgl (18.0m plain, 6.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 02/05/2023 - 04/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385811.00 N398699.70
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP+RC	53.91m AoD	JR	1:25	Sheet 4 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		15.50 - 15.95	D				(41)				Very dense brown sandy silty slightly clayey angular to subrounded fine to coarse GRAVEL of sandstone. Sand is medium to coarse.
		16.50 - 16.95	D				N=50 (25 for 70mm/ 50 for 50mm)				
		17.65 - 18.00	D				N=50 (25 for 30mm/ 50 for 20mm)	17.00	36.91		Weak red SANDSTONE residually weathered recovered as clayey slightly gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse.
			NR					18.00	35.91		NO RECOVERY.
		18.00 - 19.50	NI 1 NI 1 NI	49	15	15		18.77	35.14		Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth planar closely spaced discontinuities. *From 18.77m to 18.86m bgl recovered as subrounded coarse cobbles.* *From 18.96m to 19.02m bgl recovered as sandy subrounded coarse cobbles. Sand is coarse.* *From 19.14m to 19.50m bgl recovered as subangular to subrounded medium to coarse gravel with occasional cobbles.*
			NR 1 NI 1 NI 1					19.50 19.58	34.41 34.33		NO RECOVERY. Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. SPT refusals encountered at 2.0m, 12.5m, 14.0m, 16.5m and 17.65m bgl. 5. Cable percussion drilling terminated at 18.0m bgl. Rotary core follow on to 24.0m bgl. 7. Monitoring standpipe installed to 24.0m bgl (18.0m plain, 6.0m slotted).

Rotary Core Log

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Location: MANCHESTER	Contractor:	Co-ords: E385811.00 N398699.70
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH1	CP+RC	53.91m AoD	JR	1:25	Sheet 5 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		19.50 - 21.00	NI 1 NI 2 NI 2	95	68	51					Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal rough undulating closely spaced discontinuities. *From 19.67m to 19.76m bgl recovered as subangular cobble.* *From 19.86m to 19.88m bgl recovered as subangular coarse gravel.* *From 20.05m to 20.22m bgl recovered as subangular to subrounded coarse gravel.* *From 20.30m to 20.41m bgl recovered as very clayey subangular to subrounded medium to coarse gravel.*
								21.00	32.91		
		21.00 - 22.50	NR NI 2 NI 1 NI 1 NI 2 NI	97	42	31		21.05 21.09	32.86 32.82		*Yellow calcareous minerals present from 20.40m to 20.43m bgl.* *From 20.61m to 20.63m bgl recovered as subangular coarse gravel.* NO RECOVERY. Weak red brown SANDSTONE residually weathered recovered as slightly sandy angular to subangular fine to coarse gravel. Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth stepped very close to closely spaced discontinuities. *From 21.34m to 21.74m bgl recovered as gravelly angular to subrounded fine to coarse cobbles. Gravel is angular to subrounded fine to coarse.* *From 21.81m to 21.89m bgl recovered as gravelly sand. Gravel is angular to subangular fine to coarse. Sand is fine to coarse.* *From 21.92m to 21.96m bgl recovered as angular coarse gravel.* *From 22.24m to 22.50m bgl recovered as gravelly subrounded coarse cobbles. Gravel is angular to subangular fine to coarse.*
								22.50	31.41		
		22.50 - 24.00	2 NI 2	100	89	89					Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth undulating close to medium spaced discontinuities. *Very clayey from 22.5m to 23.86m bgl.* *From 22.90m to 23.06m bgl recovered as very clayey sandy subrounded coarse cobbles. Sand is fine to coarse.*
								24.00	29.91		End of Borehole at 24.000m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. SPT refusals encountered at 2.0m, 12.5m, 14.0m, 16.5m and 17.65m bgl. 5. Cable percussion drilling terminated at 18.0m bgl. Rotary core follow on to 24.0m bgl. 7. Monitoring standpipe installed to 24.0m bgl (18.0m plain, 6.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 04/05/2023 - 10/05/2023
Location: MANCHESTER	Contractor:	
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH2	CP+RC		JR	1:25	Sheet 1 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	ES								MADE GROUND: Brown very gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic, fabric and glass.
		0.50	D								
		0.50	ES								
		1.00	ES								
		1.20 - 1.65	D				(15)				
								1.80			MADE GROUND: Concrete slab.
		2.00	D				(6)	2.00			MADE GROUND: Soft brown gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, sandstone and shale.
		2.00 - 2.45	ES								
		3.00	D				(6)				
		3.00 - 3.45	ES								
								3.50			Soft brown sandy silty CLAY. Sand is fine to coarse.
		4.00	D					4.00			Stiff brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale and sandstone.
		4.00 - 4.45	ES								
		5.00 - 5.45	U								

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 14.0m, 15.5m and 16.5m bgl. 5. Cable percussion drilling terminated at 16.0m bgl. Rotary core follow on to 22.0m bgl. 7. Monitoring standpipe installed to 21.0m bgl (18.0m plain, 3.0m slotted).

Rotary Core Log

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Location: MANCHESTER	Contractor:	
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH2	CP+RC		JR	1:25	Sheet 2 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		5.50	D								Stiff brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale and sandstone. *Medium strength at 5.0m bgl.*
		6.50 - 6.95	D				(15)				
		8.00 - 8.45	U								*High strength at 8.0m bgl.*
		8.50	D								
		9.50 - 9.95	D				(20)				

6 7 8 9 10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 14.0m, 15.5m and 16.5m bgl. 5. Cable percussion drilling terminated at 16.0m bgl. Rotary core follow on to 22.0m bgl. 7. Monitoring standpipe installed to 21.0m bgl (18.0m plain, 3.0m slotted).

Rotary Core Log

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Location: MANCHESTER	Contractor:	
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH2	CP+RC		JR	1:25	Sheet 3 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											Stiff brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale and sandstone.
		11.00 - 11.45	U								*Very high strength at 11.0m bgl.*
		11.50	D								
		12.50 - 12.95	D				(35)				
		14.00 - 14.45	D				N=50 (5,6/50 for 70mm)				
			D				(18)				

11
12
13
14
15

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 14.0m, 15.5m and 16.5m bgl. 5. Cable percussion drilling terminated at 16.0m bgl. Rotary core follow on to 22.0m bgl. 7. Monitoring standpipe installed to 21.0m bgl (18.0m plain, 3.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 04/05/2023 - 10/05/2023
Location: MANCHESTER	Contractor:	
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH2	CP+RC		JR	1:25	Sheet 4 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		15.00 - 15.45						15.20			Stiff brown slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including shale and sandstone. Red brown fine to medium SAND.
		15.50 - 16.00	D				N=50 (25 for 30mm/ 50 for 10mm)	15.50			Weak red SANDSTONE residually weathered recovered as sandy angular to subangular fine to coarse gravel. Sand is medium to coarse.
							N=50 (25 for 10mm/ 50 for 10mm)	16.00			NO RECOVERY
		16.00 - 17.50	NR 1 NI 2 NI 3 NI	70	54	49		16.45			Weak red brown fine grained SANDSTONE, moderately weathered with horizontal rough planar close to medium spaced discontinuities. *From 16.54m to 16.59m bgl recovered as subrounded coarse cobbles.* *From 16.85m to 16.87m bgl recovered as angular cobbles.* *From 17.35m to 17.50m bgl recovered as subangular coarse cobbles.*
		17.50 - 19.00	NR NI 4 NI NI NR	62	39	24		17.50 18.07			NO RECOVERY Weak red brown fine grained SANDSTONE, moderately weathered with horizontal striated stepped close to medium spaced discontinuities. *From 18.07m to 18.18m bgl recovered as sandy angular to subrounded fine to coarse gravel. Sand is coarse.* *From 18.70m to 18.9m bgl recovered as firm slightly sandy silty clay. Sand is fine.* *From 18.9m to 19.00m bgl yellow calcareous minerals present.*
		19.00 - 20.50	1 NI 2 NI 2 NI	96	73	47		19.00 19.05			NO RECOVERY. Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth planar closely spaced discontinuities. *From 19.21m to 19.30m bgl recovered as subrounded coarse cobbles.* *From 19.60m to 19.69m bgl recovered as subrounded coarse cobbles.* *From 19.61m to 19.62m bgl black organic staining on discontinuity.*

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 14.0m, 15.5m and 16.5m bgl. 5. Cable percussion drilling terminated at 16.0m bgl. Rotary core follow on to 22.0m bgl. 7. Monitoring standpipe installed to 21.0m bgl (18.0m plain, 3.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 04/05/2023 - 10/05/2023
Location: MANCHESTER	Contractor:	
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH2	CP+RC		JR	1:25	Sheet 5 of 5

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
			4								Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth planar closely spaced discontinuities.
			NR					20.50			*From 19.84m to 20.04m bgl recovered as sandy angular to subangular fine to coarse gravel of sandstone. Sand is fine to coarse.*
			2					20.55			*From 20.03m to 20.04m bgl yellow calcareous minerals present.*
			NI								NO RECOVERY.
			2								Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth planar close to medium spaced discontinuities.
		20.50 - 22.00	NI	96	80	75					*From 20.81m to 20.94m bgl recovered as subrounded coarse gravel.*
			3								*From 21.21m to 21.27m bgl recovered as subangular coarse cobbles.*
											From 21.75m to 21.76m bgl yellow calcareous minerals present.
			NI					22.00			*From 21.96m to 22.0m bgl recovered as subrounded coarse cobbles.*
											End of Borehole at 22.000m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 14.0m, 15.5m and 16.5m bgl. 5. Cable percussion drilling terminated at 16.0m bgl. Rotary core follow on to 22.0m bgl. 7. Monitoring standpipe installed to 21.0m bgl (18.0m plain, 3.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 1 of 6

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		0.50 0.50	D ES								MADE GROUND: Dark brown very gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, sandstone, concrete and plastic.
		1.00	ES								
		1.20 - 1.65	D				(16)				
		2.00 2.00 - 2.45	D ES				(10)				
								2.30	52.14		Firm grey mottled brown sandy CLAY. Sand is fine to coarse.
		3.00 3.00 - 3.45	ES U								
		3.50	D								
		4.00 - 4.45	D				(21)				
		5.00 - 5.45	U								

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 2 of 6

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		5.50	D								Firm grey mottled brown sandy CLAY. Sand is fine to coarse.
		6.50 - 6.95	D				(22)				
		8.00 - 8.45	U								
		8.50	D								
		9.50 - 9.95	D				(22)				

6 7 8 9 10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 3 of 6

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											Firm grey mottled brown sandy CLAY. Sand is fine to coarse.
		11.00 - 11.45	U								*Very high strength at 11.0m bgl.*
		11.50	D								
		12.50 - 12.95	D				(32)				
		14.00 - 14.45	D				(40)	14.00	40.44		Brown sandy gravelly COBBLES of sandstone. Gravel is angular to rounded fine to coarse of sandstone. Sand is medium to coarse.
								15.00	39.44		

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 4 of 6

Well	Water	Depth (m)	Type /FI	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		15.50 - 15.95	D				(42)				Stiff brown CLAY with a high cobble content of sandstone.
								16.50	37.94		Stiff grey silty CLAY.
		17.00 - 17.45	D				(37)				
								17.80	36.64		Weak red SANDSTONE residually weathered recovered as red brown clayey gravelly sand. Gravel is angular to subangular fine to coarse. Sand is medium to coarse.
		18.00 - 18.45	D				(27)				
		19.00	D				N=50 (25 for 10mm/ 50 for 20mm)				
		19.50	D				N=50 (25 for 20mm/ 50 for 10mm)				
								20.00	34.44		

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 5 of 6

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
											NO RECOVERY.
		20.00 - 21.50	NR	33	14	0					
			4					21.00	33.44		Very weak red brown fine grained SANDSTONE, extremely weathered with subhorizontal rough undulating closely spaced discontinuities.
			NI								*From 21.21m to 21.28m bgl grey colour within discontinuities.*
								21.50	32.94		*From 21.21m to 21.50m recovered as angular to subangular coarse gravel.*
			NR								NO RECOVERY.
		21.50 - 23.00	NI	53	10	10		22.20	32.24		
			1					22.30	32.14		Extremely weak red brown SANDSTONE, residually weathered recovered as stiff gravelly clay. Gravel is angular coarse.
			NI								*From 22.20m to 22.30m recovered as stiff gravelly clay. Gravel is angular coarse of sandstone.*
			NR					23.00	31.44		Very weak red brown fine grained SANDSTONE, extremely weathered with subhorizontal rough undulating close to medium spaced discontinuities.
			2					23.02	31.42		*From 22.55m to 23.00m bgl recovered as angular coarse gravel.*
			NI								*From 22.20m to 23.00m bgl occasional angular to subangular coarse gravel of chert.*
		23.36 - 23.56	C								NO RECOVERY.
		23.00 - 24.50	6	99	88	83					Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal stepped striated closely spaced discontinuities.
											From 23.30m to 23.36m bgl recovered as angular coarse cobbles.
			NI								*From 24.33m to 24.50m recovered as angular to subangular coarse gravel.*
			NI					24.50	29.94		Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth undulating closely spaced discontinuities.
			2								*From 24.50m to 24.60m bgl recovered as angular to subangular coarse gravel.*
			NI								

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Rotary Core Log

Project Name: BRUNSWICK MILL	Client: ARROWSMITH INVESTMENT LIMITED	Date: 10/05/2023 - 12/05/2023
Location: MANCHESTER	Contractor:	Co-ords: E385741.30 N398644.50
Project No. : GRO-22462	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
BH3	CP+RC	54.44m AoD	JR	1:25	Sheet 6 of 6

Well	Water	Depth (m)	Type /Fl	Coring TCR	Coring SCR	Coring RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		24.50 - 26.00	1 NI 1 NI 4 NI 1	100	80	71		26.00	28.44		Weak red brown fine grained SANDSTONE, moderately weathered with subhorizontal smooth undulating closely spaced discontinuities. *From 24.50m to 24.61m bgl yellow calcareous minerals present.* *From 24.86m to 25.02m bgl recovered as subrounded coarse cobbles.* *From 25.09m to 25.13m bgl recovered as subrounded coarse gravel.* *From 25.28m to 25.36m bgl recovered as subrounded coarse cobbles.* *From 25.89m to 25.91m bgl recovered as subangular coarse gravel.* End of Borehole at 26.000m

26
27
28
29
30

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 20.0m bgl. 4. SPT refusals encountered at 19.0m and 19.5m bgl. 5. Cable percussion drilling terminated at 20.0m bgl. Rotary core follow on to 26.0m bgl. 7. Dual monitoring standpipes installed to 21.0m bgl and 3.0m bgl (18.0m plain, 3.0m slotted, and 1.0m plain, 2.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS01** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385776.00 - 398657.20	Hole Type WS
Location: MANCHESTER		Level: 53.59	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20	53.39		MADE GROUND: Brown gravelly medium to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood. Faint ashy organic odour. End of borehole at 0.20 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS01A** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385776.70 - 398658.80	Hole Type WS
Location: MANCHESTER		Level: 53.55	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly medium to coarse sand with a moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, fabric, sandstone and wood. Faint ashy organic odour.
								Becoming black at 0.7m bgl.
		1.00	ES					
		1.20		N=50 (3,5/50 for 60mm)				
					1.65	51.90		End of borehole at 1.65 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No.
WS02
Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385782.15 - 398665.48	Hole Type WS
Location:	MANCHESTER		Level:	53.64	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.05	ES		0.10	53.54		MADE GROUND: Brown gravelly medium to coarse sand with moderate cobble content of sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, fabric, sandstone and wood. End of borehole at 0.10 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.1m bgl. 3. No groundwater encountered. 4. Borehole terminated due to sandstone boulder obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS02A** Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385781.17 - 398666.27	Hole Type WS
Location:	MANCHESTER		Level:	53.70	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with moderate cobble content of sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood. Faint ashy organic odour.
		1.00	D					
		1.20		N=12 (1,4/3,3,3,3)				
		1.50	ES					
		2.00		N=50 (9,11/50 for 30mm)	2.00	51.70		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Monitoring standpipe installed to 2.0m bgl (1.0m plain, 1.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS03**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385789.18 - 398678.50	Hole Type WS
Location:	MANCHESTER		Level:	53.75	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood.
		1.00	D					
		1.20		N=13 (3,3/4,3,3,3)				
		1.50	ES					
		2.00		N=28 (25 for 60mm/4,4,8,12)	2.00	51.75		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS04**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385803.87 - 398685.93	Hole Type WS
Location:	MANCHESTER		Level:	53.61	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown black gravelly fine to coarse sand with moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, roof slates, sandstone and wood. Faint ashy organic odour.
		1.00	D					*Becoming very sandy at 1.0m bgl.*
		1.20		N=11 (3,3/3,3,3,2)				
		1.50	ES					
		2.00		N=50 (6,9/50 for 50mm)	2.00	51.61		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS05**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385819.00 - 398704.58	Hole Type WS
Location:	MANCHESTER		Level:	53.72	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, roof slates, sandstone and wood.
		1.20		N=8 (2,0/2,2,2,2)				
		1.50	ES					
		2.00		N=50 (25 for 50mm/50 for 10mm)	2.00	51.72		End of borehole at 2.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Monitoring standpipe installed to 2.0m bgl (1.0m plain, 1.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS06** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385830.31 - 398706.55	Hole Type WS
Location: MANCHESTER		Level: 53.38	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.60	52.78		MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, glass, paper, plastic, rubber, sandstone and wood. Faint ashy organic odour.
								End of borehole at 0.60 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.6m bgl. 3. No groundwater encountered. 4. Borehole terminated due to brick obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS06A** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385828.15 - 398704.56	Hole Type WS
Location: MANCHESTER		Level: 53.47	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.60	52.87		MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick and a faint hydrocarbon odour. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic, sandstone and wood.
								End of borehole at 0.60 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.6m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS07**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385814.06 - 398711.63	Hole Type WS
Location: MANCHESTER		Level: 53.61	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES		0.80	52.81		MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, plastic, sandstone and wood.
								End of borehole at 0.80 m

1
2
3
4
5

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.8m bgl. 3. No groundwater encountered. 4. Borehole terminated due to concrete obstruction. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS07A**

Sheet 1 of 1

Project Name:	BRUNSWICK MILL	Project No. GRO-22462	Co-ords:	385813.25 - 398711.65	Hole Type WS
Location:	MANCHESTER		Level:	53.74	Scale 1:25
Client:	ARROWSMITH INVESTMENT LIMITED		Dates:	04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, fabric, plastic, sandstone and wood.
		1.00	ES					
		1.20		N=3 (1,1/0,1,1,1)				
		1.50		N=50 (25 for 0mm/50 for 0mm)				
					1.95	51.79		End of borehole at 1.95 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated due to SPT refusal. 5. Monitoring standpipe installed to 1.5m bgl (1.0m plain, 0.5m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS08** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385763.49 - 398679.02	Hole Type WS
Location: MANCHESTER		Level: 53.97	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 04/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, ceramics, sandstone and wood.
		1.20		N=4 (1,1/1,1,1,1)				
		1.50	ES					*Becoming very sandy at 1.4m bgl.*
		2.00		N=8 (1,0/2,2,2,2)				
					2.20	51.77		
		2.50	ES					Stiff brown mottled grey gravelly CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including coal, shale and sandstone.
		3.00 3.00	D	N=28 (4,4/5,7,8,8)				
		4.00 4.00	D	N=17 (4,4/4,4,4,5)	4.00	49.97		End of borehole at 4.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated at 4.0m bgl. 5. Monitoring standpipe installed to 4.0m bgl (1.0m plain, 3.0m slotted).

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS09** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15			MADE GROUND: Paving cobbles.
		0.50	ES					MADE GROUND: Dark brown slightly clayey ashy gravelly medium to coarse sand with a low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, ash, tarmac and slag. Faint ashy organic odour odour.
					0.90			End of borehole at 0.90 m

1
2
3
4
5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.9m bgl. 3. No groundwater encountered. 4. Borehole terminated due to drain encountered at 0.9m bgl. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS10**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15			MADE GROUND: Paving cobbles.
		0.50	ES					MADE GROUND: Dark grey black slightly clayey ashy gravelly medium to coarse sand with a low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and slag. Mild ashy organic odour.
		1.20 1.20	ES	N=2 (1,0/0,1,0,1)				*Becoming very clayey from 1.2m to 1.5m bgl.*
					1.50			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
		1.70	ES					
		2.00 2.00	D	N=15 (2,3/3,4,4,4)				
		3.00 3.00	D	N=13 (4,4/4,3,3,3)	3.00			Medium dense brown clayey fine to medium SAND.
					3.50			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
		4.00 4.00	D	N=32 (6,6/8,8,8,8)	4.00			End of borehole at 4.00 m

Remarks

1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Borehole terminated at 4.0m bgl. 5. Backfilled with arisings.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS11** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: -	Hole Type WS
Location: MANCHESTER		Level:	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED		Dates: 05/05/2023 -	Logged By JR

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.15			MADE GROUND: Paving cobbles.
		0.50	ES					MADE GROUND: Dark grey black slightly clayey ashy gravelly medium to coarse sand with low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and slag. Faint ashy organic odour.
		1.20		N=8 (2,2/2,2,2,2)	1.25			
		1.50	ES					MADE GROUND: Firm dark grey slightly ashy gravelly clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, and sandstone. Moderate hydrocarbon odour.
		2.00		N=20 (4,4/4,5,5,6)				
		2.50	ES		2.45			Firm brown mottled grey slightly sandy CLAY. Sand is medium to coarse.
								Band of fine to coarse sand at 2.7m to 2.9m bgl.
		3.00	D					
	▼	3.00		N=20 (3,4/5,5,5,5)				
		4.00	D		4.00			End of borehole at 4.00 m
		4.00		N=33 (7,8/7,8,9,9)				

1 2 3 4 5

Remarks
1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 3.45m bgl. 4. Borehole terminated at 4.0m bgl. 5. Backfilled with arisings.

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **TP01** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385783.28 - 398662.21 Level: 53.55	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 2.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.50	ES		0.55	53.00		MADE GROUND: Brown gravelly medium to coarse sand with moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, glass, sandstone and wood. Faint ashy organic odour.
▼	1.00	ES					MADE GROUND: Dark grey black slightly clayey slightly sandy angular to subangular fine to coarse gravel of brick, concrete, metal, rubber, fabric, wood, tarmac, sandstone and plastic with moderate cobble content of brick. Sand is medium to coarse. Moderate hydrocarbon odour.
	2.00	ES		2.20	51.35		End of pit at 2.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Groundwater encountered at 1.3m bgl. 3. Pit terminated on concrete slab and brick wall at 2.2m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **TP02**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385750.00 - 398665.67 Level: 53.78	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.80	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.50	ES					MADE GROUND: Brown gravelly fine to coarse sand with moderate cobble content of brick. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, concrete, metal, wood, plastic and fabric. Faint ashy organic odour.
	1.50	ES					
				1.80	51.98		End of pit at 1.80 m

1
2
3
4
5

Remarks: 1. Location cleared with hand held CAT scanner. 2. No groundwater encountered. 3. Pit terminated on concrete slab at 1.8m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **TP03**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385778.21 - 398675.74 Level: 53.83	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.50	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.50	ES					MADE GROUND: Brown gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, tarmac and wood.
	1.00	ES					
	1.50	ES		1.50	52.33		End of pit at 1.50 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. No groundwater encountered. 3. Backfilled with arisings.

