



Final Report

Report No.:	21-03753-1		
Initial Date of Issue:	15-Feb-2021		
Client	Idom Merebrook Ltd		
Client Address:	Cromford Mills Mill Lane Matlock Derbyshire DE4 3RQ		
Contact(s):	Tim Crowe		
Project	21988 Merthyr Tydfil Hospital		
Quotation No.:		Date Received:	09-Feb-2021
Order No.:	21-3-FDO-LABS	Date Instructed:	09-Feb-2021
No. of Samples:	25		
Turnaround (Wkdays):	5	Results Due:	15-Feb-2021
Date Approved:	15-Feb-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Bulk Identification Certificate

Client: Idom Merebrook Ltd

Site Address:

Date Sampled: 02-Feb-2021

Date Received: 09-Feb-2021

Your Ref.:

Project: 21988 Merthyr Tydfil Hospital

Job Number: 21-03753

No Samples:

Date Reported: 15-Feb-2021

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1138336		Stockpile 9D asbestos				2185	U	COVENTRY	Cement	Chrysotile
1138339		Stockpile 6C asbestos				2185	U	COVENTRY	-	No Asbestos Detected
1138340		Stockpile 6B asbestos		5		2185	U	COVENTRY	-	No Asbestos Detected

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Bulk Identification Certificate

Client: Idom Merebrook Ltd

Site Address:

Date Sampled: 03-Feb-2021

Date Received: 09-Feb-2021

Your Ref.:

Project: 21988 Merthyr Tydfil Hospital

Job Number: 21-03753

No Samples:

Date Reported: 15-Feb-2021

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1138337		Stockpile 9D insulation				2185	U	COVENTRY	-	No Asbestos Detected
1138338		Stockpile 7B asbestos till				2185	U	COVENTRY	Cement	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Bulk Identification Certificate

Client: Idom Merebrook Ltd

Site Address:

Date Sampled: 04-Feb-2021

Date Received: 09-Feb-2021

Your Ref.:

Project: 21988 Merthyr Tydfil Hospital

Job Number: 21-03753

No Samples:

Date Reported: 15-Feb-2021

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1138345		Green Tile (Surface bulk)				2185	U	COVENTRY	floor tile	Chrysotile
1138346	(Surface bulk)	White Speck Tile				2185	U	COVENTRY	-	No Asbestos Detected
1138347	(Surface bulk)	Packed Plastic				2185	U	COVENTRY	-	No Asbestos Detected

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Results - Soil

Project: 21988 Merthyr Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753
Quotation No.:		Chemtest Sample ID.:		1138317	1138318	1138319	1138320	1138322	1138323	1138324	1138325
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		MWS02	MWS02	MWS03	MWS03	MWS05	MWS05	MWS05	MWS06
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0	1.4	0.6	0.5	0.4	1.6	2.7	0.4
		Bottom Depth (m):		0.9	1.6	0.9					
		Date Sampled:		04-Feb-2021	04-Feb-2021	04-Feb-2021	04-Feb-2021	05-Feb-2021	05-Feb-2021	05-Feb-2021	05-Feb-2021
		Asbestos Lab:		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A				Fibres/Clumps	-	-	-
Asbestos Identification	U	2192		N/A		No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A			-	Stereo Microscopy	-	-	-
Asbestos by Gravimetry	U	2192	%	0.001				<0.001			
Total Asbestos	U	2192	%	0.001				<0.001			
Moisture	N	2030	%	0.020	12	14		7.7	8.2	15	15
Soil Colour	N	2040		N/A	Brown	Brown		Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones		Stones	Stones	Stones	None
Soil Texture	N	2040		N/A	Sand	Clay		Sand	Sand	Clay	Clay
pH	M	2010		4.0	11.2	10.4		10.4	10.3	8.9	8.5
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.20	0.030		0.17	0.033	< 0.010	0.064
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	83	6.1		6.7	7.8	2.4	7.1
Arsenic	M	2450	mg/kg	1.0	24	13		19	16	6.5	18
Cadmium	M	2450	mg/kg	0.10	0.32	0.15		0.78	0.17	0.10	0.17
Chromium	M	2450	mg/kg	1.0	15	16		13	12	11	15
Mercury Low Level	M	2450	mg/kg	0.05	0.61	0.11		0.09	< 0.05	< 0.05	0.14
Copper	M	2450	mg/kg	0.50	31	25		24	15	17	23
Nickel	M	2450	mg/kg	0.50	22	26		20	18	16	20
Lead	M	2450	mg/kg	0.50	710	67		62	27	20	43
Selenium	M	2450	mg/kg	0.20	< 0.20	0.31		< 0.20	< 0.20	0.27	0.52
Zinc	M	2450	mg/kg	0.50	160	57		78	51	46	100
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	6.6	2.2		1.9	0.45	0.98	5.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	34	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	37	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0		< 5.0	100	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 21988 Merthyr Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753
Quotation No.:		Chemtest Sample ID.:		1138317	1138318	1138319	1138320	1138322	1138323	1138324	1138325	21-03753
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		MWS02	MWS02	MWS03	MWS03	MWS05	MWS05	MWS05	MWS06	MTP02
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0	1.4	0.6	0.5	0.4	1.6	2.7	0.4	1
		Bottom Depth (m):		0.9	1.6	0.9						
		Date Sampled:		04-Feb-2021	04-Feb-2021	04-Feb-2021	04-Feb-2021	05-Feb-2021	05-Feb-2021	05-Feb-2021	04-Feb-2021	05-Feb-2021
		Asbestos Lab:		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	35	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	100	< 1.0		< 1.0	47	< 1.0	58	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	600	< 1.0		< 1.0	< 1.0	< 1.0	590	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	700	< 5.0		< 5.0	82	< 5.0	650	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	700	< 10		< 10	180	< 10	650	< 10
Naphthalene	N	2700	mg/kg	0.010	1.3	0.25		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthylene	N	2700	mg/kg	0.010	1.2	0.25		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	2700	mg/kg	0.010	4.5	1.2		< 0.080	< 0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	2700	mg/kg	0.010	5.5	1.4		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	2700	mg/kg	0.010	57	10		0.64	< 0.010	< 0.010	< 0.010	< 0.010
Anthracene	N	2700	mg/kg	0.010	17	2.5		0.13	< 0.010	< 0.010	< 0.010	< 0.010
Fluoranthene	N	2700	mg/kg	0.010	130	15		0.91	< 0.010	< 0.010	< 0.010	< 0.010
Pyrene	N	2700	mg/kg	0.010	92	12		0.71	< 0.010	< 0.010	< 0.010	< 0.010
Benzol[a]anthracene	N	2700	mg/kg	0.010	54	7.1		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chrysene	N	2700	mg/kg	0.010	63	7.3		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzol[b]fluoranthene	N	2700	mg/kg	0.010	65	9.1		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzol[k]fluoranthene	N	2700	mg/kg	0.010	23	3.2		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzol[a]pyrene	N	2700	mg/kg	0.010	42	5.5		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	28	4.3		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibenz[a,h]Anthracene	N	2700	mg/kg	0.010	9.9	1.5		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Benzol[g,h,i]perylene	N	2700	mg/kg	0.010	23	4.0		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Of 16 PAH's	N	2700	mg/kg	0.20	620	85		2.8	< 0.20	< 0.20	< 0.20	< 0.20
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30		< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Results - Soil

Project: 21988 Merthyr Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753
Quotation No.:		Chemtest Sample ID.:		1138328	1138330	1138342	1138343	1138344	1138349	1138353
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		MTP03	MTP05	MTP12	MSP07	MSP07	MSP01	MSA04
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.5	0.4	0.6	0.3	1.1	0.4	0.9
		Bottom Depth (m):				0.8	0.4	1.2		1.0
		Date Sampled:		05-Feb-2021	05-Feb-2021	04-Feb-2021	04-Feb-2021	04-Feb-2021	08-Feb-2021	08-Feb-2021
		Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A	-	Fibres/Clumps	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	Stereo Microscopy	-	-	-	-
Asbestos by Gravimetry	U	2192	%	0.001		0.001				
Total Asbestos	U	2192	%	0.001		0.001				
Moisture	N	2030	%	0.020	11		22	9.1	10	
Soil Colour	N	2040		N/A	Brown		Brown	Brown	Brown	
Other Material	N	2040		N/A	Stones		Stones	Stones	Stones	
Soil Texture	N	2040		N/A	Sand		Sand	Sand	Sand	
pH	M	2010		4.0	9.0		9.0	9.0	8.9	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010		< 0.010	< 0.010	0.075	
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	7.4		6.1	1.8	25	
Arsenic	M	2450	mg/kg	1.0	27		27	5.8	23	
Cadmium	M	2450	mg/kg	0.10	0.21		0.44	< 0.10	0.37	
Chromium	M	2450	mg/kg	1.0	14		16	9.7	12	
Mercury Low Level	M	2450	mg/kg	0.05	0.13		0.66	< 0.05	0.31	
Copper	M	2450	mg/kg	0.50	18		48	14	44	
Nickel	M	2450	mg/kg	0.50	16		26	13	17	
Lead	M	2450	mg/kg	0.50	88		220	18	250	
Selenium	M	2450	mg/kg	0.20	< 0.20		1.4	0.25	< 0.20	
Zinc	M	2450	mg/kg	0.50	81		190	40	110	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	
Organic Matter	M	2625	%	0.40	5.0		17	0.43	15	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0	< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0	< 1.0	< 1.0	