Stability: Stable

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No **TP04**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385799.57 - 398679.68 Level: 53.75	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 3.00	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with a moderate cobble content of brick and sandstone. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, metal, concrete, sandstone and wood. Faint ashy organic odour.
	1.00	ES					
	2.00	ES					
▼	3.00	ES		3.00	50.75		End of pit at 3.00 m

Remarks: 1. Location cleared with hand held CAT scanner. 2. Groundwater encountered at 3.0m bgl. 3. Hole terminated due to pit side collapse from 2.8m bgl. 4. Backfilled with arisings.

Stability: Unstable

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No **TP05**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385738.54 - 398639.63 Level: 54.47	Date 10/05/2023
Location: MANCHESTER		Dimensions (m): Depth 2.80	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.50	ES					MADE GROUND: Dark brown very sandy angular to subangular fine to coarse gravel of brick, sandstone, concrete, fabric, plastic, slate and metal with high cobble content of brick.
	1.00	ES					
	2.00	ES					
	2.70	ES	HVP=48	2.70	51.77		Firm medium strength grey mottled brown slightly sandy CLAY. Sand is fine to coarse.
				2.80	51.67		End of pit at 2.80 m

Remarks: 1. Location cleared with hand held CAT scanner. 2. No groundwater encountered. 3. Hole terminated due to pit side collapse from 2.6m bgl. 4. Backfilled with arisings.

Stability: Unstable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **TP06** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385754.11 - 398636.68 Level: 54.85	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 2.80	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.50	ES					MADE GROUND: Dark brown very sandy angular to subangular fine to coarse gravel of brick, sandstone, concrete, fabric, plastic, slate and metal with moderate cobble content of brick.
	1.00	ES					
	2.00	ES					
	2.50	ES					
	2.70	ES	HVP=53	2.70	52.15		Firm medium strength grey mottled brown slightly sandy CLAY. Sand is fine to coarse.
				2.80	52.05		End of pit at 2.80 m

Remarks: 1. Location cleared with hand held CAT scanner. 2. No groundwater encountered. 3. Pit side collapse from 2.6m bgl. 4. Backfilled with arisings.

Stability: Unstable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **TP07** Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: 385785.98 - 398697.12 Level: 53.82	Date 10/05/2023
Location: MANCHESTER		Dimensions (m): Depth 2.70	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.50	ES					MADE GROUND: Brown black gravelly medium to coarse sand with moderate cobble content of brick and concrete. Gravel is angular to subrounded fine to coarse of mixed lithologies including brick, metal, concrete, sandstone and wood. Faint ashy organic odour.
	1.00	ES					
	2.00	ES					
	2.60	ES	HVP=45	2.60 2.70	51.22 51.12		Stiff medium strength brown mottled grey gravelly CLAY. Gravel is angular to subangular fine to coarse of mixed lithologies including coal, shale and sandstone. End of pit at 2.70 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. No groundwater encountered. 3. Pit side collapse from 2.5m bgl. 4. Backfilled with arisings.

Stability: Unstable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP01**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 0.70	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.15			MADE GROUND: Paving cobbles.
	0.50	ES					MADE GROUND: Dark brown slightly clayey slightly ashy gravelly medium to coarse sand with low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and slag. Faint ashy organic odour.
							Pipe encountered at 0.45m bgl.
				0.70			End of pit at 0.70 m

1
2
3
4
5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.7m bgl. 3. No groundwater encountered. 4. Pipe encountered at 0.45m bgl. 5. Hole terminated due to brick obstruction. 6. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP02**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.05			MADE GROUND: Concrete.
							MADE GROUND: Paving cobbles.
				0.20			MADE GROUND: Dark grey black slightly ashy slightly clayey gravelly medium to coarse sand with a low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and slag. Mild ashy organic odour.
	0.50	ES					
				1.00			Soft brown CLAY.
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP03**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.15			MADE GROUND: Paving cobbles.
	0.50	ES					MADE GROUND: Dark grey black slightly clayey slightly ashy gravelly medium to coarse sand with a low cobble content of brick. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and slag. Faint ashy organic odour. *Pipe encountered at 0.25m bgl.*
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Pipe encountered at 0.25m bgl. 5. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP04**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 09/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			MADE GROUND: Concrete.
	0.50	ES					MADE GROUND: Soft to firm dark grey brown gravelly sandy clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and sandstone. Sand is medium to coarse.
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP05**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 10/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.03			MADE GROUND: Chipboard.
				0.10			MADE GROUND: Wooden planks.
				0.20			MADE GROUND: Sandstone slab.
	0.50	ES					MADE GROUND: Grey brown clayey gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, wood, sandstone and concrete.
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP06**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 10/05/2023
Location: MANCHESTER		Dimensions (m): Depth 0.70	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			MADE GROUND: Concrete.
	0.50	ES		0.70			MADE GROUND: Soft to firm dark brown gravelly sandy clay. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and sandstone. Sand is medium to coarse.
							End of pit at 0.70 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.7m bgl. 3. No groundwater encountered. 4. Hole terminated due to footing obstruction. 5. Backfilled with arisings.

Stability: Stable

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No **HP07**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 10/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.02			MADE GROUND: Chipboard.
							MADE GROUND: Wooden planks.
				0.20			MADE GROUND: Concrete.
				0.40			MADE GROUND: Soft brown gravelly sandy clay. Gravel is angular to subangular fine to coarse including brick, concrete and wood. Sand is medium to coarse.
▼	0.50	ES					
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 1.0m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP08**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 11/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.02			MADE GROUND: Chipboard.
				0.15			MADE GROUND: Wooden planks.
							MADE GROUND: Concrete.
				0.35			MADE GROUND: Dark brown gravelly clayey medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, sandstone and wood.
	0.50	ES					
▼				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 1.2m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP09**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 11/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete.
	0.50	ES					MADE GROUND: Grey brown slightly clayey gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, wood, sandstone and concrete.
▼				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. Groundwater encountered at 1.2m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP10**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 11/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.00	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.10			MADE GROUND: Concrete.
	0.50	ES					MADE GROUND: Grey brown clayey gravelly medium to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, wood, sandstone and concrete.
▼				1.00			End of pit at 1.00 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.0m bgl. 3. Groundwater encountered at 1.0m bgl. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP11**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 11/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.50	ES					MADE GROUND: Dark brown black gravelly medium to coarse sand with moderate cobble content of brick, wood and metal. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, plastic, metal, fabric, glass, wood, rubber, paper and ceramics. Strong hydrocarbon odour.
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP12**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 12/05/2023
Location: MANCHESTER		Dimensions (m): Depth 0.50	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		0.50			MADE GROUND: Dark brown gravelly medium to coarse sand with moderate cobble content of brick, wood and metal. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete, plastic, metal, fabric, glass, wood, rubber, paper and ceramics. Moderate ashy organic odour.
							End of pit at 0.50 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 0.5m bgl. 3. No groundwater encountered. 4. Hole terminated due to collapse. 5. Backfilled with arisings.

Stability: Unstable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP13**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 12/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.50	ES					MADE GROUND: Dark brown very sandy angular to subangular fine to coarse gravel of brick, sandstone, concrete, fabric, plastic, slate and metal with a moderate cobble content of brick. *Sub-floor void encountered from 0.1m to 0.4m bgl.*
				1.20			End of pit at 1.20 m

1 2 3 4 5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

Trial Pit Log

GROUNDTECH CONSULTING

Trialpit No **HP13A**

Sheet 1 of 1

Project Name: BRUNSWICK MILL	Project No. GRO-22462	Co-ords: - Level:	Date 12/05/2023
Location: MANCHESTER		Dimensions (m): Depth 1.20	Scale 1:25
Client: ARROWSMITH INVESTMENT LIMITED			Logged JR

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.50	ES					MADE GROUND: Dark brown very sandy angular to subangular fine to coarse gravel of brick, sandstone, concrete, fabric, plastic, slate and metal with a high cobble content of brick.
				1.20			End of pit at 1.20 m

1
2
3
4
5

Remarks: 1. Location cleared with hand held CAT scanner. 2. Hand dug pit to 1.2m bgl. 3. No groundwater encountered. 4. Backfilled with arisings.

Stability: Stable

APPENDIX 4 - Geo-Environmental Testing Results (Soils)

Element Materials Technology
Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

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F: +44 (0) 1244 833781
W: www.element.com

Groundtech Consulting Limited
PO Box 499
Manchester
United Kingdom
M28 8EE

Attention :	Jacob Roby
Date :	5th June, 2023
Your reference :	GRO-22462
Our reference :	Test Report 23/7686 Batch 1
Location :	Brunswick Mill
Date samples received :	16th May, 2023
Status :	Final Report
Issue :	1

Sixty six samples were received for analysis on 16th May, 2023 of which twenty nine were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Bruce Leslie
Project Manager

Element Materials Technology Environmental UK Limited
Registered in England and Wales
Registered Office: 3rd Floor Davidson Building, 5 Southampton Street, London WC2E 7HA
Company Registration No: 11371415

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	13-15	16-18	19-21	25-27	28-30	31-33	34-36	LOD/LOR	Units	Method No.
Sample ID	HP01	HP02	HP03	HP05	HP06	HP07	HP09	HP10	HP11	HP12			
Depth	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	09/05/2023	09/05/2023	09/05/2023	10/05/2023	10/05/2023	10/05/2023	11/05/2023	11/05/2023	11/05/2023	12/05/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023			
Arsenic #	17.3	71.9	27.8	18.1	10.4	8.5	23.2	11.3	43.7	10.6	<0.5	mg/kg	TM30/PM15
Cadmium #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium #	84.1	70.8	44.3	54.2	49.1	48.3	44.8	81.3	66.3	47.5	<0.5	mg/kg	TM30/PM15
Copper #	63	142	1477 AC	81	29	31	88	38	268 AB	254 AB	<1	mg/kg	TM30/PM15
Lead #	296	155	272	72	16	14	115	133	981	204	<5	mg/kg	TM30/PM15
Mercury #	0.4	0.7	0.4	1.2	<0.1	<0.1	0.3	0.4	0.3	0.2	<0.1	mg/kg	TM30/PM15
Nickel #	42.0	65.4	39.2	43.5	43.6	42.0	48.8	25.4	51.1	21.9	<0.7	mg/kg	TM30/PM15
Selenium #	1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Zinc #	71	127	226	256	75	75	55	65	399	210	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	0.06	0.40	26.83 AC	0.05	<0.04	<0.04	0.53	1.50	2.78 AC	0.19	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.04	0.16	1.37 AC	0.05	<0.03	<0.03	0.22	1.78	<0.30 AC	0.14	<0.03	mg/kg	TM4/PM8
Acenaphthene #	0.15	0.34	54.06 AC	<0.05	<0.05	<0.05	0.41	1.37	10.06 AC	0.21	<0.05	mg/kg	TM4/PM8
Fluorene #	0.16	0.37	33.12 AC	0.07	<0.04	<0.04	0.46	2.04	14.62 AC	0.19	<0.04	mg/kg	TM4/PM8
Phenanthrene #	1.69	5.44	>>274.34 AC	0.98	<0.03	<0.03	5.48	15.97	38.90 AC	2.15	<0.03	mg/kg	TM4/PM8
Anthracene #	0.47	1.14	71.85 AC	0.20	<0.04	<0.04	1.30	5.22	5.09 AC	0.60	<0.04	mg/kg	TM4/PM8
Fluoranthene #	1.59	5.77	>>291.31 AC	0.87	<0.03	<0.03	5.40	14.39	8.41 AC	4.05	<0.03	mg/kg	TM4/PM8
Pyrene #	1.55	5.64	>>250.97 AC	0.96	<0.03	<0.03	5.60	14.49	9.26 AC	3.82	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	0.83	2.62	110.20 AC	0.51	<0.06	<0.06	2.62	8.13	3.05 AC	2.00	<0.06	mg/kg	TM4/PM8
Chrysene #	0.86	2.85	106.60 AC	0.55	<0.02	<0.02	2.87	7.31	4.35 AC	2.16	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	1.04	3.90	166.47 AC	0.77	<0.07	<0.07	3.80	8.84	4.09 AC	3.65	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	0.67	2.32	107.79 AC	0.48	<0.04	<0.04	2.44	5.92	2.11 AC	2.34	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.27	1.19	61.48 AC	0.24	<0.04	<0.04	1.11	2.44	1.26 AC	1.22	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.07	0.22	10.87 AC	<0.04	<0.04	<0.04	0.24	0.46	<0.40 AC	0.25	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.31	1.29	64.20 AC	0.26	<0.04	<0.04	1.16	2.55	1.42 AC	1.33	<0.04	mg/kg	TM4/PM8
PAH 16 Total	9.8	33.7	1631.5 AC	6.0	<0.6	<0.6	33.6	92.4	105.4 AC	24.3	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.75	2.81	119.86 AC	0.55	<0.05	<0.05	2.74	6.36	2.94 AC	2.63	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.29	1.09	46.61 AC	0.22	<0.02	<0.02	1.06	2.48	1.15 AC	1.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	103	101	98 AC	100	88	74	98	101	104 AC	96	<0	%	TM4/PM8
VOC TICs	-	-	-	-	-	-	-	-	See Attached	ND		None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	-	-	-	-	-	-	-	<2 SV	<2	<2	ug/kg	TM15/PM10
Benzene #	-	-	-	-	-	-	-	-	<3 SV	<3	<3	ug/kg	TM15/PM10
Toluene #	-	-	-	-	-	-	-	-	<3 SV	<3	<3	ug/kg	TM15/PM10
Ethylbenzene #	-	-	-	-	-	-	-	-	<3 SV	<3	<3	ug/kg	TM15/PM10
m/p-Xylene #	-	-	-	-	-	-	-	-	<5 SV	<5	<5	ug/kg	TM15/PM10
o-Xylene #	-	-	-	-	-	-	-	-	20 SV	<3	<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	-	-	-	-	-	38 SV	75	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	-	-	-	-	-	56 SV	72	<0	%	TM15/PM10
SVOC TICs	-	-	-	-	-	-	-	-	See Attached	ND		None	TM16/PM8

Please see attached notes for all abbreviations and acronyms

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All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-3	4-6	7-9	13-15	16-18	19-21	25-27	28-30	31-33	34-36	LOD/LOR	Units	Method No.
Sample ID	HP01	HP02	HP03	HP05	HP06	HP07	HP09	HP10	HP11	HP12			
Depth	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	09/05/2023	09/05/2023	09/05/2023	10/05/2023	10/05/2023	10/05/2023	11/05/2023	11/05/2023	11/05/2023	12/05/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	-	-	-	-	-	-	-	-	<0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	-	-	-	-	-	-	-	-	<0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	-	-	-	-	-	-	-	-	0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	-	-	-	-	-	-	-	-	185.1 AA	1.3	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	-	-	-	-	-	-	-	-	2910 AA	15	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	-	-	-	-	-	-	-	-	4354 AA	59	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	-	-	-	-	-	-	-	-	2963 AA	410	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	-	-	-	-	-	-	-	-	10412 AA	485	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	-	-	-	-	-	-	-	-	<0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	-	-	-	-	-	-	-	-	<0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	-	-	-	-	-	-	-	-	<0.1 SV	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	-	-	-	-	-	-	-	-	124.7 AA	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	-	-	-	-	-	-	-	-	3531 AA	11	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	-	-	-	-	-	-	-	-	6909 AA	77	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	-	-	-	-	-	-	-	-	5342 AA	665	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	-	-	-	-	-	-	-	-	15907 AA	753	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	-	-	-	-	-	-	-	-	26319 AA	1238	<38	mg/kg	TM5/TM36/PM8/PM12/PM16
MTBE #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Benzene #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Toluene #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Ethylbenzene #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
m/p-Xylene #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
o-Xylene #	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Natural Moisture Content	22.4	20.3	13.3	34.6	24.4	28.6	23.8	17.2	35.4	25.8	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	NDP	<0.3	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0410	0.1015	1.1984	0.4907	0.3221	0.2491	0.1158	0.1276	1.7004	1.5186	<0.0015	g/l	TM38/PM20
Organic Matter	9.2	25.9	22.6	15.2	1.3	1.6	19.7	7.6	15.1	5.9	<0.2	%	TM21/PM24
pH #	8.68	8.68	7.95	8.22	8.67	8.44	8.53	8.75	NDP	7.65	<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	Chrysotile	NAD		None	Subcontracted
Asbestos PCOM Quantification*	-	-	-	-	-	-	-	-	<0.001	-	<0.001	mass %	Subcontracted
Asbestos Gravimetric Quantification*	-	-	-	-	-	-	-	-	0.57	-		mass %	Subcontracted

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Element Materials Technology

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	37-39	46-48	52-54	61-63	73-75	82-84	91-93	103-105	109-111	124-126	Please see attached notes for all abbreviations and acronyms		
Sample ID	HP13	TP01	TP02	TP03	TP04	TP05	TP06	TP06	TP07	WS01A			
Depth	0.50	1.00	0.50	1.00	2.00	1.00	0.50	2.70	1.00	1.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	12/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	13/05/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	LOD/LOR	Units	Method No.
Arsenic #	12.9	25.3	17.0	10.2	7.4	15.3	35.1	-	9.6	11.3	<0.5	mg/kg	TM30/PM15
Cadmium #	5.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium #	26.0	46.0	46.9	40.9	59.5	47.0	36.8	-	38.9	52.5	<0.5	mg/kg	TM30/PM15
Copper #	37	192	100	361 AB	98	107	153	-	64	43	<1	mg/kg	TM30/PM15
Lead #	142	1095	319	98	187	586	715	-	117	93	<5	mg/kg	TM30/PM15
Mercury #	<0.1	0.4	0.3	0.3	0.2	0.6	0.4	-	<0.1	0.2	<0.1	mg/kg	TM30/PM15
Nickel #	11.0	42.8	20.9	18.7	44.2	28.8	27.6	-	17.3	26.7	<0.7	mg/kg	TM30/PM15
Selenium #	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	mg/kg	TM30/PM15
Zinc #	158	225	199	117	136	212	301	-	129	123	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	0.48	20.67 AC	0.81	0.26	0.22	0.12	0.10	-	0.48	0.49	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.29	9.21 AC	0.34	0.13	0.11	0.07	0.05	-	0.27	0.13	<0.03	mg/kg	TM4/PM8
Acenaphthene #	0.83	24.97 AC	1.66	0.28	0.93	<0.05	0.10	-	0.63	0.59	<0.05	mg/kg	TM4/PM8
Fluorene #	0.62	24.60 AC	1.45	0.27	0.91	<0.04	0.06	-	0.48	0.45	<0.04	mg/kg	TM4/PM8
Phenanthrene #	6.59	229.31 AC	11.18	2.24	3.95	0.63	0.89	-	5.15	3.30	<0.03	mg/kg	TM4/PM8
Anthracene #	1.27	58.04 AC	3.21	0.63	0.79	0.27	0.21	-	1.32	0.87	<0.04	mg/kg	TM4/PM8
Fluoranthene #	6.23	208.62 AC	13.88	3.01	3.80	1.39	1.35	-	8.53	5.25	<0.03	mg/kg	TM4/PM8
Pyrene #	5.69	216.46 AC	12.30	3.11	3.57	1.22	1.32	-	7.62	4.68	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	2.67	112.94 AC	5.99	1.53	1.64	0.69	0.59	-	3.97	2.22	<0.06	mg/kg	TM4/PM8
Chrysene #	2.97	110.74 AC	6.47	1.69	1.90	0.82	0.68	-	4.24	2.41	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	4.51	147.03 AC	10.36	2.75	2.30	1.55	1.03	-	6.97	4.05	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	2.57	95.13 AC	6.45	1.88	1.29	0.90	0.63	-	4.40	2.42	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	1.44	45.35 AC	3.61	1.03	0.83	0.63	0.36	-	2.71	1.52	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.23	12.07 AC	0.55	0.22	0.22	0.11	0.06	-	0.34	0.22	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	1.53	50.58 AC	3.68	0.99	0.92	0.73	0.42	-	2.75	1.43	<0.04	mg/kg	TM4/PM8
PAH 16 Total	37.9	1365.7 AC	81.9	20.0	23.4	9.1	7.9	-	49.9	30.0	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	3.25	105.86 AC	7.46	1.98	1.66	1.12	0.74	-	5.02	2.92	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	1.26	41.17 AC	2.90	0.77	0.64	0.43	0.29	-	1.95	1.13	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	96	97 AC	96	97	91	93	92	-	88	101	<0	%	TM4/PM8
VOC TICs	-	ND	ND	-	-	-	-	-	-	-		None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	<2	<2	-	-	-	-	-	-	-	<2	ug/kg	TM15/PM10
Benzene #	-	9	<3	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Toluene #	-	17	<3	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Ethylbenzene #	-	22	<3	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
m/p-Xylene #	-	79	<5	-	-	-	-	-	-	-	<5	ug/kg	TM15/PM10
o-Xylene #	-	34	<3	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	67	72	-	-	-	-	-	-	-	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	61	69	-	-	-	-	-	-	-	<0	%	TM15/PM10
SVOC TICs	-	See Attached	See Attached	-	-	-	-	-	-	-		None	TM16/PM8

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	37-39	46-48	52-54	61-63	73-75	82-84	91-93	103-105	109-111	124-126	LOD/LOR	Units	Method No.
Sample ID	HP13	TP01	TP02	TP03	TP04	TP05	TP06	TP06	TP07	WS01A			
Depth	0.50	1.00	0.50	1.00	2.00	1.00	0.50	2.70	1.00	1.00			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	12/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	11/05/2023	13/05/2023			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023			
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	-	<0.1 SV	<0.1	-	-	-	-	-	-	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	-	<0.1 SV	<0.1	-	-	-	-	-	-	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	-	0.3 SV	<0.1	-	-	-	-	-	-	0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	-	6.8	6.1	-	-	-	-	-	-	7.4	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	-	26	24	-	-	-	-	-	-	30	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	-	120	64	-	-	-	-	-	-	90	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	-	446	319	-	-	-	-	-	-	294	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	-	599	413	-	-	-	-	-	-	422	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	-	<0.1 SV	<0.1	-	-	-	-	-	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	-	<0.1 SV	<0.1	-	-	-	-	-	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	-	<0.1 SV	<0.1	-	-	-	-	-	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	-	6.0	0.7	-	-	-	-	-	-	<0.2	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	-	75	21	-	-	-	-	-	-	16	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	-	740	169	-	-	-	-	-	-	87	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	-	1893	850	-	-	-	-	-	-	311	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	-	2714	1041	-	-	-	-	-	-	414	<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	-	3313	1454	-	-	-	-	-	-	836	<38	mg/kg	TM5/TM36/PM8/PM12/PM16
MTBE #	-	-	-	-	-	-	-	-	-	<5	<5	ug/kg	TM36/PM12
Benzene #	-	-	-	-	-	-	-	-	-	<5	<5	ug/kg	TM36/PM12
Toluene #	-	-	-	-	-	-	-	-	-	<5	<5	ug/kg	TM36/PM12
Ethylbenzene #	-	-	-	-	-	-	-	-	-	<5	<5	ug/kg	TM36/PM12
m/p-Xylene #	-	-	-	-	-	-	-	-	-	9	<5	ug/kg	TM36/PM12
o-Xylene #	-	-	-	-	-	-	-	-	-	6	<5	ug/kg	TM36/PM12
Natural Moisture Content	13.2	30.1	14.7	17.5	13.9	18.9	21.4	-	13.1	16.3	<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.1566	0.7809	0.4829	1.2846	1.1798	1.4750	0.0401	0.0353	0.2459	0.7040	<0.0015	g/l	TM38/PM20
Organic Matter	2.3	19.9	5.0	5.8	2.9	9.0	7.1	-	3.8	3.2	<0.2	%	TM21/PM24
pH #	8.18	8.06	8.11	8.60	7.76	8.56	8.38	7.89	8.22	8.14	<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	NAD	NAD	NAD	NAD	NAD	-	Amosite	NAD		None	Subcontracted
Asbestos PCOM Quantification*	-	-	-	-	-	-	-	-	<0.001	-	<0.001	mass %	Subcontracted
Asbestos Gravimetric Quantification*	-	-	-	-	-	-	-	-	0.002	-		mass %	Subcontracted