Results - Soil

Project: 21988 Merthyr Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753	21-03753
Quotation No.:		Chemtest Sample ID.:	1138328	1138330	1138342	1138343	1138344	1138349	1138353	1138353
Order No.: 21-3-FDO-LABS		Client Sample Ref.:	MTP03	MTP05	MTP12	MSP07	MSP07	MSP01	MSA04	MSA04
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.5	0.4	0.6	0.3	1.1	0.4	0.9	0.9
		Bottom Depth (m):			0.8	0.4	1.2		1.0	1.0
		Date Sampled:	05-Feb-2021	05-Feb-2021	04-Feb-2021	04-Feb-2021	04-Feb-2021	08-Feb-2021	08-Feb-2021	08-Feb-2021
		Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	9.9	< 1.0	< 1.0	< 1.0	96	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	130	< 1.0	< 1.0	< 1.0	970	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	70	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	140	< 5.0	< 5.0	< 5.0	1100	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	140	< 10	< 10	< 10	1100	
Naphthalene	N	2700	mg/kg	0.010	< 0.010	0.39	< 0.010	< 0.010	2.0	
Acenaphthylene	N	2700	mg/kg	0.010	< 0.010	0.29	< 0.010	< 0.010	4.3	
Acenaphthene	N	2700	mg/kg	0.010	< 0.010	1.9	< 0.010	< 0.010	1.8	
Fluorene	N	2700	mg/kg	0.010	< 0.010	1.7	< 0.010	< 0.010	3.4	
Phenanthrene	N	2700	mg/kg	0.010	4.7	12	< 0.010	< 0.010	28	
Anthracene	N	2700	mg/kg	0.010	1.4	3.3	< 0.010	< 0.010	14	
Fluoranthene	N	2700	mg/kg	0.010	8.3	18	0.64	0.64	130	
Pyrene	N	2700	mg/kg	0.010	6.7	15	0.64	0.64	130	
Benzol[a]anthracene	N	2700	mg/kg	0.010	4.0	9.9	< 0.010	< 0.010	96	
Chrysene	N	2700	mg/kg	0.010	4.4	11	< 0.010	< 0.010	93	
Benzol[b]fluoranthene	N	2700	mg/kg	0.010	4.8	13	< 0.010	< 0.010	140	
Benzol[k]fluoranthene	N	2700	mg/kg	0.010	1.7	4.4	< 0.010	< 0.010	49	
Benzol[a]pyrene	N	2700	mg/kg	0.010	2.8	7.6	< 0.010	< 0.010	92	
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	1.9	5.7	< 0.010	< 0.010	63	
Dibenz[a,h]Anthracene	N	2700	mg/kg	0.010	0.77	2.1	< 0.010	< 0.010	21	
Benzol[g,h,i]perylene	N	2700	mg/kg	0.010	1.6	4.7	< 0.010	< 0.010	53	
Total Of 16 PAH's	N	2700	mg/kg	0.20	43	110	1.3	920	920	
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

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



Final Report

Report No.:	21-03782-1		
Initial Date of Issue:	17-Feb-2021		
Client	Idom Merebrook Ltd		
Client Address:	Cromford Mills Mill Lane Matlock Derbyshire DE4 3RQ		
Contact(s):	Tim Crowe		
Project	21988 Merthyl Tydfil Hospital		
Quotation No.:		Date Received:	05-Feb-2021
Order No.:	21-3-FDO-LABS	Date Instructed:	09-Feb-2021
No. of Samples:	34		
Turnaround (Wkdays):	6	Results Due:	16-Feb-2021
Date Approved:	17-Feb-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:		Chemtest Sample ID.:		1138511	1138512	1138513	1138515	1138517	1138518	1138519	1138520	21-03782
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 1A	Stockpile 1B	Stockpile 1C	Stockpile 2A	Stockpile 2C	Stockpile 2D	Stockpile 3	Stockpile 5A	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.5		1	2	1.4	1.6		2.8	
		Bottom Depth (m):										
		Date Sampled:		01-Feb-2021	01-Feb-2021	01-Feb-2021	01-Feb-2021	01-Feb-2021	01-Feb-2021	02-Feb-2021	02-Feb-2021	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
		Asbestos Lab:										
Determinand		Accred.	SOP	Units	LOD	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	No Asbestos Detected	No Asbestos Detected	Fibres/Clumps
ACM Type		U	2192		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Asbestos Identification		U	2192		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
ACM Detection Stage		U	2192		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Asbestos by Gravimetry		U	2192	%	0.001	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Total Asbestos		U	2192	%	0.001	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Moisture		N	2030	%	0.020	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Soil Colour		N	2040		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Other Material		N	2040		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Soil Texture		N	2040		N/A	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
pH		M	2010		4.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Cyanide (Total)		M	2300	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Arsenic		M	2450	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Cadmium		M	2450	mg/kg	0.10	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Chromium		M	2450	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Mercury Low Level		M	2450	mg/kg	0.05	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Copper		M	2450	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Nickel		M	2450	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Lead		M	2450	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Selenium		M	2450	mg/kg	0.20	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Zinc		M	2450	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Organic Matter		M	2625	%	0.40	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C5-C6		N	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C6-C8		N	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C8-C10		M	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C10-C12		M	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C12-C16		M	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C16-C21		M	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C21-C35		M	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aliphatic TPH >C35-C44		N	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Total Aliphatic Hydrocarbons		N	2680	mg/kg	5.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aromatic TPH >C5-C7		N	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	
Aromatic TPH >C7-C8		N	2680	mg/kg	1.0	Fibres/Clumps	Chrysotile	Stereo Microscopy	Chrysotile	Chrysotile	Amosite	

Results - Soil

Project: 21988 Methyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782		21-03782		21-03782		21-03782		21-03782		21-03782		21-03782	
Quotation No.:		Chemtest Sample ID.:		1138511		1138512		1138513		1138515		1138517		1138518		1138519	
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 1A		Stockpile 1B		Stockpile 1C		Stockpile 2A		Stockpile 2C		Stockpile 2D		Stockpile 3	
		Sample Type:		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Top Depth (m):		1.5				1		2		1.4		1.6		2.8	
		Bottom Depth (m):															
		Date Sampled:		01-Feb-2021		01-Feb-2021		01-Feb-2021		01-Feb-2021		01-Feb-2021		01-Feb-2021		02-Feb-2021	
		Asbestos Lab:		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM	
Determinand		Accred.	SOP	Units	LOD												
Aromatic TPH >C8-C10		M	2680	mg/kg	1.0												
Aromatic TPH >C10-C12		M	2680	mg/kg	1.0												
Aromatic TPH >C12-C16		M	2680	mg/kg	1.0												
Aromatic TPH >C16-C21		U	2680	mg/kg	1.0												
Aromatic TPH >C21-C35		M	2680	mg/kg	1.0												
Aromatic TPH >C35-C44		N	2680	mg/kg	1.0												
Total Aromatic Hydrocarbons		N	2680	mg/kg	5.0												
Total Petroleum Hydrocarbons		N	2680	mg/kg	10.0												
Naphthalene		N	2700	mg/kg	0.010												
Acenaphthylene		N	2700	mg/kg	0.010												
Acenaphthene		N	2700	mg/kg	0.010												
Fluorene		N	2700	mg/kg	0.010												
Phenanthrene		N	2700	mg/kg	0.010												
Anthracene		N	2700	mg/kg	0.010												
Fluoranthene		N	2700	mg/kg	0.010												
Pyrene		N	2700	mg/kg	0.010												
Benzo[a]anthracene		N	2700	mg/kg	0.010												
Chrysene		N	2700	mg/kg	0.010												
Benzo[b]fluoranthene		N	2700	mg/kg	0.010												
Benzo[k]fluoranthene		N	2700	mg/kg	0.010												
Benzo[a]pyrene		N	2700	mg/kg	0.010												
Indeno(1,2,3-c,d)Pyrene		N	2700	mg/kg	0.010												
Dibenz(a,h)Anthracene		N	2700	mg/kg	0.010												
Benzo[g,h,i]perylene		N	2700	mg/kg	0.010												
Total Of 16 PAH's		N	2700	mg/kg	0.20												
Benzene		M	2760	µg/kg	1.0												
Toluene		M	2760	µg/kg	1.0												
Ethylbenzene		M	2760	µg/kg	1.0												
m & p-Xylene		M	2760	µg/kg	1.0												
o-Xylene		M	2760	µg/kg	1.0												
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0												
Total Phenols		M	2920	mg/kg	0.30												

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd				Chemtest Job No.:			21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:		Chemtest Sample ID.:			1138521	1138522	1138523	1138524	1138526	1138527	1138528	1138529
Order No.: 21-3-FDO-LABS		Client Sample Ref.:			Stockpile 5B	Stockpile 6A	Stockpile 6A	Stockpile 6B	Stockpile 6C	Stockpile 6D	Stockpile 6D	Stockpile 7A
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			2.5	2	3.5	1.6	1.6	1.8	4	0.6
		Bottom Depth (m):										
		Date Sampled:			02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	DURHAM
Determinand	Accred.	SOP	Units	LOD	21-03782			21-03782	21-03782	21-03782	21-03782	21-03782
ACM Type	U	2192		N/A	-	-	No Asbestos Detected	Fibres/Clumps	-	Fibres/Clumps		Fibres/Clumps
Asbestos Identification	U	2192		N/A	-	-	No Asbestos Detected	Amosite	-	Chrysotile		Chrysotile
ACM Detection Stage	U	2192		N/A	-	-		Stereo Microscopy		Stereo Microscopy		Stereo Microscopy
Asbestos by Gravimetry	U	2192	%	0.001				<0.001		<0.001		<0.001
Total Asbestos	U	2192	%	0.001				<0.001		<0.001		<0.001
Moisture	N	2030	%	0.020		16			17		19	14
Soil Colour	N	2040		N/A		Brown			Black		Brown	Black
Other Material	N	2040		N/A		None			Stones		Stones	None
Soil Texture	N	2040		N/A		Clay			Clay		Clay	Clay
pH	M	2010		4.0		8.3			9.5		8.6	8.9
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		2.4			1.3		1.3	0.063
Cyanide (Total)	M	2300	mg/kg	0.50		< 0.50			< 0.50		< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50		19			57		11	11
Arsenic	M	2450	mg/kg	1.0		25			24		24	14
Cadmium	M	2450	mg/kg	0.10		0.22			0.22		0.16	0.25
Chromium	M	2450	mg/kg	1.0		12			15		15	15
Mercury Low Level	M	2450	mg/kg	0.05		0.29			0.31		0.91	0.27
Copper	M	2450	mg/kg	0.50		26			31		36	33
Nickel	M	2450	mg/kg	0.50		17			22		24	44
Lead	M	2450	mg/kg	0.50		160			140		380	78
Selenium	M	2450	mg/kg	0.20		< 0.20			< 0.20		0.34	0.28
Zinc	M	2450	mg/kg	0.50		160			160		160	110
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50			< 0.50		< 0.50	< 0.50
Organic Matter	M	2625	%	0.40		9.0			10		15	7.2
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0			6100		< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0			6100		< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		[C] < 1.0			< 1.0		< 1.0	< 1.0