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	130-132	142-144	154-156	166-168	169-171	175-177	178-180	184-186	193-195		LOD/LOR	Units	Method No.
Sample ID	WS02	WS04	WS06	WS07A	WS08	WS08	WS09	WS10	WS11				
Depth	0.50	0.50	0.50	1.00	0.50	2.50	0.50	1.20	1.50				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T				
Sample Date	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023				
Arsenic #	11.0	8.2	10.2	14.2	9.7	-	67.9	14.1	13.2		<0.5	mg/kg	TM30/PM15
Cadmium #	<0.1	<0.1	0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM30/PM15
Chromium #	40.0	47.6	37.8	45.8	39.8	-	68.7	56.6	58.1		<0.5	mg/kg	TM30/PM15
Copper #	62	64	81	71	327 AB	-	158	47	25		<1	mg/kg	TM30/PM15
Lead #	119	50	335	3285 AB	144	-	199	51	16		<5	mg/kg	TM30/PM15
Mercury #	<0.1	0.2	1.2	0.1	0.3	-	0.6	0.3	0.1		<0.1	mg/kg	TM30/PM15
Nickel #	23.8	21.8	17.0	21.4	20.3	-	56.2	31.8	33.8		<0.7	mg/kg	TM30/PM15
Selenium #	<1	<1	<1	<1	<1	-	2	1	<1		<1	mg/kg	TM30/PM15
Zinc #	140	101	438	207	113	-	152	57	56		<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	0.33	<0.40 AC	0.23	0.38	1.90	-	1.35	<0.04	0.33		<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.18	<0.30 AC	0.16	0.19	0.51	-	0.97	<0.03	0.05		<0.03	mg/kg	TM4/PM8
Acenaphthene #	0.49	<0.50 AC	0.26	0.49	8.54	-	2.48	<0.05	0.38		<0.05	mg/kg	TM4/PM8
Fluorene #	0.38	<0.40 AC	0.25	0.38	6.17	-	2.68	<0.04	0.28		<0.04	mg/kg	TM4/PM8
Phenanthrene #	2.66	1.07 AC	2.19	4.14	>>45.71	-	25.74	0.26	1.92		<0.03	mg/kg	TM4/PM8
Anthracene #	0.77	<0.40 AC	0.63	0.98	15.78	-	8.33	0.09	0.52		<0.04	mg/kg	TM4/PM8
Fluoranthene #	4.70	1.32 AC	3.35	5.71	>>60.10	-	33.98	0.39	2.67		<0.03	mg/kg	TM4/PM8
Pyrene #	4.03	1.33 AC	3.10	5.25	>>48.86	-	32.57	0.42	2.43		<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	2.03	0.88 AC	1.59	2.49	>>26.46	-	16.59	0.20	1.19		<0.06	mg/kg	TM4/PM8
Chrysene #	2.13	1.15 AC	1.70	2.71	>>26.07	-	15.72	0.20	1.28		<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	3.31	1.25 AC	2.69	4.28	40.12	-	24.68	0.28	2.00		<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	2.06	0.66 AC	1.65	2.63	>>23.72	-	16.15	0.19	1.24		<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	1.07	<0.40 AC	0.95	1.55	13.80	-	9.45	0.11	0.75		<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.15	<0.40 AC	0.21	0.23	2.86	-	1.65	<0.04	0.14		<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	1.10	0.51 AC	0.96	1.51	13.99	-	9.81	0.12	0.74		<0.04	mg/kg	TM4/PM8
PAH 16 Total	25.4	8.2 AC	19.9	32.9	334.6	-	202.2	2.3	15.9		<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	2.38	0.90 AC	1.94	3.08	28.89	-	17.77	0.20	1.44		<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.93	0.35 AC	0.75	1.20	11.23	-	6.91	0.08	0.56		<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	98	101 AC	94	99	102	-	102	92	98		<0	%	TM4/PM8
VOC TICs	-	-	-	-	-	-	-	-	ND			None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	-	-	-	-	-	-	-	<2		<2	ug/kg	TM15/PM10
Benzene #	-	-	-	-	-	-	-	-	<3		<3	ug/kg	TM15/PM10
Toluene #	-	-	-	-	-	-	-	-	<3		<3	ug/kg	TM15/PM10
Ethylbenzene #	-	-	-	-	-	-	-	-	<3		<3	ug/kg	TM15/PM10
m/p-Xylene #	-	-	-	-	-	-	-	-	<5		<5	ug/kg	TM15/PM10
o-Xylene #	-	-	-	-	-	-	-	-	<3		<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	-	-	-	-	-	87		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	-	-	-	-	-	79		<0	%	TM15/PM10
SVOC TICs	-	-	-	-	-	-	-	-	ND			None	TM16/PM8

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	130-132	142-144	154-156	166-168	169-171	175-177	178-180	184-186	193-195				
Sample ID	WS02	WS04	WS06	WS07A	WS08	WS08	WS09	WS10	WS11				
Depth	0.50	0.50	0.50	1.00	0.50	2.50	0.50	1.20	1.50				
COC No / misc										Please see attached notes for all abbreviations and acronyms			
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T				
Sample Date	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023	13/05/2023				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023		LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	10.0	<0.2	<0.2	-	-	-	2.8	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	38	4	5	-	-	-	11	<4	<4		<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	69	11	33	-	-	-	14	<7	<7		<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	577	45	205	-	-	-	45	<7	<7		<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-35 (EH+HS_CU_1D_AL)	694	60	243	-	-	-	73	<19	<19		<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	<0.1 SV	<0.1	<0.1 SV	-	-	-	<0.1	<0.1	<0.1		<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	2.4	<0.2	1.0	-	-	-	2.1	<0.2	<0.2		<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	32	8	10	-	-	-	41	<4	<4		<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	125	39	65	-	-	-	385	<7	<7		<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	1270	183	589	-	-	-	898	<7	<7		<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-35 (EH+HS_CU_1D_AR) #	1429	230	665	-	-	-	1326	<19	<19		<19	mg/kg	TM5/TM36/PM8/PM12/PM16
Total aliphatics and aromatics(C5-35) (EH+HS_CU_1D_Total)	2123	290	908	-	-	-	1399	<38	<38		<38	mg/kg	TM5/TM36/PM8/PM12/PM16
MTBE #	<5 SV	<5	<5 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
Benzene #	<5 SV	<5	<5 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
Toluene #	<5 SV	<5	<5 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
Ethylbenzene #	<5 SV	7	<5 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
m/p-Xylene #	<5 SV	13	<5 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
o-Xylene #	<5 SV	<5	7 SV	-	-	-	<5	<5	-		<5	ug/kg	TM36/PM12
Natural Moisture Content	13.8	12.4	23.0	13.7	9.4	-	22.9	35.7	27.7		<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3		<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.6605	0.5182	1.6551	0.1884	0.0462	0.0590	0.0459	0.3179	0.0481		<0.0015	g/l	TM38/PM20
Organic Matter	4.8	2.5	5.1	10.2	4.7	-	18.9	7.8	2.0		<0.2	%	TM21/PM24
pH #	7.54	7.65	7.33	8.50	8.44	8.28	8.33	7.85	7.88		<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	NAD	NAD	NAD	-	NAD	NAD	NAD			None	Subcontracted
Asbestos PCOM Quantification*	-	-	-	-	-	-	-	-	-		<0.001	mass %	Subcontracted
Asbestos Gravimetric Quantification*	-	-	-	-	-	-	-	-	-			mass %	Subcontracted

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Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

SVOC Report : **Solid**

EMT Sample No.	31-33	34-36	46-48	52-54	193-195								
Sample ID	HP11	HP12	TP01	TP02	WS11								
Depth	0.50	0.50	1.00	0.50	1.50								
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T								
Sample Date	11/05/2023	12/05/2023	11/05/2023	11/05/2023	13/05/2023								
Sample Type	Soil	Soil	Soil	Soil	Soil								
Batch Number	1	1	1	1	1								
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023								
SVOC MS													
Phenols													
2-Chlorophenol #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	835	<10	<10						<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	1311	<10	<10						<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Methylphenol	429	<10	1726	<10	<10						<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Phenol #	383	<10	1242	<10	<10						<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	3627	53	9640	349	23						<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	3913	146	316	354	<100						<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100						<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	672	166	159	171	<100						<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100						<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100						<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100	<100	<100	<100						<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Bromophenylphenylether #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Carbazole	<10	69	16162	473	50						<10	ug/kg	TM16/PM8
Dibenzofuran #	<10	45	9531	299	31						<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Hexachlorobutadiene #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Isophorone #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Nitrobenzene #	<10	<10	<10	<10	<10						<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	121	119	115	115	118						<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	103	114	117	109	117						<0	%	TM16/PM8

Please see attached notes for all abbreviations and acronyms

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7686

VOC Report : **Solid**

EMT Sample No.	31-33	34-36	46-48	52-54	193-195							
Sample ID	HP11	HP12	TP01	TP02	WS11							
Depth	0.50	0.50	1.00	0.50	1.50							
COC No / misc												
Containers	V J T	V J T	V J T	V J T	V J T							
Sample Date	11/05/2023	12/05/2023	11/05/2023	11/05/2023	13/05/2023							
Sample Type	Soil	Soil	Soil	Soil	Soil							
Batch Number	1	1	1	1	1							
Date of Receipt	16/05/2023	16/05/2023	16/05/2023	16/05/2023	16/05/2023							

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Chloromethane #	11 SV	8	<3	<3	<3						<3	ug/kg	TM15/PM10
Vinyl Chloride	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15_A/PM10
Bromomethane	<1 SV	<1	<1	<1	<1						<1	ug/kg	TM15/PM10
Chloroethane #	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6 SV	<6	<6	<6	<6						<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7 SV	<7	<7	<7	<7						<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Bromochloromethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Chloroform #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Benzene #	<3 SV	<3	9	<3	<3						<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6 SV	<6	<6	<6	<6						<6	ug/kg	TM15/PM10
Dibromomethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Toluene #	<3 SV	<3	17	<3	<3						<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3 SV	<3	<3	<3	10						<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Chlorobenzene #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Ethylbenzene #	<3 SV	<3	22	<3	<3						<3	ug/kg	TM15/PM10
m/p-Xylene #	<5 SV	<5	79	<5	<5						<5	ug/kg	TM15/PM10
o-Xylene #	20 SV	<3	34	<3	<3						<3	ug/kg	TM15/PM10
Styrene	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15_A/PM10
Bromoform	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Bromobenzene	<2 SV	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Propylbenzene #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	106 SV	<3	30	<3	<3						<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3 SV	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5 SV	<5	<5	<5	<5						<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	459 SV	<6	129	8	<6						<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
4-Isopropyltoluene	314 SV	<4	22	<4	<4						<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
n-Butylbenzene	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7 SV	<7	<7	<7	<7						<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4 SV	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Naphthalene	<27 SV	<27	861	165	<27						<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7 SV	<7	<7	<7	<7						<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	38 SV	75	67	72	87						<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	56 SV	72	61	69	79						<0	%	TM15/PM10

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

Job number: 23/7686
Sample number: 31
Sample identity: HP11
Sample depth: 0.50
Sample Type: Soil
Units: ug/kg

Method: VOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
	Carbonic acid, decyl vinyl ester	6.384	86	135
17302-28-2	Nonane, 2,6-dimethyl-	6.432	90	613
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	6.835	93	880
629-96-9	1-Eicosanol	6.878	87	2716
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	7.027	91	1519
488-23-3	Benzene, 1,2,3,4-tetramethyl-	7.233	90	2604
95-93-2	Benzene, 1,2,4,5-tetramethyl-	7.263	95	1804
13632-94-5	Benzene, 1,4-diethyl-2-methyl-	7.663	86	5258
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	8.000	93	4765

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All solid results are expressed on a dry weight basis unless stated otherwise.

Job number: 23/7686
Sample number: 32
Sample identity: HP11
Sample depth: 0.50
Sample Type: Soil
Units: ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.527	93	2137
99-87-6	p-Cymene	5.771	91	2183
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	5.884	94	590
95-93-2	Benzene, 1,2,4,5-tetramethyl-	5.914	95	1018
3333-13-9	Benzene, 1-methyl-4-(2-propenyl)-	6.066	89	1955
2050-24-0	Benzene, 1,3-diethyl-5-methyl-	6.106	94	2621
768-00-3	Benzene, (1-methyl-1-propenyl)-, (E)-	6.146	89	4364
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	6.187	93	2145
17059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethyl-	6.479	90	5620
4706-89-2	Benzene, 2,4-dimethyl-1-(1-methylethyl)-	6.574	92	10531
700-12-9	Benzene, pentamethyl-	6.649	95	2585
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	6.957	95	11862
91-57-6	Naphthalene, 2-methyl-	7.357	94	25029
54340-86-2	Benzene, 4-(2-butenyl)-1,2-dimethyl-, (E)-	7.450	86	5604
80655-44-3	Decahydro-1,1,4a,5,6-pentamethylnaphthalene	7.938	96	19355
581-42-0	Naphthalene, 2,6-dimethyl-	7.979 - 8.093	96,97	72569
571-61-9	Naphthalene, 1,5-dimethyl-	8.073	97	42548
313253-65-5	2-Pentanone, 4-cyclohexylidene-3,3-diethyl-	8.255	89	32101
3891-99-4	2,6,10-Trimethyltridecane	8.408	91	55487
2131-42-2	Naphthalene, 1,4,6-trimethyl-	8.665 - 9.030	95,96	23401
2245-38-7	Naphthalene, 1,6,7-trimethyl-	8.699 - 8.836	98,98,98,98	129495
829-26-5	Naphthalene, 2,3,6-trimethyl-	8.916	98	66697
643-93-6	1,1'-Biphenyl, 3-methyl-	9.053	91	13532
54774-89-9	Naphthalene, 2-methyl-1-propyl-	9.099	91	19710
529-05-5	Chamazulene	9.183	89	4105
3031-15-0	Naphthalene, 1,2,3,4-tetramethyl-	9.202 - 9.470	87,91,92,94	65719
3892-00-0	Pentadecane, 2,6,10-trimethyl-	9.403	93	20508
2717-39-7	1,4,5,8-Tetramethylnaphthalene	9.547	95	19762
613-33-2	4,4'-Dimethylbiphenyl	9.624	83	10267
7350-72-3	1,4-Methanonaphthalene,1,4-dihydro-9-((1-methylethylidene)-	9.772 - 9.871	84,86	13207

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Job number: 23/7686
Sample number: 32
Sample identity: HP11
Sample depth: 0.50
Sample Type: Soil
Units: ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
	anthracene, 1,2-dihydro-10-methyl-	10.147	92	16566
31317-07-4	1-Methyldibenzothiophene	10.324	95	30229
	Bicyclo[3.2.2]non-2-ene, 2-phenyl-	10.413	93	20275
832-69-9	Phenanthrene, 1-methyl-	10.512	81	13866
2531-84-2	Phenanthrene, 2-methyl-	10.531	93	8714
832-64-4	Phenanthrene, 4-methyl-	10.610	86	22535
89816-75-1	2,6-Dimethyldibenzothiophene	10.779	97	13938
1136-85-2	3,7-Dimethyldibenzothiophene	10.872 - 10.941	96,96	41809
16587-34-1	Naphtho[2,3-b]thiophene, 4,9-dimethyl-	10.972	81	13627
1576-67-6	Phenanthrene, 3,6-dimethyl-	11.034	94	17560
3674-66-6	Phenanthrene, 2,5-dimethyl-	11.111	91	20685
	5(10H)-Pyrido[3,4-b]quinolone, 7-methoxy-	11.268	81	16740
36093-99-9	4-Thiazolemethanol, 2-(4-chlorophenyl)-	11.728	90	5776
300389-62-2	Benz[d]isoxazol-4(5H)-one, 6,7-dihydro-3-methyl-6-phenyl-, oxime	13.439	93	3858
646-31-1	Tetracosane	14.824 - 15.188	96,96	4662
	2-(4a,8-Dimethyl-6-oxo-1,2,3,4,4a,5,6,8a-octahydro-naphthalen-2-yl)-propionaldehyde	15.033	84	3373
53584-60-4	28-Nor-17.alpha.(H)-hopane	15.551	90	20376
62016-79-9	Heptacosane, 1-chloro-	15.961	98	4237

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Job number: 23/7686
Sample number: 47
Sample identity: TP01
Sample depth: 1.00
Sample Type: Soil
Units: ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
92-52-4	Biphenyl	7.772	95	2197
1127-76-0	Naphthalene, 1-ethyl-	7.907	95	2849
581-42-0	Naphthalene, 2,6-dimethyl-	7.980	97	3630
582-16-1	Naphthalene, 2,7-dimethyl-	8.062 - 8.083	97,97	7646
829-26-5	Naphthalene, 2,3,6-trimethyl-	8.722	98	2398
2489-86-3	Naphthalene, 1-(2-propenyl)-	9.087	81	4727
7320-53-8	Dibenzofuran, 4-methyl-	9.260	93	8847
1730-37-6	9H-Fluorene, 1-methyl-	9.586	98	3187
486-25-9	9H-Fluoren-9-one	9.713	94	8888
132-65-0	Dibenzothiophene	9.832	95	13727
262-89-5	Dibenzo[a,e]cyclooctene	10.295	94	9489
2531-84-2	Phenanthrene, 2-methyl-	10.502 - 10.532	96,97	40691
613-12-7	Anthracene, 2-methyl-	10.571	96	7368
203-64-5	4H-Cyclopenta[def]phenanthrene	10.601	93	30466
84-65-1	9,10-Anthracenedione	10.756	93	5490
612-94-2	Naphthalene, 2-phenyl-	10.803	96	16694
3674-75-7	Phenanthrene, 9-ethyl-	10.911	90	2729
52251-71-5	Anthracene, 2-ethyl-	10.988	93	10742
1576-67-6	Phenanthrene, 3,6-dimethyl-	11.027 - 11.135	93,93	12010
452049-62-6	Spiro[cyclopropane-1,8'(1H')[3a.6]methano[3ah]cyclopentacycloocten]-10'-one, octahydro-, (3'as,6'R,9'ar)-	11.112	90	14017
205-39-0	Benzo(b)naphtho(1,2-d)furan	11.527	95	9878
313-80-4	Naphtho(2,1,8-def)quinoline	11.563	96	3856
243-17-4	11H-Benzo[b]fluorene	11.822	94	46353
2381-21-7	Pyrene, 1-methyl-	11.901 - 12.074	87,96	24977
33543-31-6	Fluoranthene, 2-methyl-	11.937	95	18244
3353-12-6	Pyrene, 4-methyl-	12.045	98	11407
479-79-8	11H-Benzo[a]fluoren-11-one	12.391	96	15219
195-19-7	Benzo[c]phenanthrene	12.578	90	15123
205-25-4	7H-Benzo[c]carbazole	13.088	94	8295
3351-28-8	Chrysene, 1-methyl-	13.448	96	22628

Job number: 23/7686
Sample number: 47
Sample identity: TP01
Sample depth: 1.00
Sample Type: Soil
Units: ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
64414-61-5	Azacyclotridecan-2-one, 1-(3-aminopropyl)-	13.560	90	11702
1705-85-7	Chrysene, 6-methyl-	13.616	95	9038
192-97-2	Benzo[e]pyrene	14.399 - 14.575	96,98	88070
3343-10-0	Benz[j]aceanthrylene, 3-methyl-	15.033	91	11371
955-66-8	5H-Dibenzo[c,f][1,2]diazepine, 3,8-dichloro-6,11-dihydro-	15.180	92	8516

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Job number: 23/7686
Sample number: 53
Sample identity: TP02
Sample depth: 0.50
Sample Type: Soil
Units: ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

CAS No.	Tentative Compound Identification	Retention Time (minutes)	% Match	Concentration
7320-53-8	Dibenzofuran, 4-methyl-	9.259	90	336
1430-97-3	9H-Fluorene, 2-methyl-	9.586	95	284
262-89-5	Dibenzo[a,e]cyclooctene	10.295	86	343
2531-84-2	Phenanthrene, 2-methyl-	10.522	96	665
779-02-2	Anthracene, 9-methyl-	10.571	96	514
203-64-5	4H-Cyclopenta[def]phenanthrene	10.600	93	1957
313-80-4	Naphtho(2,1,8-def)quinoline	11.563	92	396
243-42-5	Benzo[b]naphtho[2,3-d]furan	11.585	93	372
33543-31-6	Fluoranthene, 2-methyl-	11.721 - 11.815	96,96	3556
243-17-4	11H-Benzo[b]fluorene	11.894	92	1263
2381-21-7	Pyrene, 1-methyl-	11.937	95	961
3353-12-6	Pyrene, 4-methyl-	12.038	92	397
479-79-8	11H-Benzo[a]fluoren-11-one	12.376	91	518
191-30-0	1,2,9,10-Dibenzopyrene	12.635 - 13.543	83,96	1592
192-65-4	1,2:4,5-Dibenzopyrene	12.678	95	1397
5385-75-1	Dibenz(a,e)aceanthrylene	12.714	95	2233
	1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	13.032 - 13.080	95,97	1075
3351-28-8	Chrysene, 1-methyl-	13.439	98	946
192-97-2	Benzo[e]pyrene	14.559	96	3463

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: Groundtech Consulting Limited

Reference: GRO-22462

Location: Brunswick Mill

Contact: Jacob Roby

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	EPH Interpretation
23/7686	1	HP11	0.50	31-33	Degraded diesel, Possible lubricating oil & Possible tarmac/bitumen
23/7686	1	HP12	0.50	34-36	PAH's, Trace of possible degraded diesel, Possible lubricating oil & Tarmac/bitumen
23/7686	1	TP01	1.00	46-48	PAH's, Possible degraded diesel, Possible lubricating oil & Possible tarmac/bitumen
23/7686	1	TP02	0.50	52-54	PAH's, Possible lubricating oil, Trace of possible degraded diesel & Possible tarmac/bitumen
23/7686	1	WS01A	1.00	124-126	PAH's, Possible lubricating oil, Trace of possible degraded diesel & Possible tarmac/bitumen
23/7686	1	WS02	0.50	130-132	PAH's, Possible lubricating oil, Trace of possible degraded diesel & Possible tarmac/bitumen
23/7686	1	WS04	0.50	142-144	PAH's & Possible tarmac/bitumen
23/7686	1	WS06	0.50	154-156	PAH's & Trace of lubricating oil
23/7686	1	WS09	0.50	178-180	PAH's & Degraded kerosene
23/7686	1	WS10	1.20	184-186	No interpretation possible
23/7686	1	WS11	1.50	193-195	No interpretation possible

Client Name: Groundtech Consulting Limited

Reference: GRO-22462

Location: Brunswick Mill

Contact: Jacob Roby

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Method No.	NDP Reason
23/7686	1	HP11	0.50	31-33	TM73/PM11	Oily sample unsuitable for this test
23/7686	1	HP11	0.50	31-33	TM38/PM20	Sample contains compounds that interfere with this test

Client Name: Groundtech Consulting Limited

Reference: GRO-22462

Location: Brunswick Mill

Contact: Jacob Roby

Matrix : Solid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
23/7686	1	HP01	0.50	1-3	PAH	Sample holding time exceeded
23/7686	1	HP02	0.50	4-6	PAH	Sample holding time exceeded
23/7686	1	HP03	0.50	7-9	PAH	Sample holding time exceeded
23/7686	1	HP05	0.50	13-15	PAH	Sample holding time exceeded
23/7686	1	HP06	0.50	16-18	PAH	Sample holding time exceeded
23/7686	1	HP07	0.50	19-21	PAH	Sample holding time exceeded

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.

Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/7686

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

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STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x3 Dilution
AB	x5 Dilution
AC	x10 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/7686

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details	Yes		AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes

EMT Job No: 23/7686

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

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W: www.element.com

Groundtech Consulting Limited
PO Box 499
Manchester
United Kingdom
M28 8EE

Attention :	Jacob Roby
Date :	8th June, 2023
Your reference :	GRO-22462
Our reference :	Test Report 23/7677 Batch 1
Location :	Brunswick Mill
Date samples received :	16th May, 2023
Status :	Final Report
Issue :	1

Sixteen samples were received for analysis on 16th May, 2023 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Liza Klebe
Project Co-ordinator

Please include all sections of this report if it is reproduced

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/7677

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	4-6	28-30	40-42								LOD/LOR	Units	Method No.
Sample ID	BH01	BH02	BH03										
Depth	0.50	2.00	1.00										
COC No / misc													
Containers	V J T	V J T	V J T										
Sample Date	11/05/2023	11/05/2023	11/05/2023										
Sample Type	Soil	Soil	Soil										
Batch Number	1	1	1										
Date of Receipt	16/05/2023	16/05/2023	16/05/2023										
Arsenic #	7.7	8.6	8.2								<0.5	mg/kg	TM30/PM15
Cadmium #	<0.1	<0.1	<0.1								<0.1	mg/kg	TM30/PM15
Chromium #	44.8	42.1	33.9								<0.5	mg/kg	TM30/PM15
Copper #	28	32	19								<1	mg/kg	TM30/PM15
Lead #	82	77	123								<5	mg/kg	TM30/PM15
Mercury #	<0.1	0.3	0.2								<0.1	mg/kg	TM30/PM15
Nickel #	18.6	15.1	9.4								<0.7	mg/kg	TM30/PM15
Selenium #	<1	<1	<1								<1	mg/kg	TM30/PM15
Zinc #	62	78	54								<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene #	0.14	0.12	1.07								<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.08	0.11	0.17								<0.03	mg/kg	TM4/PM8
Acenaphthene #	0.36	0.07	1.31								<0.05	mg/kg	TM4/PM8
Fluorene #	0.24	0.08	1.22								<0.04	mg/kg	TM4/PM8
Phenanthrene #	2.42	0.85	9.76								<0.03	mg/kg	TM4/PM8
Anthracene #	0.62	0.40	1.63								<0.04	mg/kg	TM4/PM8
Fluoranthene #	3.61	1.41	9.46								<0.03	mg/kg	TM4/PM8
Pyrene #	3.31	1.24	8.95								<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	1.55	0.66	4.01								<0.06	mg/kg	TM4/PM8
Chrysene #	1.57	0.78	4.97								<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	2.62	1.34	6.73								<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	1.67	0.80	3.83								<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	0.94	0.52	2.33								<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	0.11	0.08	0.47								<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	0.85	0.53	2.38								<0.04	mg/kg	TM4/PM8
PAH 16 Total	20.1	9.0	58.3								<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	1.89	0.96	4.85								<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.73	0.38	1.88								<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	103	99	100								<0	%	TM4/PM8
Natural Moisture Content	13.1	17.9	14.2								<0.1	%	PM4/PM0
Hexavalent Chromium #	<0.3	<0.3	<0.3								<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.2677	0.6562	0.9272								<0.0015	g/l	TM38/PM20
Organic Matter	2.9	2.9	1.4								<0.2	%	TM21/PM24
pH #	11.63	8.80	9.13								<0.01	pH units	TM73/PM11
Asbestos Type*	NAD	NAD	NAD									None	Subcontracted

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/7677						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
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NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/7677

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All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

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LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/7677

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
Subcontracted	See attached subcontractor report for accreditation status and provider.					AR	

APPENDIX 5 - Geo-Environmental Testing Results (Groundwater)

Element Materials Technology
Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

P: +44 (0) 1244 833780
F: +44 (0) 1244 833781
W: www.element.com

Groundtech Consulting Limited
PO Box 499
Manchester
United Kingdom
M28 8EE

Attention :	Jacob Roby
Date :	6th July, 2023
Your reference :	GRO-22462
Our reference :	Test Report 23/10147 Batch 1
Location :	Brunswick Mill
Date samples received :	22nd June, 2023
Status :	Final Report
Issue :	1

Two samples were received for analysis on 22nd June, 2023 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Phil Sommerton BSc
Senior Project Manager

Please include all sections of this report if it is reproduced

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/10147

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, HN=$HN0_3$

Please see attached notes for all abbreviations and acronyms

EMT Sample No.	1-8	9									LOD/LOR	Units	Method No.
Sample ID	BH01	BH03											
Depth													
COC No / misc													
Containers	V H HNUF N Z P G	P											
Sample Date	19/06/2023	19/06/2023											
Sample Type	Ground Water	Ground Water											
Batch Number	1	1											
Date of Receipt	22/06/2023	22/06/2023											
Dissolved Arsenic #	<2.5	2.7									<2.5	ug/l	TM30/PM14
Dissolved Boron	154	126									<12	ug/l	TM30/PM14
Dissolved Cadmium #	<0.5	0.5									<0.5	ug/l	TM30/PM14
Total Dissolved Chromium #	<1.5	<1.5									<1.5	ug/l	TM30/PM14
Dissolved Copper #	<7	<7									<7	ug/l	TM30/PM14
Dissolved Lead #	<5	<5									<5	ug/l	TM30/PM14
Dissolved Mercury #	<1	<1									<1	ug/l	TM30/PM14
Dissolved Nickel #	10	10									<2	ug/l	TM30/PM14
Dissolved Selenium #	<3	<3									<3	ug/l	TM30/PM14
Dissolved Zinc #	5	14562 AB									<3	ug/l	TM30/PM14
PAH MS													
Naphthalene #	<0.1	-									<0.1	ug/l	TM4/PM30
Acenaphthylene #	0.040	-									<0.005	ug/l	TM4/PM30
Acenaphthene #	0.060	-									<0.005	ug/l	TM4/PM30
Fluorene #	0.031	-									<0.005	ug/l	TM4/PM30
Phenanthrene #	0.364	-									<0.005	ug/l	TM4/PM30
Anthracene #	0.093	-									<0.005	ug/l	TM4/PM30
Fluoranthene #	0.839	-									<0.005	ug/l	TM4/PM30
Pyrene #	0.883	-									<0.005	ug/l	TM4/PM30
Benzo(a)anthracene #	0.447	-									<0.005	ug/l	TM4/PM30
Chrysene #	0.405	-									<0.005	ug/l	TM4/PM30
Benzo(bk)fluoranthene #	0.702	-									<0.008	ug/l	TM4/PM30
Benzo(a)pyrene #	0.402	-									<0.005	ug/l	TM4/PM30
Indeno(123cd)pyrene #	0.233	-									<0.005	ug/l	TM4/PM30
Dibenzo(ah)anthracene #	0.056	-									<0.005	ug/l	TM4/PM30
Benzo(ghi)perylene #	0.259	-									<0.005	ug/l	TM4/PM30
PAH 16 Total #	4.814	-									<0.173	ug/l	TM4/PM30
Benzo(b)fluoranthene	0.505	-									<0.008	ug/l	TM4/PM30
Benzo(k)fluoranthene	0.197	-									<0.008	ug/l	TM4/PM30
PAH Surrogate % Recovery	85	-									<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.1	-									<0.1	ug/l	TM15/PM10
Benzene #	<0.5	-									<0.5	ug/l	TM15/PM10
Toluene #	<5	-									<5	ug/l	TM15/PM10
Ethylbenzene #	<1	-									<1	ug/l	TM15/PM10
m/p-Xylene #	<2	-									<2	ug/l	TM15/PM10
o-Xylene #	<1	-									<1	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	84	-									<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	102	-									<0	%	TM15/PM10

Element Materials Technology

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/10147

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
$H=H_2SO_4$, Z=ZnAc, N=NaOH, $HN=HN0_3$

EMT Sample No.	1-8	9											
Sample ID	BH01	BH03											
Depth													
COC No / misc													
Containers	V H HNUF N Z P G	P											
Sample Date	19/06/2023	19/06/2023											
Sample Type	Ground Water	Ground Water											
Batch Number	1	1											
Date of Receipt	22/06/2023	22/06/2023											

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 #	<10	-									<10	ug/l	TM36/PM12
>C6-C8 #	<10	-									<10	ug/l	TM36/PM12
>C8-C10 #	<10	-									<10	ug/l	TM36/PM12
>C10-C12 #	<5	-									<5	ug/l	TM5/PM16/PM30
>C12-C16 #	<10	-									<10	ug/l	TM5/PM16/PM30
>C16-C21 #	<10	-									<10	ug/l	TM5/PM16/PM30
>C21-C35 #	940	-									<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-35 #	940	-									<10	ug/l	TM5/TM36/PM12/PM16/PM30
Aromatics													
>C5-EC7 #	<10	-									<10	ug/l	TM36/PM12
>EC7-EC8 #	<10	-									<10	ug/l	TM36/PM12
>EC8-EC10 #	<10	-									<10	ug/l	TM36/PM12
>EC10-EC12 #	<5	-									<5	ug/l	TM5/PM16/PM30
>EC12-EC16 #	<10	-									<10	ug/l	TM5/PM16/PM30
>EC16-EC21 #	<10	-									<10	ug/l	TM5/PM16/PM30
>EC21-EC35 #	<10	-									<10	ug/l	TM5/PM16/PM30
Total aromatics C5-35 #	<10	-									<10	ug/l	TM5/TM36/PM12/PM16/PM30
Total aliphatics and aromatics(C5-35) #	940	-									<10	ug/l	TM5/TM36/PM12/PM16/PM30
Sulphate as SO4 #	694.7	559.7									<0.5	mg/l	TM38/PM0
Hexavalent Chromium	<0.006	<0.006									<0.006	mg/l	TM38/PM0
Total Alkalinity as CaCO3 #	480	198									<1	mg/l	TM75/PM0
Dissolved Organic Carbon #	7	15									<2	mg/l	TM60/PM0
pH #	7.74	6.30									<0.01	pH units	TM73/PM0
Total Organic Carbon #	20_{AA}	-									<2	mg/l	TM60/PM0

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/10147

SVOC Report : **Liquid**

EMT Sample No.	1-8												
Sample ID	BH01												
Depth													
COC No / misc													
Containers	V H HNUF N Z P G												
Sample Date	19/06/2023												
Sample Type	Ground Water												
Batch Number	1												
Date of Receipt	22/06/2023												

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
SVOC MS													
Phenols													
2-Chlorophenol #	<1										<1	ug/l	TM16/PM30
2-Methylphenol #	<0.5										<0.5	ug/l	TM16/PM30
2-Nitrophenol	<0.5										<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol #	<0.5										<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol	<1										<1	ug/l	TM16/PM30
2,4,5-Trichlorophenol #	<0.5										<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol	<1										<1	ug/l	TM16/PM30
4-Chloro-3-methylphenol #	<0.5										<0.5	ug/l	TM16/PM30
4-Methylphenol	<1										<1	ug/l	TM16/PM30
4-Nitrophenol	<10										<10	ug/l	TM16/PM30
Pentachlorophenol	<1										<1	ug/l	TM16/PM30
Phenol	<1										<1	ug/l	TM16/PM30
PAHs													
2-Chloronaphthalene #	<1										<1	ug/l	TM16/PM30
2-Methylnaphthalene #	<1										<1	ug/l	TM16/PM30
Phthalates													
Bis(2-ethylhexyl) phthalate	<5										<5	ug/l	TM16/PM30
Butylbenzyl phthalate	<1										<1	ug/l	TM16/PM30
Di-n-butyl phthalate #	<1.5										<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate	<1										<1	ug/l	TM16/PM30
Diethyl phthalate #	1										<1	ug/l	TM16/PM30
Dimethyl phthalate	<1										<1	ug/l	TM16/PM30
Other SVOCs													
1,2-Dichlorobenzene #	<1										<1	ug/l	TM16/PM30
1,2,4-Trichlorobenzene #	<1										<1	ug/l	TM16/PM30
1,3-Dichlorobenzene #	<1										<1	ug/l	TM16/PM30
1,4-Dichlorobenzene #	<1										<1	ug/l	TM16/PM30
2-Nitroaniline	<1										<1	ug/l	TM16/PM30
2,4-Dinitrotoluene #	<0.5										<0.5	ug/l	TM16/PM30
2,6-Dinitrotoluene	<1										<1	ug/l	TM16/PM30
3-Nitroaniline	<1										<1	ug/l	TM16/PM30
4-Bromophenylphenylether #	<1										<1	ug/l	TM16/PM30
4-Chloroaniline	<1										<1	ug/l	TM16/PM30
4-Chlorophenylphenylether #	<1										<1	ug/l	TM16/PM30
4-Nitroaniline	<0.5										<0.5	ug/l	TM16/PM30
Azobenzene #	<0.5										<0.5	ug/l	TM16/PM30
Bis(2-chloroethoxy)methane #	<0.5										<0.5	ug/l	TM16/PM30
Bis(2-chloroethyl)ether #	<1										<1	ug/l	TM16/PM30
Carbazole #	<0.5										<0.5	ug/l	TM16/PM30
Dibenzofuran #	<0.5										<0.5	ug/l	TM16/PM30
Hexachlorobenzene #	<1										<1	ug/l	TM16/PM30
Hexachlorobutadiene #	<1										<1	ug/l	TM16/PM30
Hexachlorocyclopentadiene	<1										<1	ug/l	TM16/PM30
Hexachloroethane #	<1										<1	ug/l	TM16/PM30
Isophorone #	<0.5										<0.5	ug/l	TM16/PM30
N-nitrosodi-n-propylamine #	<0.5										<0.5	ug/l	TM16/PM30
Nitrobenzene #	<1										<1	ug/l	TM16/PM30
Surrogate Recovery 2-Fluorobiphenyl	101										<0	%	TM16/PM30
Surrogate Recovery p-Terphenyl-d14	129										<0	%	TM16/PM30

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/10147

VOC Report : **Liquid**

EMT Sample No.	1-8												
Sample ID	BH01												
Depth													
COC No / misc													
Containers	V H HNUF N Z P G												
Sample Date	19/06/2023												
Sample Type	Ground Water												
Batch Number	1												
Date of Receipt	22/06/2023												

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2										<2	ug/l	TM15/PM10
Methyl Tertiary Butyl Ether #	<0.1										<0.1	ug/l	TM15/PM10
Chloromethane #	<3										<3	ug/l	TM15/PM10
Vinyl Chloride #	<0.1										<0.1	ug/l	TM15/PM10
Bromomethane	<1										<1	ug/l	TM15/PM10
Chloroethane #	<3										<3	ug/l	TM15/PM10
Trichlorofluoromethane #	<3										<3	ug/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<3										<3	ug/l	TM15/PM10
Dichloromethane (DCM) #	<3										<3	ug/l	TM15/PM10
trans-1-2-Dichloroethene #	<3										<3	ug/l	TM15/PM10
1,1-Dichloroethane #	<3										<3	ug/l	TM15/PM10
cis-1-2-Dichloroethene #	<3										<3	ug/l	TM15/PM10
2,2-Dichloropropane	<1										<1	ug/l	TM15/PM10
Bromochloromethane #	<2										<2	ug/l	TM15/PM10
Chloroform #	<2										<2	ug/l	TM15/PM10
1,1,1-Trichloroethane #	<2										<2	ug/l	TM15/PM10
1,1-Dichloropropene #	<3										<3	ug/l	TM15/PM10
Carbon tetrachloride #	<2										<2	ug/l	TM15/PM10
1,2-Dichloroethane #	<2										<2	ug/l	TM15/PM10
Benzene #	<0.5										<0.5	ug/l	TM15/PM10
Trichloroethene (TCE) #	<3										<3	ug/l	TM15/PM10
1,2-Dichloropropane #	<2										<2	ug/l	TM15/PM10
Dibromomethane #	<3										<3	ug/l	TM15/PM10
Bromodichloromethane #	<2										<2	ug/l	TM15/PM10
cis-1-3-Dichloropropene	<2										<2	ug/l	TM15/PM10
Toluene #	<5										<5	ug/l	TM15/PM10
trans-1-3-Dichloropropene	<2										<2	ug/l	TM15/PM10
1,1,2-Trichloroethane #	<2										<2	ug/l	TM15/PM10
Tetrachloroethene (PCE) #	<3										<3	ug/l	TM15/PM10
1,3-Dichloropropane #	<2										<2	ug/l	TM15/PM10
Dibromochloromethane #	<2										<2	ug/l	TM15/PM10
1,2-Dibromoethane #	<2										<2	ug/l	TM15/PM10
Chlorobenzene #	<2										<2	ug/l	TM15/PM10
1,1,1,2-Tetrachloroethane #	<2										<2	ug/l	TM15/PM10
Ethylbenzene #	<1										<1	ug/l	TM15/PM10
m/p-Xylene #	<2										<2	ug/l	TM15/PM10
o-Xylene #	<1										<1	ug/l	TM15/PM10
Styrene	<2										<2	ug/l	TM15/PM10
Bromoform #	<2										<2	ug/l	TM15/PM10
Isopropylbenzene #	<3										<3	ug/l	TM15/PM10
1,1,2,2-Tetrachloroethane	<4										<4	ug/l	TM15/PM10
Bromobenzene #	<2										<2	ug/l	TM15/PM10
1,2,3-Trichloropropane #	<3										<3	ug/l	TM15/PM10
Propylbenzene #	<3										<3	ug/l	TM15/PM10
2-Chlorotoluene #	<3										<3	ug/l	TM15/PM10
1,3,5-Trimethylbenzene #	<3										<3	ug/l	TM15/PM10
4-Chlorotoluene #	<3										<3	ug/l	TM15/PM10
tert-Butylbenzene #	<3										<3	ug/l	TM15/PM10
1,2,4-Trimethylbenzene #	<3										<3	ug/l	TM15/PM10
sec-Butylbenzene #	<3										<3	ug/l	TM15/PM10
4-Isopropyltoluene #	<3										<3	ug/l	TM15/PM10
1,3-Dichlorobenzene #	<3										<3	ug/l	TM15/PM10
1,4-Dichlorobenzene #	<3										<3	ug/l	TM15/PM10
n-Butylbenzene #	<3										<3	ug/l	TM15/PM10
1,2-Dichlorobenzene #	<3										<3	ug/l	TM15/PM10
1,2-Dibromo-3-chloropropane	<2										<2	ug/l	TM15/PM10
1,2,4-Trichlorobenzene	<3										<3	ug/l	TM15/PM10
Hexachlorobutadiene	<3										<3	ug/l	TM15/PM10
Naphthalene	<2										<2	ug/l	TM15/PM10
1,2,3-Trichlorobenzene	<3										<3	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	84										<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	102										<0	%	TM15/PM10

Client Name: Groundtech Consulting Limited

Reference: GRO-22462

Location: Brunswick Mill

Contact: Jacob Roby

Matrix : Liquid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	EPH Interpretation
23/10147	1	BH01		1-8	Possible lubricating oil

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/10147						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/10147

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x4 Dilution
AB	x10 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/10147

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				

EMT Job No: 23/10147

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.	Yes			
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM75	Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			

APPENDIX 6 - Geotechnical Testing Results

Element Materials Technology
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Zone 3
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Deeside
CH5 2UA

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F: +44 (0) 1244 833781
W: www.element.com

Groundtech Consulting Limited
PO Box 499
Manchester
United Kingdom
M28 8EE

Attention :	Jacob Roby
Date :	7th June, 2023
Your reference :	GRO-22462
Our reference :	Test Report 23/8536 Batch 1
Location :	Brunswick Mill
Date samples received :	27th May, 2023
Status :	Final Report
Issue :	2

Three samples were received for analysis on 27th May, 2023 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:

Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby
EMT Job No: 23/8536

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1	2	3									
Sample ID	BH1	BH2	BH3									
Depth	14.00	15.00	18.00									
COC No / misc												
Containers	T	T	T									
Sample Date	11/05/2023	11/05/2023	11/05/2023									
Sample Type	Soil	Soil	Soil									
Batch Number	1	1	1									
Date of Receipt	27/05/2023	27/05/2023	27/05/2023									

Please see attached notes for all abbreviations and acronyms

											LOD/LOR	Units	Method No.
Sulphate as SO4 (2:1 Ext) #	0.0406	0.0987	0.0385								<0.0015	g/l	TM38/PM20
pH #	8.76	8.75	8.79								<0.01	pH units	TM73/PM11

Please include all sections of this report if it is reproduced
All solid results are expressed on a dry weight basis unless stated otherwise.