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:		Chemtest Sample ID.:		1138521	1138522	1138523	1138524	1138526	1138527	1138528	1138529
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 5B	Stockpile 6A	Stockpile 6A	Stockpile 6B	Stockpile 6C	Stockpile 6D	Stockpile 6D	Stockpile 7A
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.5	2	3.5	1.6	1.6	1.8	4	0.6
		Bottom Depth (m):									
		Date Sampled:		02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	DURHAM
Determinand	Accred.	SOP	Units	LOD							
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[C] < 1.0			< 1.0		9.7	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[C] < 1.0			< 1.0		8.2	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[C] 11			< 1.0		55	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[C] 130			15		240	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[C] 140			15		310	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[C] 140			6100		310	< 10
Naphthalene	N	2700	mg/kg	0.010	9.5			2.0		7.7	2.2
Acenaphthylene	N	2700	mg/kg	0.010	1.1			0.11		0.52	0.32
Acenaphthene	N	2700	mg/kg	0.010	2.7			0.73		3.1	0.82
Fluorene	N	2700	mg/kg	0.010	3.0			0.66		3.1	0.80
Phenanthrene	N	2700	mg/kg	0.010	21			6.6		18	2.4
Anthracene	N	2700	mg/kg	0.010	4.6			1.1		4.0	0.50
Fluoranthene	N	2700	mg/kg	0.010	25			8.4		18	2.1
Pyrene	N	2700	mg/kg	0.010	24			7.5		16	1.8
Benzo[a]anthracene	N	2700	mg/kg	0.010	12			4.1		8.2	1.3
Chrysene	N	2700	mg/kg	0.010	13			5.0		7.5	1.4
Benzo[b]fluoranthene	N	2700	mg/kg	0.010	15			5.4		9.8	1.7
Benzo[k]fluoranthene	N	2700	mg/kg	0.010	5.4			2.1		3.6	0.51
Benzo[a]pyrene	N	2700	mg/kg	0.010	11			3.7		7.3	0.89
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	6.9			2.3		4.7	< 0.010
Dibenz(a,h)Anthracene	N	2700	mg/kg	0.010	2.2			0.89		1.5	< 0.010
Benzo[g,h,i]perylene	N	2700	mg/kg	0.010	6.2			2.3		4.0	< 0.010
Total Of 16 PAH's	N	2700	mg/kg	0.20	160			53		120	17
Benzene	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	[C] < 1.0			< 1.0		< 1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30			0.48		< 0.30	< 0.30

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:		Chemtest Sample ID.:		1138531	1138532	1138533	1138534	1138535	1138536	1138537	1138539		
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 7B	Stockpile 7B	Stockpile 7C	Stockpile 7C	Stockpile 8A	Stockpile 8A	Stockpile 8B (blank)	Stockpile 8C		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.8	2.9	1.7	3	0.9	1.4	1.8	0.2		
		Bottom Depth (m):											
		Date Sampled:		02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021	02-Feb-2021		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	Accred.	SOP	Units	LOD	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Fibres/Clumps	No Asbestos Detected	Fibres/Clumps
ACM Type	U	2192		N/A	Fibres/Clumps	Amosite Chrysotile	Chrysotile				Fibres/Clumps		Fibres/Clumps
Asbestos Identification	U	2192		N/A		Stereo Chrysotile	Chrysotile				Chrysotile		Chrysotile
ACM Detection Stage	U	2192		N/A		Stereo Microscopy	Stereo Microscopy				Stereo Microscopy		Stereo Microscopy
Asbestos by Gravimetry	U	2192	%	0.001		<0.001	<0.001						<0.001
Total Asbestos	U	2192	%	0.001		<0.001	<0.001						<0.001
Moisture	N	2030	%	0.020		18	18						
Soil Colour	N	2040		N/A		Brown	Brown						
Other Material	N	2040		N/A		None	Roots						
Soil Texture	N	2040		N/A		Clay	Clay						
pH	M	2010		4.0		8.5	9.4						
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		0.21	0.55						
Cyanide (Total)	M	2300	mg/kg	0.50		< 0.50	< 0.50						
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50		36	18						
Arsenic	M	2450	mg/kg	1.0		20	24						
Cadmium	M	2450	mg/kg	0.10		0.32	0.51						
Chromium	M	2450	mg/kg	1.0		17	22						
Mercury Low Level	M	2450	mg/kg	0.05		0.23	0.30						
Copper	M	2450	mg/kg	0.50		41	62						
Nickel	M	2450	mg/kg	0.50		31	31						
Lead	M	2450	mg/kg	0.50		97	160						
Selenium	M	2450	mg/kg	0.20		0.43	0.30						
Zinc	M	2450	mg/kg	0.50		140	220						
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50	< 0.50						
Organic Matter	M	2625	%	0.40		7.6	8.8						
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	[C] < 5.0						
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	[C] < 1.0						
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	[C] < 1.0						