Client Name: Groundtech Consulting Limited
Reference: GRO-22462
Location: Brunswick Mill
Contact: Jacob Roby

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for job 23/8536						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/8536

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.
Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.
Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 23/8536

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/SANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No

APPENDIX 7 - Interim Gas Monitoring Results

PERMANENT GROUND GAS MONITORING FORM

GROUNDTECH CONSULTING

SITE NAME:	*BRUNSWICK MILL*				***ENGINEER:***	*William Sandiford Mitchell*						
CLIENT:	*CIVIC ENGINEERS*				***DATE:***	*13/06/2023*						
JOB NO:	*GRO-22462*											
Pressure Trend:	*Steady*	***Weather:***	*Clear*			***Equipment:***	*GFM 436*					

Ambient:	O_2 (%v/v)	CH_4 (%v/v)	CO_2 (%v/v)	LEL	H_2S (ppm)	CO (ppm)
Start	20.8	0.0	0.0	0.0	0.0	0.0
Finish	20.8	0.0	0.0	0.0	0.0	0.0

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q_{hg} CO_2 (l/hr)	Q_{hg} CH_4 (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	LNAPL (Y/N)	DNAPL (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady								
BH01	6.3	6.3	0.55	0.0	0.0	0.0	5.2	0.5	0.8	19.7	0.0	0.0	0.0	0.0	0.3276	0.0000	1007	-	N	N/A	N/A	17.26
BH02	0.0	0.0	0.00	0.0	0.0	0.0	0.6	0.4	20.0	20.8	0.0	0.0	0.0	0.0	0.0006	0.0000	1007	-	N	N/A	N/A	17.27
BH03S	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20.3	20.3	0.0	0.0	0.0	0.0	0.0000	0.0000	1006	-	N	N/A	N/A	NGW
BH03D	0.0	0.0	0.00	0.0	0.0	0.0	3.4	3.4	13.1	13.1	0.0	0.0	0.0	0.0	0.0034	0.0000	1006	-	N	N/A	N/A	18.71
WS02A	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	13.6	13.6	0.0	0.0	0.0	0.0	0.0000	0.0000	1007	-	N	N/A	N/A	NGW
WS05	0.0	0.0	0.00	0.0	0.0	0.0	9.1	0.3	10.9	21.3	0.0	0.0	0.0	0.0	0.0091	0.0000	1008	-	N	N/A	N/A	NGW
WS07A	0.0	0.0	0.00	0.0	0.0	1.5	1.5	1.4	20.1	19.5	0.0	0.0	0.0	0.0	0.0015	0.0000	1007	-	N	N/A	N/A	NGW
WS08	0.0	0.0	0.00	0.0	0.0	2.9	2.9	2.9	12.5	12.5	0.0	0.0	0.0	0.0	0.0029	0.0000	1007	-	N	N/A	N/A	NGW

Notes:

PERMANENT GROUND GAS MONITORING FORM

GROUNDTECH CONSULTING

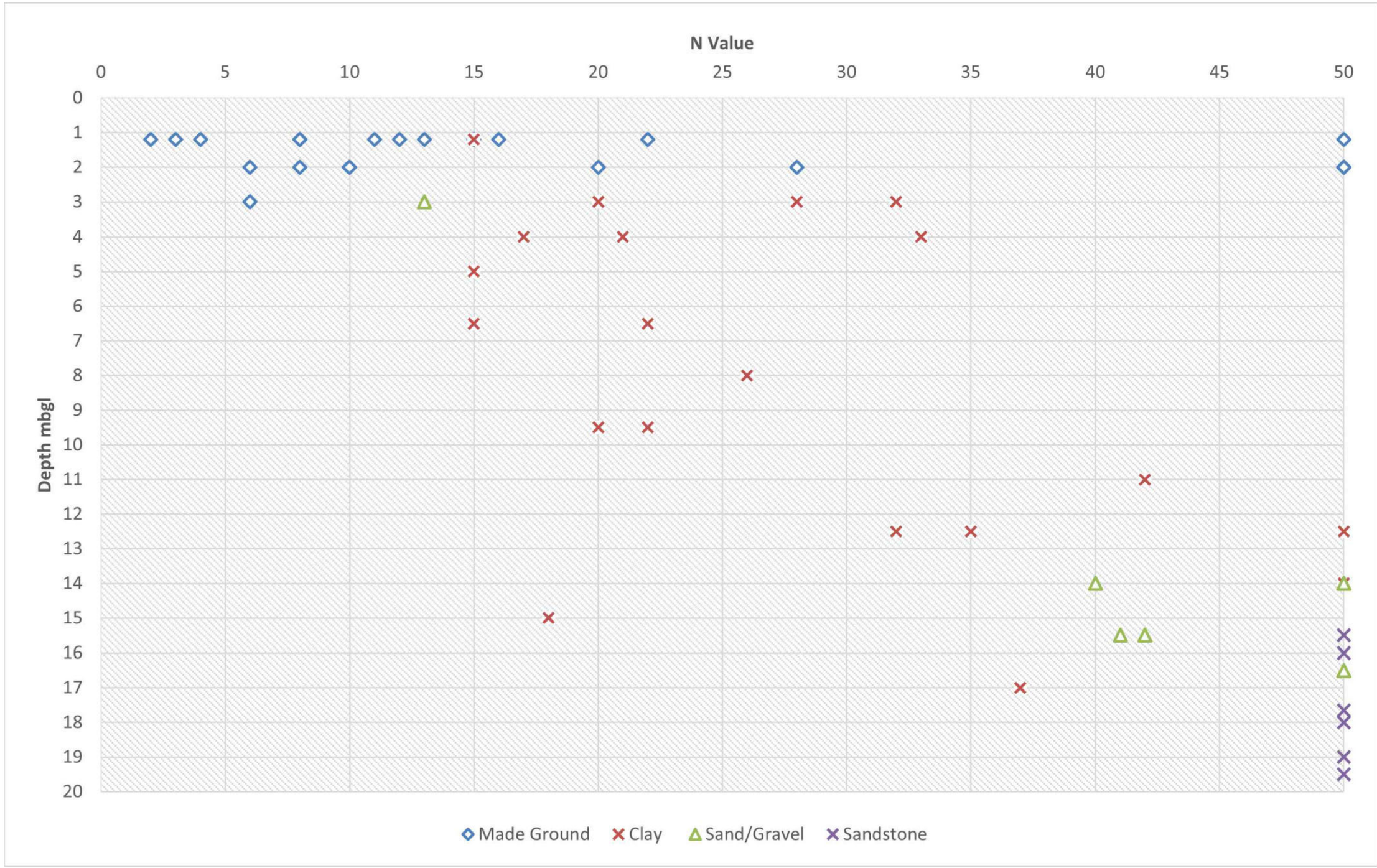
SITE NAME:	*BRUNSWICK MILL*				***ENGINEER:***	*William Sandiford Mitchell*						
CLIENT:	*CIVIC ENGINEERS*				***DATE:***	*19/06/2023*						
JOB NO:	*GRO-22462*											
Pressure Trend:	*Steady*	***Weather:***	*Overcast*			***Equipment:***	*GFM 436*					

Ambient:	O_2 (%v/v)	CH_4 (%v/v)	CO_2 (%v/v)	LEL	H_2S (ppm)	CO (ppm)
Start	20.8	0.0	0.0	0.0	0.0	0.0
Finish	20.8	0.0	0.0	0.0	0.0	0.0

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q_{hg} CO_2 (l/hr)	Q_{hg} CH_4 (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	LNAPL (Y/N)	DNAPL (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady								
BH01	0.0	0.0	0.00	0.0	0.0	0.0	6.0	4.2	1.5	6.7	0.0	0.0	0.0	0.0	0.0060	0.0000	1000	-	N	N/A	N/A	17.26
BH02	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.2	20.8	20.2	0.0	0.0	0.0	0.0	0.0003	0.0000	1000	-	N	N/A	N/A	17.79
BH03S	0.0	0.0	0.00	0.0	0.0	0.0	0.3	0.3	20.2	20.3	0.0	0.0	0.0	0.0	0.0003	0.0000	1000	-	N	N/A	N/A	NGW
BH03D	0.0	0.0	0.00	0.0	0.0	0.0	0.4	0.0	20.6	19.9	0.0	0.0	0.0	0.0	0.0004	0.0000	1000	-	N	N/A	N/A	18.73
WS02A	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	13.4	13.6	0.0	0.0	0.0	0.0	0.0000	0.0000	1000	-	N	N/A	N/A	NGW
WS05	0.0	0.0	0.00	0.0	0.0	0.0	9.2	9.2	11.4	11.4	0.0	0.0	0.0	0.0	0.0092	0.0000	1000	-	N	N/A	N/A	NGW
WS07A	0.0	0.0	0.00	0.0	0.0	0.0	1.9	1.8	19.4	19.6	0.0	0.0	0.0	0.0	0.0019	0.0000	1001	-	N	N/A	N/A	NGW
WS08	0.0	0.0	0.00	0.0	0.0	0.0	2.9	2.9	12.4	12.5	0.0	0.0	0.0	0.0	0.0029	0.0000	1000	-	N	N/A	N/A	2.31

Notes:

APPENDIX 8 - Generalised Ground Model



GROUNDTECH CONSULTING

CLIENT	ARROWSMITH INVESTMENT LIMITED
PROJECT TITLE	BRUNSWICK MILL
PLAN TITLE	GENERALISED GROUND MODEL
DATE	JUNE 2023
SCALE	NTS
PLAN NUMBER	GRO-22462-P05

Rev.	Details	Date

Status	
Preliminary	
Draft	
Issued	●
For Comment	
Approved	

Notes

APPENDIX 9 - Generic Screening Values (Residential without Plant Uptake)

Generic Assessment Criteria (GAC)

GROUNDTECH CONSULTING

Proposed End Use	Unit	Residential with Plant Uptake			Residential without plant uptake			Source
SOM	%	1	2.5	6	1	2.5	6	
Arsenic	mg/kg	37	37	37	40	40	40	LQM S4ULs
Beryllium	mg/kg	1.7	1.7	1.7	1.7	1.7	1.7	LQM S4ULs
Boron (water soluble)	mg/kg	290	290	290	11000	11000	11000	LQM S4ULs
Cadmium	mg/kg	10	10	10	85	85	85	SGVs
Chromium (Total)	mg/kg	910	910	910	910	910	910	LQM S4ULs
Chromium (VI)	mg/kg	21	21	21	-	-	-	DEFRA C4SLs
Copper	mg/kg	2400	2400	2400	7100	7100	7100	LQM S4ULs
Lead	mg/kg	200	200	200	310	310	310	DEFRA C4SLs
Mercury	mg/kg	1.2	1.2	1.2	1.2	1.2	1.2	LQM S4ULs
Nickel	mg/kg	180	180	180	180	180	180	LQM S4ULs
Selenium	mg/kg	350	350	350	430	430	430	SGVs
Vanadium	mg/kg	410	410	410	1200	1200	1200	LQM S4ULs
Zinc	mg/kg	3700	3700	3700	40000	40000	40000	LQM S4ULs
Aliphatic EC 5 - 6	mg/kg	42	78	160	42	78	160	LQM S4ULs
Aliphatic EC 6 - 8	mg/kg	100	230	530	100	230	530	LQM S4ULs
Aliphatic EC 8 - 10	mg/kg	27	65	150	27	65	150	LQM S4ULs
Aliphatic EC 10 - 12	mg/kg	130 (48) vap	330 (118) vap	760 (283) vap	130 (48) vap	330 (118) vap	770 (283) vap	LQM S4ULs
Aliphatic EC 12 - 16	mg/kg	1100 (24) sol	2400 (59) sol	4300 (142) sol	1100 (24) sol	2400 (59) sol	4400 (142) sol	LQM S4ULs
Aliphatic EC 16 - 35	mg/kg	65000 (8.48) f,sol	92000 (21) f,sol	110000 f	65000 (8.48) f,sol	92000 (21) f,sol	110000 f	LQM S4ULs
Aliphatic EC 35 - 44	mg/kg	65000 (8.48) f,sol	92000 (21) f,sol	110000 f	65000	92000 (21) f,sol	110000 f	LQM S4ULs
Aromatic EC 5 - 7	mg/kg	70	140	300	370	690	1400	LQM S4ULs
Aromatic EC 7 - 8	mg/kg	130	290	660	860	1800	3900	LQM S4ULs
Aromatic EC 8 - 10	mg/kg	34	83	190	47	110	270	LQM S4ULs
Aromatic EC 10 - 12	mg/kg	74	180	380	250	590	1200	LQM S4ULs
Aromatic EC 12 -16	mg/kg	140	330	660	1800	2300	2500	LQM S4ULs
Aromatic EC 16 - 21	mg/kg	260 f	540 f	930 f	1900	1900	1900	LQM S4ULs
Aromatic EC 21 - 35	mg/kg	1100 f	1500 f	1700 f	1900	1900	1900	LQM S4ULs
Aromatic EC 35 - 44	mg/kg	1100 f	1500 f	1700 f	1900	1900	1900	LQM S4ULs
Benzene	mg/kg	0.33	0.33	0.33	0.38	0.7	1.4	SGVs
Toluene	mg/kg	610	610	610	880	1900	3900	SGVs
Ethyl Benzene	mg/kg	350	350	350	83	190	440	SGVs
Xylene - o	mg/kg	250	250	250	88	210	480	SGVs
Xylene - m	mg/kg	240	240	240	82	190	450	SGVs
Xylene - p	mg/kg	230	230	230	79	180	430	SGVs
MTBE (methyl tert-butyl ether)	mg/kg	49	84	160	-	-	-	CL:AIRE 2010
Acenaphthene	mg/kg	210	510	1100	3000	4700	6000	LQM SAULs
Acenaphthylene	mg/kg	170	420	920	2900	4600	6000	LQM S4ULs
Anthracene	mg/kg	2400	5400	11000	31000	35000	37000	LQM S4ULs
Benzo(a)anthracene	mg/kg	7.2	11	13	11	14	15	LQM S4ULs
Benzo(a)pyrene	mg/kg	2.2	2.7	5*	3.2	3.2	3.2	DEFRA C4SL*/LQM S4ULs
Benzo(b)fluoranthene	mg/kg	2.6	3.3	3.7	3.9	4	4	LQM S4ULs
Benzo(ghi)perylene	mg/kg	320	340	350	360	360	360	LQM S4ULs
Benzo(k)fluoranthene	mg/kg	77	93	100	110	110	110	LQM S4ULs
Chrysene	mg/kg	15	22	27	30	31	32	LQM S4ULs
Dibenzo(ah)anthracene	mg/kg	0.24	0.28	0.3	0.31	0.32	0.32	LQM S4ULs
Fluoranthene	mg/kg	280	560	890	1500	1600	1600	LQM S4ULs
Fluorene	mg/kg	170	400	860	2800	3800	4500	LQM S4ULs
Indeno(123-cd)pyrene	mg/kg	27	36	41	45	46	46	LQM S4ULs
Naphthalene	mg/kg	2.3 f	5.6 f	13 f	2.3	5.6	13	LQM S4ULs
Phenanthrene	mg/kg	95	220	440	1300	1500	1500	LQM S4ULs
Pyrene	mg/kg	620	1200	2000	3700	3800	3800	LQM S4ULs

Generic Assessment Criteria (GAC)

GROUNDTECH CONSULTING

Proposed End Use	Unit	Residential with Plant Uptake			Residential without plant uptake			Source
SOM	%	1	2.5	6	1	2.5	6	
Phenols	*mg/kg*	*420*	*420*	*420*	-			*SGVs*
Chlorophenols	*mg/kg*	*0.87* [g]	*2*	*4.5*	-			*LQM S4ULs*
Pentachlorophenol	*mg/kg*	*0.22*	*0.52*	*1.2*	-			*LQM S4ULs*
Carbon disulphide	*mg/kg*	*0.14*	*0.29*	*0.62*	-			*LQM S4ULs*
Hexachlorobutadiene	*mg/kg*	*0.29*	*0.7*	*1.6*	-			*LQM S4ULs*
1,1,1,2 Tetrachloroethane	*mg/kg*	*1.6*	*3.4*	*7.5*	-			*LQM S4ULs*
1,1,1 Trichloroethane	*mg/kg*	*8.8*	*18*	*39*	-			*LQM S4ULs*
Trichloroethene	*mg/kg*	*0.016*	*0.034*	*0.075*	-			*LQM S4ULs*
Tetrachoromethane (Carbon Tetrachloride)	*mg/kg*	*0.026*	*0.056*	*0.13*	-			*LQM S4ULs*
1,2-Dichloroethane	*mg/kg*	*0.0071*	*0.011*	*0.019*	-			*LQM S4ULs*
Chloroethene (Vinyl chloride)	*mg/kg*	*0.00064*	*0.00087*	*0.0014*	-			*LQM S4ULs*
Trichloromethane (Chloroform)	*mg/kg*	*0.91*	*1.7*	*3.4*	-			*LQM S4ULs*
Tetrachloroethene	*mg/kg*	*0.18*	*0.39*	*0.9*	-			*LQM S4ULs*
Hexachlorobenzene	*mg/kg*	*1.8 (0.2)* [vap]	*3.3 (0.5)* [vap]	*4.9*	-			*LQM S4ULs*
Pentachlorobenzene	*mg/kg*	*5.8*	*12*	*22*	-			*LQM S4ULs*
1,2,4,5-Tetrachlorobenzene	*mg/kg*	*0.33*	*0.77*	*1.6*	-			*LQM S4ULs*
1,2,3,5-Tetrachlorobenzene	*mg/kg*	*0.66*	*1.69*	*3.7*	-			*LQM S4ULs*
1,2,3,4-Tetrachlorobenzene	*mg/kg*	*15*	*36*	*78*	-			*LQM S4ULs*
1,3,5-Trichlorobenzene	*mg/kg*	*0.33*	*0.81*	*1.9*	-			*LQM S4ULs*
1,2,4-Trichlorobenzene	*mg/kg*	*2.6*	*6.4*	*15*	-			*LQM S4ULs*
1,2,3-Trichlorobenzene	*mg/kg*	*1.5*	*3.6*	*8.6*	-			*LQM S4ULs*
1,4-dichlorobenzene	*mg/kg*	*61* [f]	*150* [f]	*350* [f]	-			*LQM S4ULs*
1,3-dichlorobenzene	*mg/kg*	*0.4*	*1*	*2.3*	-			*LQM S4ULs*
1,2-Dichlorobenzene	*mg/kg*	*23*	*55*	*130*	-			*LQM S4ULs*
Chlorobenzene	*mg/kg*	*0.46*	*1*	*2.4*	-			*LQM S4ULs*
Gamma-Hexachlorocyclohexanes	*mg/kg*	*0.06*	*0.14*	*0.33*	-			*LQM S4ULs*
Beta-Hexachlorocyclohexane	*mg/kg*	*0.085*	*0.2*	*0.46*	-			*LQM S4ULs*
Alpaha - Hexachlorocyclohexane	*mg/kg*	*0.23*	*0.55*	*1.2*	-			*LQM S4ULs*
Beta -Endosulfan	*mg/kg*	*7*	*17*	*39*	-			*LQM S4ULs*
Alpha-Endosulfan	*mg/kg*	*7.4*	*18*	*41*	-			*LQM S4ULs*
Dichlorvos	*mg/kg*	*0.032*	*0.066*	*0.14*	-			*LQM S4ULs*
Atrazine	*mg/kg*	*3.3*	*7.6*	*17.4*	-			*LQM S4ULs*
Dieldrin	*mg/kg*	*0.97*	*2*	*3.5*	-			*LQM S4ULs*
Aldrin	*mg/kg*	*5.7*	*6.6*	*7.1*	-			*LQM S4ULs*
HMX	*mg/kg*	*5.7*	*13*	*26*	-			*LQM S4ULs*
2,4,6-Trinitrotoulene	*mg/kg*	*1.6*	*3.7*	*8.1*	-			*LQM S4ULs*
RDX	*mg/kg*	*120*	*250*	*540*	-			*LQM S4ULs*

[sol] S4UL exceeds the solubility saturation limit (which is presented in brackets)

[vap] S4ULS presented exceeds the vapour saturation limit, which is presented in brackets

[f] For naphthalene, the S4UL is based on a comparison of inhalation exposure with the TDI_{inhal} for localised affects

[f] S4UL based on comparison of inhalation exposure with inhalation TDI for localised effects

[dir] S4ULs based on a threshold protecive direct skin contact with phenol (guideline in brackets based on health effects following long term exposure provided for illustation only

APPENDIX 10 - CIRIA Risk Assessment Methodology

Contaminated Land Risk Assessment

Contaminated Land Risk Assessment is a technique that identifies and considers the associated risk, determines whether the risks are significant and whether action needs to be taken. The four main stages of risk assessment are:

Hazard Identification ⇨ Hazard Assessment ⇨ Risk Estimation ⇨ Risk Evaluation

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. The starting point of the risk assessment is to identify the context of the problem and the objectives of the process.

Formulating and developing a conceptual model for the site is an important requirement of risk assessment, this supports the identification and assessment of pollutant linkages. Development of the conceptual model forms the main part of preliminary risk assessment, and the model is subsequently refined or revised as more information and understanding is obtained through the risk assessment process.

Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk.

The risk assessment process needs to take into account the degree of confidence required in decisions. Identification of uncertainties is an essential step in risk assessment.

The likelihood of an event is classified on a four-point system using the following terms and definitions from CIRIA C552:

- High likelihood: There is a pollution linkage and an event appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution;

- Likely: There is a pollution linkage and all the elements are present and in the right place, which means it is probable that an event will occur. Circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;

- Low likelihood: There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain even over a longer period such event would take place, and is less likely in the short term;

- Unlikely: There is a pollution linkage but circumstances are such that it is improbable the event would occur even in the long term.

The severity is also classified using a system based on CIRIA C552. The terms and definitions are:

- Severe: Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. A short-term risk to a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples – High concentrations of contaminant on surface of recreation area, major spillage of contaminants from site into controlled waters, explosion causing building to collapse;

- Medium: Chronic damage to human health ('significant harm' as defined in DETR 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples - Concentrations of contaminants exceed the generic assessment criteria, leaching of contaminants from a site to a Principal or Secondary Aquifer, death of species within a designated nature reserve;

- Mild: Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures, services or the environment;
  Examples – Pollution of non-classified groundwater or damage to buildings rendering it unsafe to occupy.

- Minor: harm, not necessarily significant harm, which may result in financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by use of personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.
  Examples – Presence of contaminants at such concentrations PPE is required during site work, loss of plants in landscaping scheme or discolouration of concrete.

Once the likelihood and severity have been determined, a risk category can be assigned using the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very Low	Very low

Definitions of the risk categories obtained from the above table are as follows together with an assessment of the further work that might be required:

- Very high: There is a high probability that severe harm could arise to a designated receptor from an identified hazard or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability. Urgent investigation and remediation are likely to be required;

- High: Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the longer term;

- Moderate: It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it would be more likely to be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term;

- Low: It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild;

- Very Low: There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

APPENDIX 11 - JIWG Receptor Decision Tool

JIWG

Joint Industry Working Group

Asbestos in Soil and Construction & Demolition Materials

Decision Support Tool for Receptor Risk Ranking

Stage 1

Hazard Identification		Score
Select ACM type (run model for each type to generate 'Worst Case' output)	Free dispersed fibres/fibre bundles	2
Extent of degradation of ACMs	Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Non-friable ACM or ACM with fibres firmly linked in a matrix	0
Distribution of Visible Asbestos Across Affected Area	Occasional/random occurrences of visible contamination by ACMs	1
Asbestos fibre type	Mainly chrysotile and trace amphibole (no crocidolite)	1
Sub-total		**8**
Hazard ranking		**Low**

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.
It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

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Version 2, February 2017

Stage 2

Emission Factors		Score
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Large quantities - ≥0.1 %wt/wt	4
Respirable fibre index for ACM - RIVM report 711701034 (2003)	Very low	1
Activity type and effect on deterioration of ACMs	Minimal disturbance, no deterioration expected	1
Best description of primary host material matrix	Coarse to Fine Sand	2
Sub-total		**8**
Exposure ranking		**Low**

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Stage 3

Pathway and Receptor Sensitivity		Score	
Receptor category	Public open space or building	No score required	
Age of Receptor	Infant (under 5)	4	
Duration of exposure/site occupancy	< 1 hour in any single day (e.g. frequent but short exposure event)	1	
Receptor ranking		5	Medium
Combined hazard, exposure and receptor ranking			Low
Pathway: Distance of Receptor from Source	In or within 10m of area of disturbance	4	
Pathway: Depth to impacted material	Material present near the surface, potential to be disturbed during non-construction/routine use of land	D	
Pathway ranking		4D	Medium
Overall ranking			Low

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Project Reference	GRO-22462

Site Name	Brunswick Mill
Client	Arrowsmith Investments

Run by	CH
Date	30-Jun-23
Reviewed by	RW

Characterisation of scenario being evaluated	

Interpretation of scenario ranking by DST	

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JIWG

Joint Industry Working Group

Asbestos in Soil and Construction & Demolition Materials

Project Reference	GRO-22462
Site Name	Brunswick Mill
Client	Arrowsmith Investments Limited
Run by	RW
Date	30-Jun-23
Scenario details	

Decision Support Tool for CAR2012 Work Categories

Stage 1

Hazard Factors

		Score
Select ACM type (run model for each type to generate 'Worst Case' output)	Loose fibrous asbestos debris	3
Extent of degradation of ACMs at outset of work	Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)	4
Distribution of Visible Asbestos Across Affected Area	Occasional/random occurrences of visible contamination by ACMs	1
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Large quantities - >0.1 %wt/wt	4
Sub-total		**16**

Note: the asbestos licensing regime is unaffected by the type of asbestos fibre present in ACMs

Hazard ranking **High**

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.
It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

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Stage 2

Exposure Factors

		Score
Anticipated airborne fibre concentration - Control Limit or SALI?	<0.001 fibres/ml	0
Anticipated duration of exposure to asbestos	> 2 hours in a 7 day period and Up to 10 hours in a day (e.g. full time occupational exposure)	4
Activity type and effect on deterioration of ACMs during work	Sampling, manual or mechanical (significant deterioration expected)	2
Best description of primary host material matrix (soil/made ground)	Coarse to Fine Sand	2
Respirable fibre index for ACM - RIVM report 711701034 (2003)	Medium	3
Sub-total		**11**
Exposure ranking		Medium
Combined hazard and exposure ranking	**27**	Medium

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Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN140 with P3 filter half mask
Dust Suppression**	Localised mechanical dust suppression
Hygiene/Decontamination***	Localised and enhanced personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 1-hour), then powered RPE may be necessary.
**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)
***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

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APPENDIX 12 - Waste Classification Report

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

QUU7B-37Z36-D0A79

Job name

EMT-23-7677-Batch-1-202306081050

Description/Comments

Project

GRO-22462

Site

Brunswick Mill

Classified by

Name:
Richard Wyatt
Date:
21 Jun 2023 15:39 GMT
Telephone:
07742660133

Company:
Groundtech Consulting Limited
First Floor, Lloyd House
Orford Court, Greenfold Way
Leigh
WN7 3XJ

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	50% complete

Purpose of classification

4 - Classification of Waste Products

Address of the waste

Brunswick Mill, Bradford Road, Manchester **Post Code** M40 7EZ

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of derelict land into apartment blocks

Description of the specific process, sub-process and/or activity that created the waste

Waste created during trial pit and borehole excavation.

Description of the waste

Made Ground comprising brown grey black ashy clay to gravel.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH01-11/05/2023-0.50m		Hazardous	HP 8	3
2	BH02-11/05/2023-2.00m		Non Hazardous		5
3	BH03-11/05/2023-1.00m		Non Hazardous		7

Related documents

#	Name	Description
1	EMT-23-7677-Batch-1-202306081050.HWOL	Element .hwol file used to populate the Job

Report

Created by: Richard Wyatt

Created date: 21 Jun 2023 15:39 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	9
Appendix B: Rationale for selection of metal species	10
Appendix C: Version	10

Classification of sample: BH01-11/05/2023-0.50m

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
BH01-11/05/2023-0.50m
Moisture content:
13.1%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.63 pH)

Determinands

Moisture content: 13.1% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				7.7	mg/kg	1.895	12.898	mg/kg	0.00129 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		28	mg/kg	3.929	97.271	mg/kg	0.00973 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	82	mg/kg	1.57	113.821	mg/kg	0.00725 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1	mg/kg	1.419	<0.142	mg/kg	<0.0000142 %		<**LOD**
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		18.6	mg/kg	5.324	87.561	mg/kg	0.00876 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		62	mg/kg	4.398	241.089	mg/kg	0.0241 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		140	µg/kg		0.124	mg/kg	0.0000124 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.08	mg/kg		0.0707	mg/kg	0.00000707 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.36	mg/kg		0.318	mg/kg	0.0000318 %	✓	
13	fluorene		201-695-5	86-73-7		0.24	mg/kg		0.212	mg/kg	0.0000212 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		phenanthrene	201-581-5	85-01-8		2.42	mg/kg		2.14	mg/kg	0.000214 %	✓	
15		anthracene	204-371-1	120-12-7		0.62	mg/kg		0.548	mg/kg	0.0000548 %	✓	
16		fluoranthene	205-912-4	206-44-0		3.61	mg/kg		3.192	mg/kg	0.000319 %	✓	
17		pyrene	204-927-3	129-00-0		3.31	mg/kg		2.927	mg/kg	0.000293 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		1.55	mg/kg		1.37	mg/kg	0.000137 %	✓	
		601-033-00-9											
19		chrysene	205-923-4	218-01-9		1.57	mg/kg		1.388	mg/kg	0.000139 %	✓	
		601-048-00-0											
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		1.67	mg/kg		1.477	mg/kg	0.000148 %	✓	
		601-032-00-3											
21		indeno[123-cd]pyrene	205-893-2	193-39-5		0.94	mg/kg		0.831	mg/kg	0.0000831 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.11	mg/kg		0.0973	mg/kg	0.00000973 %	✓	
		601-041-00-2											
23		benzo[ghi]perylene	205-883-8	191-24-2		0.85	mg/kg		0.752	mg/kg	0.0000752 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		1.89	mg/kg		1.671	mg/kg	0.000167 %	✓	
		601-034-00-4											
25		benzo[k]fluoranthene	205-916-6	207-08-9		0.73	mg/kg		0.645	mg/kg	0.0000645 %	✓	
		601-036-00-5											
26		pH		PH		11.63	pH		11.63	pH	11.63 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		44.8	mg/kg	1.462	57.894	mg/kg	0.00579 %	✓	
										Total:	0.0591 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH02-11/05/2023-2.00m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH02-11/05/2023-2.00m
Moisture content:
17.9%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.9% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				8.6 mg/kg	1.895	13.819 mg/kg	0.00138 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		32 mg/kg	3.929	106.641 mg/kg	0.0107 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	77 mg/kg	1.57	102.529 mg/kg	0.00653 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.3 mg/kg	1.419	0.361 mg/kg	0.0000361 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		15.1 mg/kg	5.324	68.191 mg/kg	0.00682 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		78 mg/kg	4.398	290.957 mg/kg	0.0291 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		120 µg/kg		0.102 mg/kg	0.0000102 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.11 mg/kg		0.0933 mg/kg	0.00000933 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.07 mg/kg		0.0594 mg/kg	0.00000594 %	✓	
13	fluorene		201-695-5	86-73-7		0.08 mg/kg		0.0679 mg/kg	0.00000679 %	✓	
14	phenanthrene		201-581-5	85-01-8		0.85 mg/kg		0.721 mg/kg	0.0000721 %	✓	
15	anthracene		204-371-1	120-12-7		0.4 mg/kg		0.339 mg/kg	0.0000339 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				1.41	mg/kg		1.196	mg/kg	0.00012 %	✓	
			205-912-4	206-44-0									
17		pyrene				1.24	mg/kg		1.052	mg/kg	0.000105 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.66	mg/kg		0.56	mg/kg	0.000056 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				0.78	mg/kg		0.662	mg/kg	0.0000662 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				0.8	mg/kg		0.679	mg/kg	0.0000679 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				0.52	mg/kg		0.441	mg/kg	0.0000441 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				0.08	mg/kg		0.0679	mg/kg	0.00000679 %	✓	
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				0.53	mg/kg		0.45	mg/kg	0.000045 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				0.96	mg/kg		0.814	mg/kg	0.0000814 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.38	mg/kg		0.322	mg/kg	0.0000322 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				42.1	mg/kg	1.462	52.19	mg/kg	0.00522 %	✓	
			215-160-9	1308-38-9									
										Total:	0.0609 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered.

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00003%)

Classification of sample: BH03-11/05/2023-1.00m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH03-11/05/2023-1.00m
Moisture content:
14.2%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14.2% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				8.2 mg/kg	1.895	13.603 mg/kg	0.00136 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		19 mg/kg	3.929	65.37 mg/kg	0.00654 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	123 mg/kg	1.57	169.087 mg/kg	0.0108 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.2 mg/kg	1.419	0.248 mg/kg	0.0000248 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		9.4 mg/kg	5.324	43.825 mg/kg	0.00438 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		54 mg/kg	4.398	207.958 mg/kg	0.0208 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		1070 µg/kg		0.937 mg/kg	0.0000937 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.17 mg/kg		0.149 mg/kg	0.0000149 %	✓	
12	acenaphthene		201-469-6	83-32-9		1.31 mg/kg		1.147 mg/kg	0.000115 %	✓	
13	fluorene		201-695-5	86-73-7		1.22 mg/kg		1.068 mg/kg	0.000107 %	✓	
14	phenanthrene		201-581-5	85-01-8		9.76 mg/kg		8.546 mg/kg	0.000855 %	✓	
15	anthracene		204-371-1	120-12-7		1.63 mg/kg		1.427 mg/kg	0.000143 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				9.46	mg/kg		8.284	mg/kg	0.000828 %	✓	
			205-912-4	206-44-0									
17		pyrene				8.95	mg/kg		7.837	mg/kg	0.000784 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				4.01	mg/kg		3.511	mg/kg	0.000351 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				4.97	mg/kg		4.352	mg/kg	0.000435 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				3.83	mg/kg		3.354	mg/kg	0.000335 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				2.33	mg/kg		2.04	mg/kg	0.000204 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				0.47	mg/kg		0.412	mg/kg	0.0000412 %	✓	
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				2.38	mg/kg		2.084	mg/kg	0.000208 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				4.85	mg/kg		4.247	mg/kg	0.000425 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				1.88	mg/kg		1.646	mg/kg	0.000165 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				9.13	pH		9.13	pH	9.13 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				33.9	mg/kg	1.462	43.386	mg/kg	0.00434 %	✓	
			215-160-9	1308-38-9									
										Total:	0.0537 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered.

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00002%)

Appendix A: Classifier defined and non GB MCL determinands

lead di(acetate) (EC Number: 206-104-4, CAS Number: 301-04-2)

GB MCL index number: 082-005-00-8
Description/Comments: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2.
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

- **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Worst case scenario

cadmium {cadmium sulfate}

Worst case scenario

copper {copper sulphate pentahydrate}

Worst case scenario

lead {lead di(acetate)}

Worst case scenario

mercury {mercury difulminate}

Worst case scenario

nickel {nickel diiodide}

Worst case scenario

selenium {nickel selenate}

Worst case scenario

zinc {zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]}

Worst case scenario

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case scenario

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case scenario

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2023.171.5623.10363 (20 Jun 2023)
HazWasteOnline Database: 2023.171.5623.10363 (20 Jun 2023)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

CIW1K-3FMI4-QE9VL

Job name

EMT-23-7686-Batch-1-202306051043

Description/Comments

Project

GRO-22462

Site

Brunswick Mill

Classified by

Name:
Richard Wyatt
Date:
21 Jun 2023 15:37 GMT
Telephone:
07742660133

Company:
Groundtech Consulting Limited
First Floor, Lloyd House
Orford Court, Greenfold Way
Leigh
WN7 3XJ

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	50% complete

Purpose of classification

4 - Classification of Waste Products

Address of the waste

Brunswick Mill, Bradford Road, Manchester **Post Code** M40 7EZ

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of derelict land for apartment blocks.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during trial pit and borehole excavation.

Description of the waste

Made Ground comprising brown black ashy clay to gravel

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HP01-09/05/2023-0.50m		Non Hazardous		3
2	HP02-09/05/2023-0.50m		Non Hazardous		5
3	HP03-09/05/2023-0.50m		Hazardous	HP 14	7
4	HP05-10/05/2023-0.50m		Non Hazardous		9
5	HP06-10/05/2023-0.50m		Non Hazardous		11
6	HP07-10/05/2023-0.50m		Non Hazardous		13
7	HP09-11/05/2023-0.50m		Non Hazardous		15
8	HP10-11/05/2023-0.50m		Non Hazardous		17
9	HP11-11/05/2023-0.50m		Non Hazardous		19
10	HP12-12/05/2023-0.50m		Non Hazardous		25
11	HP13-12/05/2023-0.50m		Non Hazardous		31
12	TP01-11/05/2023-1.00m		Non Hazardous		33
13	TP02-11/05/2023-0.50m		Non Hazardous		39
14	TP03-11/05/2023-1.00m		Non Hazardous		45
15	TP04-11/05/2023-2.00m		Non Hazardous		47
16	TP05-11/05/2023-1.00m		Non Hazardous		49
17	TP06-11/05/2023-0.50m		Non Hazardous		51
18	TP06-11/05/2023-2.70m		Non Hazardous		53
19	TP07-11/05/2023-1.00m		Non Hazardous		54
20	WS01A-13/05/2023-1.00m		Non Hazardous		56
21	WS02-13/05/2023-0.50m		Non Hazardous		59
22	WS04-13/05/2023-0.50m		Non Hazardous		61
23	WS06-13/05/2023-0.50m		Non Hazardous		64
24	WS07A-13/05/2023-1.00m		Hazardous	HP 14	67
25	WS08-13/05/2023-0.50m		Non Hazardous		69
26	WS08-13/05/2023-2.50m		Non Hazardous		71
27	WS09-13/05/2023-0.50m		Non Hazardous		72
28	WS10-13/05/2023-1.20m		Non Hazardous		74
29	WS11-13/05/2023-1.50m		Non Hazardous		76

Related documents

#	Name	Description
1	EMT-23-7686-Batch-1-202306051043.HWOL	Element .hwol file used to populate the Job

Report

Created by: Richard Wyatt

Created date: 21 Jun 2023 15:37 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	82
Appendix B: Rationale for selection of metal species	86
Appendix C: Version	86

Classification of sample: HP01-09/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP01-09/05/2023-0.50m
Moisture content:
22.4%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				17.3 mg/kg	1.895	26.777 mg/kg	0.00268 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		**<LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		63 mg/kg	3.929	202.231 mg/kg	0.0202 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	296 mg/kg	1.57	379.648 mg/kg	0.0242 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.4 mg/kg	1.419	0.464 mg/kg	0.0000464 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		42 mg/kg	5.324	182.697 mg/kg	0.0183 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1 mg/kg	2.554	2.086 mg/kg	0.000209 %	✓	
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		71 mg/kg	4.398	255.108 mg/kg	0.0255 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		**<LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		60 µg/kg		0.049 mg/kg	0.0000049 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.04 mg/kg		0.0327 mg/kg	0.00000327 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.15 mg/kg		0.123 mg/kg	0.0000123 %	✓	
13	fluorene		201-695-5	86-73-7		0.16 mg/kg		0.131 mg/kg	0.0000131 %	✓	
14	phenanthrene		201-581-5	85-01-8		1.69 mg/kg		1.381 mg/kg	0.000138 %	✓	
15	anthracene		204-371-1	120-12-7		0.47 mg/kg		0.384 mg/kg	0.0000384 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				1.59	mg/kg		1.299	mg/kg	0.00013 %	✓	
			205-912-4	206-44-0									
17		pyrene				1.55	mg/kg		1.266	mg/kg	0.000127 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.83	mg/kg		0.678	mg/kg	0.0000678 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				0.86	mg/kg		0.703	mg/kg	0.0000703 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				0.67	mg/kg		0.547	mg/kg	0.0000547 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				0.27	mg/kg		0.221	mg/kg	0.0000221 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				0.07	mg/kg		0.0572	mg/kg	0.00000572 %	✓	
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				0.31	mg/kg		0.253	mg/kg	0.0000253 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				0.75	mg/kg		0.613	mg/kg	0.0000613 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.29	mg/kg		0.237	mg/kg	0.0000237 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				8.68	pH		8.68	pH	8.68 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				84.1	mg/kg	1.462	100.422	mg/kg	0.01 %	✓	
			215-160-9	1308-38-9									
										Total:	0.102 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00004%)

Classification of sample: HP02-09/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP02-09/05/2023-0.50m
Moisture content:
20.3%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20.3% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				71.9 mg/kg	1.895	113.23 mg/kg	0.0113 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		142 mg/kg	3.929	463.778 mg/kg	0.0464 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	155 mg/kg	1.57	202.273 mg/kg	0.0129 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.7 mg/kg	1.419	0.826 mg/kg	0.0000826 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		65.4 mg/kg	5.324	289.451 mg/kg	0.0289 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		127 mg/kg	4.398	464.286 mg/kg	0.0464 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		400 µg/kg		0.333 mg/kg	0.0000333 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.16 mg/kg		0.133 mg/kg	0.0000133 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.34 mg/kg		0.283 mg/kg	0.0000283 %	✓	
13	fluorene		201-695-5	86-73-7		0.37 mg/kg		0.308 mg/kg	0.0000308 %	✓	
14	phenanthrene		201-581-5	85-01-8		5.44 mg/kg		4.522 mg/kg	0.000452 %	✓	
15	anthracene		204-371-1	120-12-7		1.14 mg/kg		0.948 mg/kg	0.0000948 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		5.77	mg/kg		4.796	mg/kg	0.00048 %	✓	
17		pyrene	204-927-3	129-00-0		5.64	mg/kg		4.688	mg/kg	0.000469 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		2.62	mg/kg		2.178	mg/kg	0.000218 %	✓	
		601-033-00-9											
19		chrysene	205-923-4	218-01-9		2.85	mg/kg		2.369	mg/kg	0.000237 %	✓	
		601-048-00-0											
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		2.32	mg/kg		1.929	mg/kg	0.000193 %	✓	
		601-032-00-3											
21		indeno[123-cd]pyrene	205-893-2	193-39-5		1.19	mg/kg		0.989	mg/kg	0.0000989 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.22	mg/kg		0.183	mg/kg	0.0000183 %	✓	
		601-041-00-2											
23		benzo[ghi]perylene	205-883-8	191-24-2		1.29	mg/kg		1.072	mg/kg	0.000107 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		2.81	mg/kg		2.336	mg/kg	0.000234 %	✓	
		601-034-00-4											
25		benzo[k]fluoranthene	205-916-6	207-08-9		1.09	mg/kg		0.906	mg/kg	0.0000906 %	✓	
		601-036-00-5											
26		pH		PH		8.68	pH		8.68	pH	8.68 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		70.8	mg/kg	1.462	86.017	mg/kg	0.0086 %	✓	
										Total:	0.158 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00008%)

Classification of sample: HP03-09/05/2023-0.50m

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
HP03-09/05/2023-0.50m
Moisture content:
13.3%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

copper sulphate pentahydrate: (compound conc.: 0.512%)

Determinands

Moisture content: 13.3% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				27.8	mg/kg	1.895	46.485	mg/kg	0.00465 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		1477	mg/kg	3.929	5121.987	mg/kg	0.512 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	272	mg/kg	1.57	376.886	mg/kg	0.024 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.4	mg/kg	1.419	0.501	mg/kg	0.0000501 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		39.2	mg/kg	5.324	184.212	mg/kg	0.0184 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		226	mg/kg	4.398	877.256	mg/kg	0.0877 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		26830	µg/kg		23.68	mg/kg	0.00237 %	✓	
11	acenaphthylene		205-917-1	208-96-8		1.37	mg/kg		1.209	mg/kg	0.000121 %	✓	
12	acenaphthene		201-469-6	83-32-9		54.06	mg/kg		47.714	mg/kg	0.00477 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		fluorene		201-695-5	86-73-7		33.12	mg/kg		29.232	mg/kg	0.00292 %	✓	
14		phenanthrene		201-581-5	85-01-8		274.34	mg/kg		242.136	mg/kg	0.0242 %	✓	
15		anthracene		204-371-1	120-12-7		71.85	mg/kg		63.416	mg/kg	0.00634 %	✓	
16		fluoranthene		205-912-4	206-44-0		291.31	mg/kg		257.114	mg/kg	0.0257 %	✓	
17		pyrene		204-927-3	129-00-0		250.97	mg/kg		221.509	mg/kg	0.0222 %	✓	
18		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		110.2	mg/kg		97.264	mg/kg	0.00973 %	✓	
19		chrysene	601-048-00-0	205-923-4	218-01-9		106.6	mg/kg		94.086	mg/kg	0.00941 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		107.79	mg/kg		95.137	mg/kg	0.00951 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		61.48	mg/kg		54.263	mg/kg	0.00543 %	✓	
22		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		10.87	mg/kg		9.594	mg/kg	0.000959 %	✓	
23		benzo[ghi]perylene		205-883-8	191-24-2		64.2	mg/kg		56.664	mg/kg	0.00567 %	✓	
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		119.86	mg/kg		105.79	mg/kg	0.0106 %	✓	
25		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		46.61	mg/kg		41.139	mg/kg	0.00411 %	✓	
26		pH			PH		7.95	pH		7.95	pH	7.95 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		44.3	mg/kg	1.462	57.146	mg/kg	0.00571 %	✓	
											Total:	0.797 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00005%)

Classification of sample: HP05-10/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP05-10/05/2023-0.50m
Moisture content:
34.6%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 34.6% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				18.1 mg/kg	1.895	25.476 mg/kg	0.00255 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		81 mg/kg	3.929	236.444 mg/kg	0.0236 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	72 mg/kg	1.57	83.977 mg/kg	0.00535 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		1.2 mg/kg	1.419	1.265 mg/kg	0.000127 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		43.5 mg/kg	5.324	172.071 mg/kg	0.0172 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1 mg/kg	2.554	1.897 mg/kg	0.00019 %	✓	
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		256 mg/kg	4.398	836.455 mg/kg	0.0836 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		50 µg/kg		0.0371 mg/kg	0.00000371 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.05 mg/kg		0.0371 mg/kg	0.00000371 %	✓	
12	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
13	fluorene		201-695-5	86-73-7		0.07 mg/kg		0.052 mg/kg	0.0000052 %	✓	
14	phenanthrene		201-581-5	85-01-8		0.98 mg/kg		0.728 mg/kg	0.0000728 %	✓	
15	anthracene		204-371-1	120-12-7		0.2 mg/kg		0.149 mg/kg	0.0000149 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				0.87	mg/kg		0.646	mg/kg	0.0000646 %	✓	
			205-912-4	206-44-0									
17		pyrene				0.96	mg/kg		0.713	mg/kg	0.0000713 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.51	mg/kg		0.379	mg/kg	0.0000379 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				0.55	mg/kg		0.409	mg/kg	0.0000409 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				0.48	mg/kg		0.357	mg/kg	0.0000357 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				0.24	mg/kg		0.178	mg/kg	0.0000178 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				0.26	mg/kg		0.193	mg/kg	0.0000193 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				0.55	mg/kg		0.409	mg/kg	0.0000409 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.22	mg/kg		0.163	mg/kg	0.0000163 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				8.22	pH		8.22	pH	8.22 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				54.2	mg/kg	1.462	58.853	mg/kg	0.00589 %	✓	
			215-160-9	1308-38-9									
										Total:	0.139 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00012%)