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd				Chemtest Job No.:		21-03782		21-03782		21-03782		21-03782		21-03782		21-03782	
Quotation No.:		Chemtest Sample ID.:		1138531		1138532		1138533		1138534		1138535		1138537		1138539	
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 7B		Stockpile 7B		Stockpile 7C		Stockpile 7C		Stockpile 8A		Stockpile 8B (blank)		Stockpile 8C	
		Sample Type:		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Top Depth (m):		1.8		2.9		1.7		3		0.9		1.8		0.2	
		Bottom Depth (m):															
		Date Sampled:		02-Feb-2021		02-Feb-2021		02-Feb-2021		02-Feb-2021		02-Feb-2021		02-Feb-2021		02-Feb-2021	
		Asbestos Lab:		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM		DURHAM	
Determinand		Accred.	SOP	Units	LOD												
Aromatic TPH >C8-C10		M	2680	mg/kg	1.0												
Aromatic TPH >C10-C12		M	2680	mg/kg	1.0	< 1.0											
Aromatic TPH >C12-C16		M	2680	mg/kg	1.0	< 1.0											
Aromatic TPH >C16-C21		U	2680	mg/kg	1.0	< 1.0											
Aromatic TPH >C21-C35		M	2680	mg/kg	1.0	< 1.0											
Aromatic TPH >C35-C44		N	2680	mg/kg	1.0	< 1.0											
Total Aromatic Hydrocarbons		N	2680	mg/kg	5.0	< 5.0											
Total Petroleum Hydrocarbons		N	2680	mg/kg	10.0	< 10											
Naphthalene		N	2700	mg/kg	0.010	< 0.010											
Acenaphthylene		N	2700	mg/kg	0.010	< 0.010											
Acenaphthene		N	2700	mg/kg	0.010	< 0.010											
Fluorene		N	2700	mg/kg	0.010	< 0.010											
Phenanthrene		N	2700	mg/kg	0.010	< 0.010											
Anthracene		N	2700	mg/kg	0.010	< 0.010											
Fluoranthene		N	2700	mg/kg	0.010	2.1											
Pyrene		N	2700	mg/kg	0.010	2.1											
Benzo[a]anthracene		N	2700	mg/kg	0.010	1.3											
Chrysene		N	2700	mg/kg	0.010	1.3											
Benzo[b]fluoranthene		N	2700	mg/kg	0.010	2.0											
Benzo[k]fluoranthene		N	2700	mg/kg	0.010	0.48											
Benzo[a]pyrene		N	2700	mg/kg	0.010	0.79											
Indeno(1,2,3-c,d)Pyrene		N	2700	mg/kg	0.010	< 0.010											
Dibenz(a,h)Anthracene		N	2700	mg/kg	0.010	< 0.010											
Benzo[g,h,i]perylene		N	2700	mg/kg	0.010	< 0.010											
Total Of 16 PAH's		N	2700	mg/kg	0.20	10											
Benzene		M	2760	µg/kg	1.0	< 1.0											
Toluene		M	2760	µg/kg	1.0	< 1.0											
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0											
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0											
o-Xylene		M	2760	µg/kg	1.0	< 1.0											
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0											
Total Phenols		M	2920	mg/kg	0.30	< 0.30											

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd	Chemtest Job No.:	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:	Chemtest Sample ID.:	1138540	1138541	1138543	1138544	1138545	1138546	1138547	1138548		
Order No.: 21-3-FDO-LABS	Client Sample Ref.:	Stockpile 8D	Stockpile 9A	Stockpile 9B	Stockpile 9C	Stockpile 9E	Stockpile 10A	Stockpile 10B	Stockpile 10B		
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):	0.4	2	0.1	0.5	0.4	0.3	0.8	1.8		
	Bottom Depth (m):										
	Date Sampled:	02-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021		
	Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	Accred.	SOP	Units	LOD	Fibres/Clumps	Fibres/Clumps	Amosite	Stereo Microscopy	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Type	U	2192		N/A	Chrysotile	Stereo Microscopy			-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-	-	-	-
Asbestos by Gravimetry	U	2192	%	0.001							
Total Asbestos	U	2192	%	0.001							
Moisture	N	2030	%	0.020							
Soil Colour	N	2040		N/A							
Other Material	N	2040		N/A							
Soil Texture	N	2040		N/A							
pH	M	2010		4.0							
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010							
Cyanide (Total)	M	2300	mg/kg	0.50							
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50							
Arsenic	M	2450	mg/kg	1.0							
Cadmium	M	2450	mg/kg	0.10							
Chromium	M	2450	mg/kg	1.0							
Mercury Low Level	M	2450	mg/kg	0.05							
Copper	M	2450	mg/kg	0.50							
Nickel	M	2450	mg/kg	0.50							
Lead	M	2450	mg/kg	0.50							
Selenium	M	2450	mg/kg	0.20							
Zinc	M	2450	mg/kg	0.50							
Chromium (Hexavalent)	N	2490	mg/kg	0.50							
Organic Matter	M	2625	%	0.40							
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0							
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0							
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0							
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0							
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0							
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0							
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0							
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0							
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0							
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0							

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd	Chemtest Job No.:	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782	21-03782
Quotation No.:	Chemtest Sample ID.:	1138540	1138541	1138543	1138544	1138545	1138546	1138547	1138548	21-03782
Order No.: 21-3-FDO-LABS	Client Sample Ref.:	Stockpile 8D	Stockpile 9A	Stockpile 9B	Stockpile 9C	Stockpile 9E	Stockpile 10A	Stockpile 10B	Stockpile 10B	21-03782
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.4	2	0.1	0.5	0.4	0.3	0.8	1.8	1.8
	Bottom Depth (m):									
	Date Sampled:	02-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021	03-Feb-2021
	Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0			< 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	10			5.8		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0			< 1.0		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	50			15		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	300			430		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0			< 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	360			450		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	360			450		
Naphthalene	N	2700	mg/kg	0.010	70			4.8		
Acenaphthylene	N	2700	mg/kg	0.010	0.92			0.15		
Acenaphthene	N	2700	mg/kg	0.010	15			1.0		
Fluorene	N	2700	mg/kg	0.010	1.4			1.1		
Phenanthrene	N	2700	mg/kg	0.010	15			9.6		
Anthracene	N	2700	mg/kg	0.010	3.1			1.6		
Fluoranthene	N	2700	mg/kg	0.010	19			12		
Pyrene	N	2700	mg/kg	0.010	19			12		
Benzo[a]anthracene	N	2700	mg/kg	0.010	10			6.0		
Chrysene	N	2700	mg/kg	0.010	9.1			5.8		
Benzo[b]fluoranthene	N	2700	mg/kg	0.010	12			8.2		
Benzo[k]fluoranthene	N	2700	mg/kg	0.010	4.6			3.1		
Benzo[a]pyrene	N	2700	mg/kg	0.010	9.0			6.2		
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	5.7			< 0.010		
Dibenz(a,h)Anthracene	N	2700	mg/kg	0.010	1.9			< 0.010		
Benzo[g,h,i]perylene	N	2700	mg/kg	0.010	5.0			< 0.010		
Total Of 16 PAH's	N	2700	mg/kg	0.20	130			72		
Benzene	M	2760	µg/kg	1.0	< 1.0			< 1.0		
Toluene	M	2760	µg/kg	1.0	< 1.0			< 1.0		
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0			< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0		
o-Xylene	M	2760	µg/kg	1.0	< 1.0			< 1.0		
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0			< 1.0		
Total Phenols	M	2920	mg/kg	0.30	< 0.30			< 0.30		