Classification of sample: HP06-10/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP06-10/05/2023-0.50m
Moisture content:
24.4%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				10.4 mg/kg	1.895	15.838 mg/kg	0.00158 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		29 mg/kg	3.929	91.594 mg/kg	0.00916 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	16 mg/kg	1.57	20.192 mg/kg	0.00129 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<**LOD**
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		43.6 mg/kg	5.324	186.607 mg/kg	0.0187 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		75 mg/kg	4.398	265.148 mg/kg	0.0265 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<40 µg/kg		<0.04 mg/kg	<0.000004 %		<**LOD**
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
12	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
13	fluorene		201-695-5	86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<**LOD**
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
15	anthracene		204-371-1	120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
17		pyrene	204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
18		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<**LOD**
19		chrysene	601-048-00-0	205-923-4	218-01-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
20		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
21		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
22		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
23		benzo[ghi]perylene	205-883-8	191-24-2		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
26		pH		PH		8.67	pH		8.67	pH	8.67 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		49.1	mg/kg	1.462	57.687	mg/kg	0.00577 %	✓	
										Total:	0.0634 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP07-10/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP07-10/05/2023-0.50m
Moisture content:
28.6%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28.6% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				8.5 mg/kg	1.895	12.522 mg/kg	0.00125 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<LOD
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		31 mg/kg	3.929	94.713 mg/kg	0.00947 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	14 mg/kg	1.57	17.091 mg/kg	0.00109 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<LOD
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		42 mg/kg	5.324	173.889 mg/kg	0.0174 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		75 mg/kg	4.398	256.489 mg/kg	0.0256 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<40 µg/kg		<0.04 mg/kg	<0.000004 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
17		pyrene	204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
18		benzo[a]anthracene	200-280-6	56-55-3		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<**LOD**
19		chrysene	205-923-4	218-01-9		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
21		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
22		dibenz[a,h]anthracene	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
23		benzo[ghi]perylene	205-883-8	191-24-2		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
24		benzo[b]fluoranthene	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		benzo[k]fluoranthene	205-916-6	207-08-9		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
26		pH		PH		8.44	pH		8.44	pH	8.44 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		48.3	mg/kg	1.462	54.894	mg/kg	0.00549 %	✓	
										Total:	0.0608 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP09-11/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP09-11/05/2023-0.50m
Moisture content:
23.8%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				23.2 mg/kg	1.895	35.503 mg/kg	0.00355 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		88 mg/kg	3.929	279.286 mg/kg	0.0279 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	115 mg/kg	1.57	145.83 mg/kg	0.00929 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.3 mg/kg	1.419	0.344 mg/kg	0.0000344 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		48.8 mg/kg	5.324	209.876 mg/kg	0.021 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		55 mg/kg	4.398	195.384 mg/kg	0.0195 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		530 µg/kg		0.428 mg/kg	0.0000428 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.22 mg/kg		0.178 mg/kg	0.0000178 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.41 mg/kg		0.331 mg/kg	0.0000331 %	✓	
13	fluorene		201-695-5	86-73-7		0.46 mg/kg		0.372 mg/kg	0.0000372 %	✓	
14	phenanthrene		201-581-5	85-01-8		5.48 mg/kg		4.426 mg/kg	0.000443 %	✓	
15	anthracene		204-371-1	120-12-7		1.3 mg/kg		1.05 mg/kg	0.000105 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		5.4	mg/kg		4.362	mg/kg	0.000436 %	✓	
17		pyrene	204-927-3	129-00-0		5.6	mg/kg		4.523	mg/kg	0.000452 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		2.62	mg/kg		2.116	mg/kg	0.000212 %	✓	
19		chrysene	205-923-4	218-01-9		2.87	mg/kg		2.318	mg/kg	0.000232 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		2.44	mg/kg		1.971	mg/kg	0.000197 %	✓	
21		indeno[123-cd]pyrene	205-893-2	193-39-5		1.11	mg/kg		0.897	mg/kg	0.0000897 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.24	mg/kg		0.194	mg/kg	0.0000194 %	✓	
23		benzo[ghi]perylene	205-883-8	191-24-2		1.16	mg/kg		0.937	mg/kg	0.0000937 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		2.74	mg/kg		2.213	mg/kg	0.000221 %	✓	
25		benzo[k]fluoranthene	205-916-6	207-08-9		1.06	mg/kg		0.856	mg/kg	0.0000856 %	✓	
26		pH		PH		8.53	pH		8.53	pH	8.53 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		44.8	mg/kg	1.462	52.89	mg/kg	0.00529 %	✓	
										Total:	0.0897 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00003%)

Classification of sample: HP10-11/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP10-11/05/2023-0.50m
Moisture content:
17.2%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.2% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				11.3 mg/kg	1.895	18.266 mg/kg	0.00183 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		38 mg/kg	3.929	127.393 mg/kg	0.0127 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	133 mg/kg	1.57	178.154 mg/kg	0.0113 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.4 mg/kg	1.419	0.484 mg/kg	0.0000484 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		25.4 mg/kg	5.324	115.39 mg/kg	0.0115 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		65 mg/kg	4.398	243.912 mg/kg	0.0244 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		1500 µg/kg		1.28 mg/kg	0.000128 %	✓	
11	acenaphthylene		205-917-1	208-96-8		1.78 mg/kg		1.519 mg/kg	0.000152 %	✓	
12	acenaphthene		201-469-6	83-32-9		1.37 mg/kg		1.169 mg/kg	0.000117 %	✓	
13	fluorene		201-695-5	86-73-7		2.04 mg/kg		1.741 mg/kg	0.000174 %	✓	
14	phenanthrene		201-581-5	85-01-8		15.97 mg/kg		13.626 mg/kg	0.00136 %	✓	
15	anthracene		204-371-1	120-12-7		5.22 mg/kg		4.454 mg/kg	0.000445 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		14.39	mg/kg		12.278	mg/kg	0.00123 %	✓	
17		pyrene	204-927-3	129-00-0		14.49	mg/kg		12.363	mg/kg	0.00124 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		8.13	mg/kg		6.937	mg/kg	0.000694 %	✓	
		601-033-00-9											
19		chrysene	205-923-4	218-01-9		7.31	mg/kg		6.237	mg/kg	0.000624 %	✓	
		601-048-00-0											
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		5.92	mg/kg		5.051	mg/kg	0.000505 %	✓	
		601-032-00-3											
21		indeno[123-cd]pyrene	205-893-2	193-39-5		2.44	mg/kg		2.082	mg/kg	0.000208 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.46	mg/kg		0.392	mg/kg	0.0000392 %	✓	
		601-041-00-2											
23		benzo[ghi]perylene	205-883-8	191-24-2		2.55	mg/kg		2.176	mg/kg	0.000218 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		6.36	mg/kg		5.427	mg/kg	0.000543 %	✓	
		601-034-00-4											
25		benzo[k]fluoranthene	205-916-6	207-08-9		2.48	mg/kg		2.116	mg/kg	0.000212 %	✓	
		601-036-00-5											
26		pH		PH		8.75	pH		8.75	pH	8.75 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		81.3	mg/kg	1.462	101.386	mg/kg	0.0101 %	✓	
										Total:	0.0803 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00004%)

Classification of sample: HP11-11/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP11-11/05/2023-0.50m
Moisture content:
35.4%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 35.4% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				43.7 mg/kg	1.895	61.145 mg/kg	0.00611 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		268 mg/kg	3.929	777.686 mg/kg	0.0778 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	981 mg/kg	1.57	1137.421 mg/kg	0.0725 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.3 mg/kg	1.419	0.314 mg/kg	0.0000314 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		51.1 mg/kg	5.324	200.939 mg/kg	0.0201 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		399 mg/kg	4.398	1295.991 mg/kg	0.13 %	✓	
9	naphthalene	601-052-00-2	202-049-5	91-20-3		2780 µg/kg		2.053 mg/kg	0.000205 %	✓	
10	acenaphthylene		205-917-1	208-96-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
11	acenaphthene		201-469-6	83-32-9		10.06 mg/kg		7.43 mg/kg	0.000743 %	✓	
12	fluorene		201-695-5	86-73-7		14.62 mg/kg		10.798 mg/kg	0.00108 %	✓	
13	phenanthrene		201-581-5	85-01-8		38.9 mg/kg		28.73 mg/kg	0.00287 %	✓	
14	anthracene		204-371-1	120-12-7		5.09 mg/kg		3.759 mg/kg	0.000376 %	✓	
15	fluoranthene		205-912-4	206-44-0		8.41 mg/kg		6.211 mg/kg	0.000621 %	✓	
16	pyrene		204-927-3	129-00-0		9.26 mg/kg		6.839 mg/kg	0.000684 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		benzo[a]anthracene				3.05	mg/kg		2.253	mg/kg	0.000225 %	✓	
		601-033-00-9	200-280-6	56-55-3									
18		chrysene				4.35	mg/kg		3.213	mg/kg	0.000321 %	✓	
		601-048-00-0	205-923-4	218-01-9									
19		benzo[a]pyrene; benzo[def]chrysene				2.11	mg/kg		1.558	mg/kg	0.000156 %	✓	
		601-032-00-3	200-028-5	50-32-8									
20	●	indeno[123-cd]pyrene				1.26	mg/kg		0.931	mg/kg	0.0000931 %	✓	
			205-893-2	193-39-5									
21		dibenz[a,h]anthracene				<0.4	mg/kg		<0.4	mg/kg	<0.00004 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
22	●	benzo[ghi]perylene				1.42	mg/kg		1.049	mg/kg	0.000105 %	✓	
			205-883-8	191-24-2									
23		benzo[b]fluoranthene				2.94	mg/kg		2.171	mg/kg	0.000217 %	✓	
		601-034-00-4	205-911-9	205-99-2									
24		benzo[k]fluoranthene				1.15	mg/kg		0.849	mg/kg	0.0000849 %	✓	
		601-036-00-5	205-916-6	207-08-9									
25	●	dichlorodifluoromethane				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
			200-893-9	75-71-8									
26		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
27		chloromethane; methyl chloride				11	µg/kg		0.0081	mg/kg	0.000000812 %	✓	
		602-001-00-7	200-817-4	74-87-3									
28		bromomethane; methylbromide				<1	µg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-002-00-2	200-813-2	74-83-9									
29		chloroethane				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-009-00-0	200-830-5	75-00-3									
30	●	trichlorofluoromethane				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
			200-892-3	75-69-4									
31		1,1-dichloroethylene; vinylidene chloride				<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
32		dichloromethane; methylene chloride				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
		602-004-00-3	200-838-9	75-09-2									
33		1,1-dichloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-011-00-1	200-863-5	75-34-3									
34	●	2,2-dichloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
			209-832-0	594-20-7									
35	●	bromochloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
			200-826-3	74-97-5									
36		chloroform; trichloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-006-00-4	200-663-8	67-66-3									
37		1,1,1-trichloroethane; methyl chloroform				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
38		1,1-dichloropropene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-031-00-0	209-253-3	563-58-6									
39		carbon tetrachloride; tetrachloromethane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
40	●	1,1-dichloroethane and 1,2-dichloroethane (combined)				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3									
41		trichloroethylene; trichloroethene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
42		1,2-dichloropropane; propylene dichloride				<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		602-020-00-0	201-152-2	78-87-5									
43		dibromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		602-003-00-8	200-824-2	74-95-3									
44	●	bromodichloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
			200-856-7	75-27-4									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
45		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
46	●	trans-1,3-dichloropropene		431-460-4	10061-02-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
47		1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
48		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
49	●	1,3-dichloropropane		205-531-3	142-28-9		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
50	●	dibromochloromethane		204-704-0	124-48-1		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
51		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
52		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
53	●	1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
54		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
55		1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
56		bromobenzene	602-060-00-9	203-623-8	108-86-1		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
57		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
58	●	tert-butylbenzene		202-632-4	98-06-6		<5	µg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
59	●	sec-butylbenzene		205-227-0	135-98-8		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
60		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
61		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
62	●	n-butylbenzene		203-209-7	104-51-8		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
63		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
64		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
65		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
66	●	hexachlorobutadiene		201-765-5	87-68-3		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
67	●	1,2,3-trichlorobenzene		201-757-1	87-61-6		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
68		benzene	601-020-00-8	200-753-7	71-43-2		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
69		toluene	601-021-00-3	203-625-9	108-88-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
70	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
71		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		106	µg/kg		0.0783	mg/kg	0.00000783 %	✓	
72		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		459	µg/kg		0.339	mg/kg	0.0000339 %	✓	
73	●	4-isopropyltoluene		202-796-7	99-87-6		314	µg/kg		0.232	mg/kg	0.0000232 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
74		vinyl chloride; chloroethylene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
75		styrene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
76		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
77		2-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-857-5	88-75-5									
78		2,4-dichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
79		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
80		2,4,5-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
81		2,4,6-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
82		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
83		4-nitrophenol; p-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		609-015-00-2	202-811-7	100-02-7									
84		pentachlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-002-00-8	201-778-6	87-86-5									
85		phenol				383	µg/kg		0.283	mg/kg	0.0000283 %	✓	
		604-001-00-2	203-632-7	108-95-2									
86		2-chloronaphthalene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-079-9	91-58-7									
87		2-methyl naphthalene				3627	µg/kg		2.679	mg/kg	0.000268 %	✓	
			202-078-3	91-57-6									
88		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				3913	µg/kg		2.89	mg/kg	0.000289 %	✓	
		607-317-00-9	204-211-0	117-81-7									
89		BBP; benzyl butyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
90		dibutyl phthalate; DBP				672	µg/kg		0.496	mg/kg	0.0000496 %	✓	
		607-318-00-4	201-557-4	84-74-2									
91		di-n-octyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-214-7	117-84-0									
92		diethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
93		dimethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
94		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
95		2,6-dinitrotoluene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
96		4-bromophenylphenylether				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-952-4	101-55-3									
97		4-chloroaniline				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
98		4-chlorophenylphenylether				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			230-281-7	7005-72-3									
99		azobenzene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
100		bis(2-chloroethoxy)methane				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-920-2	111-91-1									
101		bis(2-chloroethyl) ether				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
102		carbazole				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			201-696-0	86-74-8									
103		dibenzofuran				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-071-3	132-64-9									
104		hexachlorobenzene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
105		hexachlorocyclopentadiene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-078-00-7	201-029-3	77-47-4									
106		hexachloroethane				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-666-4	67-72-1									
107		3,5,5-trimethylcyclohex-2-enone; isophorone				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
108		nitrosodipropylamine				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		612-098-00-8	210-698-0	621-64-7									
109		nitrobenzene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
110		chromium { chromium(III) oxide (worst case) }				66.3	mg/kg	1.462	71.567	mg/kg	0.00716 %	✓	
			215-160-9	1308-38-9									
111		xylene				0.04	mg/kg		0.0295	mg/kg	0.00000295 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
112		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
113		cumene; [1] propylbenzene [2]				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
114		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
115		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				429	µg/kg		0.317	mg/kg	0.0000317 %	✓	
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
116		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<30	µg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.322 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00003%)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

mesitylene; 1,3,5-trimethylbenzene: (conc.: 7.83e-06%)
1,2,4-trimethylbenzene: (conc.: 0.00003%)
4-isopropyltoluene: (conc.: 0.00002%)
xylene: (conc.: 2.95e-06%)

HP 3(iv): Flammable "flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa"
Force this Hazardous property to non hazardous because No free phase contamination encountered.

Hazard Statements hit:

Flam. Gas 1; H220 "Extremely flammable gas."

Because of determinand:

chloromethane; methyl chloride: (conc.: 8.12e-07%)

Classification of sample: HP12-12/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP12-12/05/2023-0.50m
Moisture content:
25.8%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25.8% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				10.6 mg/kg	1.895	15.963 mg/kg	0.0016 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		**<LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		254 mg/kg	3.929	793.306 mg/kg	0.0793 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	204 mg/kg	1.57	254.578 mg/kg	0.0162 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.2 mg/kg	1.419	0.226 mg/kg	0.0000226 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		21.9 mg/kg	5.324	92.689 mg/kg	0.00927 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		**<LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		210 mg/kg	4.398	734.153 mg/kg	0.0734 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		**<LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		190 µg/kg		0.151 mg/kg	0.0000151 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.14 mg/kg		0.111 mg/kg	0.0000111 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.21 mg/kg		0.167 mg/kg	0.0000167 %	✓	
13	fluorene		201-695-5	86-73-7		0.19 mg/kg		0.151 mg/kg	0.0000151 %	✓	
14	phenanthrene		201-581-5	85-01-8		2.15 mg/kg		1.709 mg/kg	0.000171 %	✓	
15	anthracene		204-371-1	120-12-7		0.6 mg/kg		0.477 mg/kg	0.0000477 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		4.05	mg/kg		3.219	mg/kg	0.000322 %	✓	
17		pyrene	204-927-3	129-00-0		3.82	mg/kg		3.037	mg/kg	0.000304 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		2	mg/kg		1.59	mg/kg	0.000159 %	✓	
19		chrysene	205-923-4	218-01-9		2.16	mg/kg		1.717	mg/kg	0.000172 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		2.34	mg/kg		1.86	mg/kg	0.000186 %	✓	
21		indeno[123-cd]pyrene	205-893-2	193-39-5		1.22	mg/kg		0.97	mg/kg	0.000097 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.25	mg/kg		0.199	mg/kg	0.0000199 %	✓	
23		benzo[ghi]perylene	205-883-8	191-24-2		1.33	mg/kg		1.057	mg/kg	0.000106 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		2.63	mg/kg		2.091	mg/kg	0.000209 %	✓	
25		benzo[k]fluoranthene	205-916-6	207-08-9		1.02	mg/kg		0.811	mg/kg	0.0000811 %	✓	
26		pH		PH		7.65	pH		7.65	pH	7.65 pH		
27		dichlorodifluoromethane	200-893-9	75-71-8		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	216-653-1	1634-04-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
29		chloromethane; methyl chloride	200-817-4	74-87-3		8	µg/kg		0.0063	mg/kg	0.000000636 %	✓	
30		bromomethane; methylbromide	200-813-2	74-83-9		<1	µg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31		chloroethane	200-830-5	75-00-3		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
32		trichlorofluoromethane	200-892-3	75-69-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
33		1,1-dichloroethylene; vinylidene chloride	200-864-0	75-35-4		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
34		dichloromethane; methylene chloride	200-838-9	75-09-2		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
35		1,1-dichloroethane	200-863-5	75-34-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
36		2,2-dichloropropane	209-832-0	594-20-7		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		bromochloromethane	200-826-3	74-97-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
38		chloroform; trichloromethane	200-663-8	67-66-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
39		1,1,1-trichloroethane; methyl chloroform	200-756-3	71-55-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
40		1,1-dichloropropene	209-253-3	563-58-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
41		carbon tetrachloride; tetrachloromethane	200-262-8	56-23-5		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
42		1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
43		trichloroethylene; trichloroethene	201-167-4	79-01-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
44		1,2-dichloropropane; propylene dichloride	201-152-2	78-87-5		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
45		dibromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
46	●	bromodichloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			200-856-7	75-27-4									
47		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
48	●	trans-1,3-dichloropropene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			431-460-4	10061-02-6									
49		1,1,2-trichloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
50		tetrachloroethylene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
51	●	1,3-dichloropropane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			205-531-3	142-28-9									
52	●	dibromochloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			204-704-0	124-48-1									
53		1,2-dibromoethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
54		chlorobenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
55	●	1,1,1,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			211-135-1	630-20-6									
56		bromoform; tribromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
57		1,1,2,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
58		bromobenzene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
59		1,2,3-trichloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
60	●	tert-butylbenzene				<5	µg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
			202-632-4	98-06-6									
61	●	sec-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			205-227-0	135-98-8									
62		1,3-dichlorbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
63		1,4-dichlorobenzene; p-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
64	●	n-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			203-209-7	104-51-8									
65		1,2-dichlorobenzene; o-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
66		1,2-dibromo-3-chloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
67		1,2,4-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
68	●	hexachlorobutadiene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			201-765-5	87-68-3									
69	●	1,2,3-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
			201-757-1	87-61-6									
70		benzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
71		toluene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
72	●	ethylbenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
73		mesitylene; 1,3,5-trimethylbenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-025-00-5	203-604-4	108-67-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
74		1,2,4-trimethylbenzene				<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		601-043-00-3	202-436-9	95-63-6									
75	●	4-isopropyltoluene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
			202-796-7	99-87-6									
76		vinyl chloride; chloroethylene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
77		styrene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		601-026-00-0	202-851-5	100-42-5									
78		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
79	●	2-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-857-5	88-75-5									
80		2,4-dichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
81		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
82		2,4,5-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-017-00-X	202-467-8	95-95-4									
83		2,4,6-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-018-00-5	201-795-9	88-06-2									
84		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									
85		4-nitrophenol; p-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-015-00-2	202-811-7	100-02-7									
86		pentachlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
87		phenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
88	●	2-chloronaphthalene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			202-079-9	91-58-7									
89	●	2-methyl naphthalene				53	µg/kg		0.0421	mg/kg	0.00000421 %	✓	
			202-078-3	91-57-6									
90		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				146	µg/kg		0.116	mg/kg	0.0000116 %	✓	
		607-317-00-9	204-211-0	117-81-7									
91		BBP; benzyl butyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
92		dibutyl phthalate; DBP				166	µg/kg		0.132	mg/kg	0.0000132 %	✓	
		607-318-00-4	201-557-4	84-74-2									
93	●	di-n-octyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-214-7	117-84-0									
94	●	diethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
95	●	dimethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-011-6	131-11-3									
96		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
97		2,6-dinitrotoluene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-049-00-8	210-106-0	606-20-2									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
98		4-bromophenylphenylether		202-952-4	101-55-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		4-chloroaniline	612-137-00-9	203-401-0	106-47-8		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		4-chlorophenylphenylether		230-281-7	7005-72-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
101		azobenzene	611-001-00-6	203-102-5	103-33-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
102		bis(2-chloroethoxy)methane		203-920-2	111-91-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
103		bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
104		carbazole		201-696-0	86-74-8		69	µg/kg		0.0548	mg/kg	0.00000548 %	✓	
105		dibenzofuran		205-071-3	132-64-9		45	µg/kg		0.0358	mg/kg	0.00000358 %	✓	
106		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
107		hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
108		hexachloroethane		200-666-4	67-72-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
109		3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
110		nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
111		nitrobenzene	609-003-00-7	202-716-0	98-95-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
112		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
113		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
114		cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
115		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
116		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<20	µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
117		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<30	µg/kg		<0.03	mg/kg	<0.000003 %		<LOD
118		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		47.5	mg/kg	1.462	55.186	mg/kg	0.00552 %	✓	
											Total:	0.188 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00002%)

HP 3(iv): Flammable "flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa"

Force this Hazardous property to non hazardous because No free phase contamination encountered.

Hazard Statements hit:

Flam. Gas 1; H220 "Extremely flammable gas."

Because of determinand:

chloromethane; methyl chloride: (conc.: 6.36e-07%)

Classification of sample: HP13-12/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
HP13-12/05/2023-0.50m
Moisture content:
13.2%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.2% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				12.9 mg/kg	1.895	21.59 mg/kg	0.00216 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		5.5 mg/kg	1.855	9.011 mg/kg	0.000901 %	✓	
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		37 mg/kg	3.929	128.423 mg/kg	0.0128 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	142 mg/kg	1.57	196.93 mg/kg	0.0125 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<**LOD**
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		11 mg/kg	5.324	51.738 mg/kg	0.00517 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		158 mg/kg	4.398	613.845 mg/kg	0.0614 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		480 µg/kg		0.424 mg/kg	0.0000424 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.29 mg/kg		0.256 mg/kg	0.0000256 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.83 mg/kg		0.733 mg/kg	0.0000733 %	✓	
13	fluorene		201-695-5	86-73-7		0.62 mg/kg		0.548 mg/kg	0.0000548 %	✓	
14	phenanthrene		201-581-5	85-01-8		6.59 mg/kg		5.822 mg/kg	0.000582 %	✓	
15	anthracene		204-371-1	120-12-7		1.27 mg/kg		1.122 mg/kg	0.000112 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				6.23	mg/kg		5.504	mg/kg	0.00055 %	✓	
			205-912-4	206-44-0									
17		pyrene				5.69	mg/kg		5.027	mg/kg	0.000503 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				2.67	mg/kg		2.359	mg/kg	0.000236 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				2.97	mg/kg		2.624	mg/kg	0.000262 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				2.57	mg/kg		2.27	mg/kg	0.000227 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				1.44	mg/kg		1.272	mg/kg	0.000127 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				0.23	mg/kg		0.203	mg/kg	0.0000203 %	✓	
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				1.53	mg/kg		1.352	mg/kg	0.000135 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				3.25	mg/kg		2.871	mg/kg	0.000287 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				1.26	mg/kg		1.113	mg/kg	0.000111 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				8.18	pH		8.18	pH	8.18 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26	mg/kg	1.462	33.569	mg/kg	0.00336 %	✓	
			215-160-9	1308-38-9									
										Total:	0.102 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP01-11/05/2023-1.00m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP01-11/05/2023-1.00m
Moisture content:
30.1%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30.1% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				25.3 mg/kg	1.895	36.842 mg/kg	0.00368 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		192 mg/kg	3.929	579.845 mg/kg	0.058 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	1095 mg/kg	1.57	1321.319 mg/kg	0.0842 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.4 mg/kg	1.419	0.436 mg/kg	0.0000436 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		42.8 mg/kg	5.324	175.158 mg/kg	0.0175 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		225 mg/kg	4.398	760.594 mg/kg	0.0761 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		20670 µg/kg		15.888 mg/kg	0.00159 %	✓	
11	acenaphthylene		205-917-1	208-96-8		9.21 mg/kg		7.079 mg/kg	0.000708 %	✓	
12	acenaphthene		201-469-6	83-32-9		24.97 mg/kg		19.193 mg/kg	0.00192 %	✓	
13	fluorene		201-695-5	86-73-7		24.6 mg/kg		18.909 mg/kg	0.00189 %	✓	
14	phenanthrene		201-581-5	85-01-8		229.31 mg/kg		176.257 mg/kg	0.0176 %	✓	
15	anthracene		204-371-1	120-12-7		58.04 mg/kg		44.612 mg/kg	0.00446 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16	●	fluoranthene		205-912-4	206-44-0		208.62	mg/kg		160.354	mg/kg	0.016 %	✓	
17	●	pyrene		204-927-3	129-00-0		216.46	mg/kg		166.38	mg/kg	0.0166 %	✓	
18		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		112.94	mg/kg		86.81	mg/kg	0.00868 %	✓	
19		chrysene	601-048-00-0	205-923-4	218-01-9		110.74	mg/kg		85.119	mg/kg	0.00851 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		95.13	mg/kg		73.121	mg/kg	0.00731 %	✓	
21	●	indeno[123-cd]pyrene		205-893-2	193-39-5		45.35	mg/kg		34.858	mg/kg	0.00349 %	✓	
22		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		12.07	mg/kg		9.277	mg/kg	0.000928 %	✓	
23	●	benzo[ghi]perylene		205-883-8	191-24-2		50.58	mg/kg		38.878	mg/kg	0.00389 %	✓	
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		105.86	mg/kg		81.368	mg/kg	0.00814 %	✓	
25		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		41.17	mg/kg		31.645	mg/kg	0.00316 %	✓	
26	●	pH			PH		8.06	pH		8.06	pH	8.06 pH		
27	●	dichlorodifluoromethane		200-893-9	75-71-8		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
29		chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
30		bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9		<1	µg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
31		chloroethane	602-009-00-0	200-830-5	75-00-3		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
32	●	trichlorofluoromethane		200-892-3	75-69-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
33		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
34		dichloromethane; methylene chloride	602-004-00-3	200-838-9	75-09-2		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
35		1,1-dichloroethane	602-011-00-1	200-863-5	75-34-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
36	●	2,2-dichloropropane		209-832-0	594-20-7		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
37	●	bromochloromethane		200-826-3	74-97-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
38		chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
39		1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
40		1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
41		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
42	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
43		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
44		1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
45		dibromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
46	●	bromodichloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			200-856-7	75-27-4									
47		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
48	●	trans-1,3-dichloropropene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			431-460-4	10061-02-6									
49		1,1,2-trichloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
50		tetrachloroethylene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
51	●	1,3-dichloropropane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			205-531-3	142-28-9									
52	●	dibromochloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			204-704-0	124-48-1									
53		1,2-dibromoethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
54		chlorobenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
55	●	1,1,1,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			211-135-1	630-20-6									
56		bromoform; tribromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
57		1,1,2,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
58		bromobenzene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
59		1,2,3-trichloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
60	●	tert-butylbenzene				<5	µg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
			202-632-4	98-06-6									
61	●	sec-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			205-227-0	135-98-8									
62		1,3-dichlorbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
63		1,4-dichlorobenzene; p-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
64	●	n-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			203-209-7	104-51-8									
65		1,2-dichlorobenzene; o-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
66		1,2-dibromo-3-chloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
67		1,2,4-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
68	●	hexachlorobutadiene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			201-765-5	87-68-3									
69	●	1,2,3-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
			201-757-1	87-61-6									
70		benzene				9	µg/kg		0.0069	mg/kg	0.000000692 %	✓	
		601-020-00-8	200-753-7	71-43-2									
71		toluene				17	µg/kg		0.0131	mg/kg	0.00000131 %	✓	
		601-021-00-3	203-625-9	108-88-3									
72	●	ethylbenzene				22	µg/kg		0.0169	mg/kg	0.00000169 %	✓	
		601-023-00-4	202-849-4	100-41-4									
73		mesitylene; 1,3,5-trimethylbenzene				30	µg/kg		0.0231	mg/kg	0.00000231 %	✓	
		601-025-00-5	203-604-4	108-67-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
74		1,2,4-trimethylbenzene				129	µg/kg		0.0992	mg/kg	0.00000992 %	✓	
		601-043-00-3	202-436-9	95-63-6									
75	●	4-isopropyltoluene				22	µg/kg		0.0169	mg/kg	0.00000169 %	✓	
			202-796-7	99-87-6									
76		vinyl chloride; chloroethylene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
77		styrene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
		601-026-00-0	202-851-5	100-42-5									
78		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
79	●	2-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-857-5	88-75-5									
80		2,4-dichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
81		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				1311	µg/kg		1.008	mg/kg	0.000101 %	✓	
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
82		2,4,5-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-017-00-X	202-467-8	95-95-4									
83		2,4,6-trichlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-018-00-5	201-795-9	88-06-2									
84		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									
85		4-nitrophenol; p-nitrophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-015-00-2	202-811-7	100-02-7									
86		pentachlorophenol				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
87		phenol				1242	µg/kg		0.955	mg/kg	0.0000955 %	✓	
		604-001-00-2	203-632-7	108-95-2									
88	●	2-chloronaphthalene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			202-079-9	91-58-7									
89	●	2-methyl naphthalene				9640	µg/kg		7.41	mg/kg	0.000741 %	✓	
			202-078-3	91-57-6									
90		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				316	µg/kg		0.243	mg/kg	0.0000243 %	✓	
		607-317-00-9	204-211-0	117-81-7									
91		BBP; benzyl butyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
92		dibutyl phthalate; DBP				159	µg/kg		0.122	mg/kg	0.0000122 %	✓	
		607-318-00-4	201-557-4	84-74-2									
93	●	di-n-octyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-214-7	117-84-0									
94	●	diethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
95	●	dimethyl phthalate				<100	µg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-011-6	131-11-3									
96		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
97		2,6-dinitrotoluene				<10	µg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		609-049-00-8	210-106-0	606-20-2									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
98		4-bromophenylphenylether		202-952-4	101-55-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		4-chloroaniline	612-137-00-9	203-401-0	106-47-8		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		4-chlorophenylphenylether		230-281-7	7005-72-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
101		azobenzene	611-001-00-6	203-102-5	103-33-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
102		bis(2-chloroethoxy)methane		203-920-2	111-91-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
103		bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
104		carbazole		201-696-0	86-74-8		16162	µg/kg		12.423	mg/kg	0.00124 %	✓	
105		dibenzofuran		205-071-3	132-64-9		9531	µg/kg		7.326	mg/kg	0.000733 %	✓	
106		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
107		hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
108		hexachloroethane		200-666-4	67-72-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
109		3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
110		nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
111		nitrobenzene	609-003-00-7	202-716-0	98-95-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
112		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.147	mg/kg		0.113	mg/kg	0.0000113 %	✓	
113		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
114		cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
115		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
116		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		2561	µg/kg		1.968	mg/kg	0.000197 %	✓	
117		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<30	µg/kg		<0.03	mg/kg	<0.000003 %		<LOD
118		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		46	mg/kg	1.462	51.677	mg/kg	0.00517 %	✓	
											Total:	0.353 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00004%)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 6.92e-07%)
toluene: (conc.: 1.31e-06%)
ethylbenzene: (conc.: 1.69e-06%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

mesitylene; 1,3,5-trimethylbenzene: (conc.: 2.31e-06%)
1,2,4-trimethylbenzene: (conc.: 9.92e-06%)
4-isopropyltoluene: (conc.: 1.69e-06%)
xylene: (conc.: 0.00001%)

Classification of sample: TP02-11/05/2023-0.50m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP02-11/05/2023-0.50m
Moisture content:
14.7%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14.7% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				17 mg/kg	1.895	28.079 mg/kg	0.00281 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		100 mg/kg	3.929	342.55 mg/kg	0.0343 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	319 mg/kg	1.57	436.614 mg/kg	0.0278 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.3 mg/kg	1.419	0.371 mg/kg	0.0000371 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		20.9 mg/kg	5.324	97.016 mg/kg	0.0097 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		199 mg/kg	4.398	763.023 mg/kg	0.0763 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		810 µg/kg		0.706 mg/kg	0.0000706 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.34 mg/kg		0.296 mg/kg	0.0000296 %	✓	
12	acenaphthene		201-469-6	83-32-9		1.66 mg/kg		1.447 mg/kg	0.000145 %	✓	
13	fluorene		201-695-5	86-73-7		1.45 mg/kg		1.264 mg/kg	0.000126 %	✓	
14	phenanthrene		201-581-5	85-01-8		11.18 mg/kg		9.747 mg/kg	0.000975 %	✓	
15	anthracene		204-371-1	120-12-7		3.21 mg/kg		2.799 mg/kg	0.00028 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		13.88	mg/kg		12.101	mg/kg	0.00121 %	✓	
17		pyrene	204-927-3	129-00-0		12.3	mg/kg		10.724	mg/kg	0.00107 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		5.99	mg/kg		5.222	mg/kg	0.000522 %	✓	
19		chrysene	205-923-4	218-01-9		6.47	mg/kg		5.641	mg/kg	0.000564 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		6.45	mg/kg		5.623	mg/kg	0.000562 %	✓	
21		indeno[123-cd]pyrene	205-893-2	193-39-5		3.61	mg/kg		3.147	mg/kg	0.000315 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.55	mg/kg		0.48	mg/kg	0.000048 %	✓	
23		benzo[ghi]perylene	205-883-8	191-24-2		3.68	mg/kg		3.208	mg/kg	0.000321 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		7.46	mg/kg		6.504	mg/kg	0.00065 %	✓	
25		benzo[k]fluoranthene	205-916-6	207-08-9		2.9	mg/kg		2.528	mg/kg	0.000253 %	✓	
26		pH		PH		8.11	pH		8.11	pH	8.11 pH		
27		dichlorodifluoromethane	200-893-9	75-71-8		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	216-653-1	1634-04-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
29		chloromethane; methyl chloride	200-817-4	74-87-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
30		bromomethane; methylbromide	200-813-2	74-83-9		<1	µg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31		chloroethane	200-830-5	75-00-3		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
32		trichlorofluoromethane	200-892-3	75-69-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
33		1,1-dichloroethylene; vinylidene chloride	200-864-0	75-35-4		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
34		dichloromethane; methylene chloride	200-838-9	75-09-2		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
35		1,1-dichloroethane	200-863-5	75-34-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
36		2,2-dichloropropane	209-832-0	594-20-7		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37		bromochloromethane	200-826-3	74-97-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
38		chloroform; trichloromethane	200-663-8	67-66-3		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
39		1,1,1-trichloroethane; methyl chloroform	200-756-3	71-55-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
40		1,1-dichloropropene	209-253-3	563-58-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
41		carbon tetrachloride; tetrachloromethane	200-262-8	56-23-5		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
42		1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
43		trichloroethylene; trichloroethene	201-167-4	79-01-6		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
44		1,2-dichloropropane; propylene dichloride	201-152-2	78-87-5		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD

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		EU CLP index number	EC Number	CAS Number									
45		dibromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
46	●	bromodichloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			200-856-7	75-27-4									
47		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
48	●	trans-1,3-dichloropropene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			431-460-4	10061-02-6									
49		1,1,2-trichloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
50		tetrachloroethylene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
51	●	1,3-dichloropropane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			205-531-3	142-28-9									
52	●	dibromochloromethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			204-704-0	124-48-1									
53		1,2-dibromoethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
54		chlorobenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
55	●	1,1,1,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
			211-135-1	630-20-6									
56		bromoform; tribromomethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
57		1,1,2,2-tetrachloroethane				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
58		bromobenzene				<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
59		1,2,3-trichloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
60	●	tert-butylbenzene				<5	µg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
			202-632-4	98-06-6									
61	●	sec-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			205-227-0	135-98-8									
62		1,3-dichlorbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
63		1,4-dichlorobenzene; p-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
64	●	n-butylbenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			203-209-7	104-51-8									
65		1,2-dichlorobenzene; o-dichlorobenzene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
66		1,2-dibromo-3-chloropropane				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
67		1,2,4-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
68	●	hexachlorobutadiene				<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
			201-765-5	87-68-3									
69	●	1,2,3-trichlorobenzene				<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
			201-757-1	87-61-6									
70		benzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
71		toluene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
72	●	ethylbenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
73		mesitylene; 1,3,5-trimethylbenzene				<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-025-00-5	203-604-4	108-67-8									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
74		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		8	µg/kg		0.0069	mg/kg	0.000000697 %	✓	
75	●	4-isopropyltoluene		202-796-7	99-87-6		<4	µg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
76		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<2	µg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
77		styrene	601-026-00-0	202-851-5	100-42-5		<3	µg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
78		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79	●	2-nitrophenol		201-857-5	88-75-5		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		pentachlorophenol	604-002-00-8	201-778-6	87-86-5		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		phenol	604-001-00-2	203-632-7	108-95-2		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88	●	2-chloronaphthalene		202-079-9	91-58-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89	●	2-methyl naphthalene		202-078-3	91-57-6		349	µg/kg		0.304	mg/kg	0.0000304 %	✓	
90		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7		354	µg/kg		0.309	mg/kg	0.0000309 %	✓	
91		BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7		<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
92		dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2		171	µg/kg		0.149	mg/kg	0.0000149 %	✓	
93	●	di-n-octyl phthalate		204-214-7	117-84-0		<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
94	●	diethyl phthalate		201-550-6	84-66-2		<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
95	●	dimethyl phthalate		205-011-6	131-11-3		<100	µg/kg		<0.1	mg/kg	<0.00001 %		<LOD
96		2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD

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98		4-bromophenylphenylether		202-952-4	101-55-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		4-chloroaniline	612-137-00-9	203-401-0	106-47-8		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		4-chlorophenylphenylether		230-281-7	7005-72-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
101		azobenzene	611-001-00-6	203-102-5	103-33-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
102		bis(2-chloroethoxy)methane		203-920-2	111-91-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
103		bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
104		carbazole		201-696-0	86-74-8		473	µg/kg		0.412	mg/kg	0.0000412 %	✓	
105		dibenzofuran		205-071-3	132-64-9		299	µg/kg		0.261	mg/kg	0.0000261 %	✓	
106		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
107		hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
108		hexachloroethane		200-666-4	67-72-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
109		3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
110		nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
111		nitrobenzene	609-003-00-7	202-716-0	98-95-3		<10	µg/kg		<0.01	mg/kg	<0.000001 %		<LOD
112		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
113		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
114		cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<7	µg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
115		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<6	µg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
116		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<20	µg/kg		<0.02	mg/kg	<0.000002 %		<LOD
117		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<30	µg/kg		<0.03	mg/kg	<0.000003 %		<LOD
118		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		46.9	mg/kg	1.462	59.762	mg/kg	0.00598 %	✓	
											Total:	0.165 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00003%)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"
Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

1,2,4-trimethylbenzene: (conc.: 6.97e-07%)

Classification of sample: TP03-11/05/2023-1.00m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP03-11/05/2023-1.00m
Moisture content:
17.5%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.5% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				10.2	mg/kg	1.895	16.446	mg/kg	0.00164 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		361	mg/kg	3.929	1207.139	mg/kg	0.121 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	98	mg/kg	1.57	130.936	mg/kg	0.00834 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.3	mg/kg	1.419	0.362	mg/kg	0.0000362 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		18.7	mg/kg	5.324	84.736	mg/kg	0.00847 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		117	mg/kg	4.398	437.921	mg/kg	0.0438 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		260	µg/kg		0.221	mg/kg	0.0000221 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.13	mg/kg		0.111	mg/kg	0.0000111 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.28	mg/kg		0.238	mg/kg	0.0000238 %	✓	
13	fluorene		201-695-5	86-73-7		0.27	mg/kg		0.23	mg/kg	0.000023 %	✓	
14	phenanthrene		201-581-5	85-01-8		2.24	mg/kg		1.906	mg/kg	0.000191 %	✓	
15	anthracene		204-371-1	120-12-7		0.63	mg/kg		0.536	mg/kg	0.0000536 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene	205-912-4	206-44-0		3.01	mg/kg		2.562	mg/kg	0.000256 %	✓	
17		pyrene	204-927-3	129-00-0		3.11	mg/kg		2.647	mg/kg	0.000265 %	✓	
18		benzo[a]anthracene	200-280-6	56-55-3		1.53	mg/kg		1.302	mg/kg	0.00013 %	✓	
		601-033-00-9											
19		chrysene	205-923-4	218-01-9		1.69	mg/kg		1.438	mg/kg	0.000144 %	✓	
		601-048-00-0											
20		benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		1.88	mg/kg		1.6	mg/kg	0.00016 %	✓	
		601-032-00-3											
21		indeno[123-cd]pyrene	205-893-2	193-39-5		1.03	mg/kg		0.877	mg/kg	0.0000877 %	✓	
22		dibenz[a,h]anthracene	200-181-8	53-70-3		0.22	mg/kg		0.187	mg/kg	0.0000187 %	✓	
		601-041-00-2											
23		benzo[ghi]perylene	205-883-8	191-24-2		0.99	mg/kg		0.843	mg/kg	0.0000843 %	✓	
24		benzo[b]fluoranthene	205-911-9	205-99-2		1.98	mg/kg		1.685	mg/kg	0.000169 %	✓	
		601-034-00-4											
25		benzo[k]fluoranthene	205-916-6	207-08-9		0.77	mg/kg		0.655	mg/kg	0.0000655 %	✓	
		601-036-00-5											
26		pH		PH		8.6	pH		8.6	pH	8.6 pH		
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		40.9	mg/kg	1.462	50.875	mg/kg	0.00509 %	✓	
										Total:	0.19 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00003%)

Classification of sample: TP04-11/05/2023-2.00m

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP04-11/05/2023-2.00m
Moisture content:
13.9%
(dry weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.9% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				7.4 mg/kg	1.895	12.309 mg/kg	0.00123 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<**LOD**
3	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		98 mg/kg	3.929	338.057 mg/kg	0.0338 %	✓	
4	lead { lead di(acetate) }	082-005-00-8	206-104-4	301-04-2	1	187 mg/kg	1.57	257.744 mg/kg	0.0164 %	✓	
5	mercury { mercury difulminate }	080-005-00-2	211-057-8	628-86-4		0.2 mg/kg	1.419	0.249 mg/kg	0.0000249 %	✓	
6	nickel { nickel diiodide }	028-029-00-4	236-666-6	13462-90-3		44.2 mg/kg	5.324	206.615 mg/kg	0.0207 %	✓	
7	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
8	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		136 mg/kg	4.398	525.125 mg/kg	0.0525 %	✓	
9	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<**LOD**
10	naphthalene	601-052-00-2	202-049-5	91-20-3		220 µg/kg		0.193 mg/kg	0.0000193 %	✓	
11	acenaphthylene		205-917-1	208-96-8		0.11 mg/kg		0.0966 mg/kg	0.00000966 %	✓	
12	acenaphthene		201-469-6	83-32-9		0.93 mg/kg		0.817 mg/kg	0.0000817 %	✓	
13	fluorene		201-695-5	86-73-7		0.91 mg/kg		0.799 mg/kg	0.0000799 %	✓	
14	phenanthrene		201-581-5	85-01-8		3.95 mg/kg		3.468 mg/kg	0.000347 %	✓	
15	anthracene		204-371-1	120-12-7		0.79 mg/kg		0.694 mg/kg	0.0000694 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluoranthene				3.8	mg/kg		3.336	mg/kg	0.000334 %	✓	
			205-912-4	206-44-0									
17		pyrene				3.57	mg/kg		3.134	mg/kg	0.000313 %	✓	
			204-927-3	129-00-0									
18		benzo[a]anthracene				1.64	mg/kg		1.44	mg/kg	0.000144 %	✓	
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				1.9	mg/kg		1.668	mg/kg	0.000167 %	✓	
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				1.29	mg/kg		1.133	mg/kg	0.000113 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				0.83	mg/kg		0.729	mg/kg	0.0000729 %	✓	
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				0.22	mg/kg		0.193	mg/kg	0.0000193 %	✓	
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				0.92	mg/kg		0.808	mg/kg	0.0000808 %	✓	
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				1.66	mg/kg		1.457	mg/kg	0.000146 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.64	mg/kg		0.562	mg/kg	0.0000562 %	✓	
		601-036-00-5	205-916-6	207-08-9									
26		pH				7.76	pH		7.76	pH	7.76 pH		
				PH									
27		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				59.5	mg/kg	1.462	76.35	mg/kg	0.00763 %	✓	
			215-160-9	1308-38-9									
										Total:	0.135 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 1: Explosive "waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included"

Force this Hazardous property to non hazardous because No free phase contamination encountered

Hazard Statements hit:

Unst. Expl.; H200 "Unstable explosives"

Because of determinand:

mercury difulminate: (compound conc.: 0.00002%)