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782
Quotation No.:		Chemtest Sample ID.:		1138557
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		MBH1
	Sample Type:	SOIL		SOIL
	Top Depth (m):	1.8		0
	Bottom Depth (m):			0.4
	Date Sampled:	01-Feb-2021		01-Feb-2021
	Asbestos Lab:			DURHAM
Determinand	Accred.	SOP	Units	LOD
ACM Type	U	2192		N/A
Asbestos Identification	U	2192		N/A
ACM Detection Stage	U	2192		N/A
Asbestos by Gravimetry	U	2192	%	0.001
Total Asbestos	U	2192	%	0.001
Moisture	N	2030	%	0.020
Soil Colour	N	2040		N/A
Other Material	N	2040		N/A
Soil Texture	N	2040		N/A
pH	M	2010		4.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010
Cyanide (Total)	M	2300	mg/kg	0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50
Arsenic	M	2450	mg/kg	1.0
Cadmium	M	2450	mg/kg	0.10
Chromium	M	2450	mg/kg	1.0
Mercury Low Level	M	2450	mg/kg	0.05
Copper	M	2450	mg/kg	0.50
Nickel	M	2450	mg/kg	0.50
Lead	M	2450	mg/kg	0.50
Selenium	M	2450	mg/kg	0.20
Zinc	M	2450	mg/kg	0.50
Chromium (Hexavalent)	N	2490	mg/kg	0.50
Organic Matter	M	2625	%	0.40
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0

Results - Soil

Project: 21988 Merthyl Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-03782	21-03782
Quotation No.:		Chemtest Sample ID.:		1138554	1138557
Order No.: 21-3-FDO-LABS		Client Sample Ref.:		Stockpile 9B	MBH1
		Sample Type:		SOIL	SOIL
		Top Depth (m):		1.8	0
		Bottom Depth (m):			0.4
		Date Sampled:		01-Feb-2021	01-Feb-2021
		Asbestos Lab:			DURHAM
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10
Naphthalene	N	2700	mg/kg	0.010	< 0.010
Acenaphthylene	N	2700	mg/kg	0.010	< 0.010
Acenaphthene	N	2700	mg/kg	0.010	< 0.010
Fluorene	N	2700	mg/kg	0.010	< 0.010
Phenanthrene	N	2700	mg/kg	0.010	< 0.010
Anthracene	N	2700	mg/kg	0.010	< 0.010
Fluoranthene	N	2700	mg/kg	0.010	< 0.010
Pyrene	N	2700	mg/kg	0.010	< 0.010
Benzo[a]anthracene	N	2700	mg/kg	0.010	< 0.010
Chrysene	N	2700	mg/kg	0.010	< 0.010
Benzo[b]fluoranthene	N	2700	mg/kg	0.010	< 0.010
Benzo[k]fluoranthene	N	2700	mg/kg	0.010	< 0.010
Benzo[a]pyrene	N	2700	mg/kg	0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	< 0.010
Dibenz[a,h]Anthracene	N	2700	mg/kg	0.010	< 0.010
Benzo[g,h,i]perylene	N	2700	mg/kg	0.010	< 0.010
Total Of 16 PAH's	N	2700	mg/kg	0.20	< 0.20
Benzene	M	2760	µg/kg	1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30

Results - Single Stage WAC

Project: 21988 Merthyl Tydfil Hospital

Chemtest Job No: 21-03782		Landfill Waste Acceptance Criteria Limits		Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1138526							
Sample Ref: Stockpile 6C							
Sample ID:							
Sample Location: 1.6							
Top Depth(m):		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill		Hazardous Waste Landfill	
Bottom Depth(m):							
Sampling Date: 02-Feb-2021							
Determinand							
SOP							
Total Organic Carbon		2625		M		Units	
Loss On Ignition		2610		M		%	
Total BTX		2760		M		mg/kg	
Total PCBs (7 Congeners)		2815		M		mg/kg	
TPH Total WAC (Mineral Oil)		2670		M		mg/kg	
Total (Of 17) PAH's		2700		N		mg/kg	
pH		2010		M		9.5	
Acid Neutralisation Capacity		2015		N		mol/kg	
Eluate Analysis				10:1 Eluate		10:1 Eluate	
				mg/l		mg/kg	
Arsenic		1450		U		< 0.0022	
Barium		1450		U		< 0.037	
Cadmium		1450		U		< 0.00010	
Chromium		1450		U		0.0042	
Copper		1450		U		< 0.0010	
Mercury		1450		U		< 0.00050	
Molybdenum		1450		U		0.0053	
Nickel		1450		U		0.0017	
Lead		1450		U		< 0.0010	
Antimony		1450		U		0.0044	
Selenium		1450		U		< 0.0010	
Zinc		1450		U		0.022	
Chloride		1220		U		< 1.0	
Fluoride		1220		U		0.11	
Sulphate		1220		U		11	
Total Dissolved Solids		1020		N		720	
Phenol Index		1920		U		< 0.030	
Dissolved Organic Carbon		1610		U		2.6	
						< 50	
						500	
						800	
						1000	

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 21988 Merthyl Tydfil Hospital

Chemtest Job No: 21-03782				Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 1138541							
Sample Ref: Stockpile 9A							
Sample ID: 2							
Sample Location: Top Depth(m): Bottom Depth(m): Sampling Date: 03-Feb-2021				Landfill Waste Acceptance Criteria Limits			
Determinand							
SOP							
Accred.							
Units				Landfill Waste Acceptance Criteria Limits			
Total Organic Carbon							
Loss On Ignition							
Total BTX							
Total PCBs (7 Congeners)				Landfill Waste Acceptance Criteria Limits			
TPH Total WAC (Mineral Oil)							
Total (Of 17) PAH's							
pH							
Acid Neutralisation Capacity				Landfill Waste Acceptance Criteria Limits			
2015							
10:1 Eluate mg/l							
10:1 Eluate mg/kg							
Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg				Landfill Waste Acceptance Criteria Limits			
Arsenic							
Barium							
Cadmium							
Chromium				Landfill Waste Acceptance Criteria Limits			
Copper							
Mercury							
Molybdenum							
Nickel				Landfill Waste Acceptance Criteria Limits			
Lead							
Antimony							
Selenium							
Zinc				Landfill Waste Acceptance Criteria Limits			
Chloride							
Fluoride							
Sulphate							
Total Dissolved Solids				Landfill Waste Acceptance Criteria Limits			
Phenol Index							
Dissolved Organic Carbon							
1610							

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 21988 Merthyl Tydfil Hospital

Chemtest Job No: 21-03782				Landfill Waste Acceptance Criteria							
Chemtest Sample ID: 1138547											
Sample Ref: Stockpile 10B											
Sample ID:											
Sample Location: 0.8											
Top Depth(m):											
Bottom Depth(m):											
Sampling Date: 03-Feb-2021											
Determinand	SOP	Accred.	Units	Limits							
Total Organic Carbon	2625	M	%								
Loss On Ignition	2610	M	%	To evaluate							
Total BTEX	2760	M	mg/kg								
Total PCBs (7 Congeners)	2815	M	mg/kg								
TPH Total WAC (Mineral Oil)	2670	M	mg/kg								
Total (Of 17) PAH's	2700	N	mg/kg								
pH	2010	M									
Acid Neutralisation Capacity	2015	N	mol/kg								
Eluate Analysis											
Arsenic	1450	U	0.011					Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Barium	1450	U	0.020								
Cadmium	1450	U	< 0.00010								
Chromium	1450	U	0.0039								
Copper	1450	U	0.0057								
Mercury	1450	U	< 0.00050								
Molybdenum	1450	U	0.0043								
Nickel	1450	U	< 0.0010								
Lead	1450	U	0.0017								
Antimony	1450	U	0.0030								
Selenium	1450	U	< 0.0010	To evaluate							
Zinc	1450	U	0.0075								
Chloride	1220	U	1.5								
Fluoride	1220	U	0.23								
Sulphate	1220	U	36								
Total Dissolved Solids	1020	N	110								
Phenol Index	1920	U	< 0.030								
Dissolved Organic Carbon	1610	U	3.7								

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	36

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1138522	Stockpile 6A			02-Feb-2021	C	Plastic Tub 500g
1138533	Stockpile 7C			02-Feb-2021	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44Aromatics: >C5–C7, >C7–C8, >C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C44	Dichloromethane extraction / GCxGC FID detection

Test Methods

SOP	Title	Parameters included	Method summary
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

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



Final Report

Report No.:	21-04293-1		
Initial Date of Issue:	18-Feb-2021		
Client	Idom Merebrook Ltd		
Client Address:	Cromford Mills Mill Lane Matlock Derbyshire DE4 3RQ		
Contact(s):	Charlie Oliveira Tim Crowe		
Project	21988 Methyr Tydfil Hospital		
Quotation No.:		Date Received:	11-Feb-2021
Order No.:		Date Instructed:	12-Feb-2021
No. of Samples:	5		
Turnaround (Wkdays):	5	Results Due:	18-Feb-2021
Date Approved:	18-Feb-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 21988 Methyr Tydfil Hospital

Client: Idom Merebrook Ltd		Chemtest Job No.:		21-04293	21-04293	21-04293	21-04293
Quotation No.:		Chemtest Sample ID.:		1140821	1140822	1140823	1140824
Order No.:		Client Sample Ref.:		MSP08	MWS05	MBH02	MBH03
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.20		0.00	0.00
		Bottom Depth (m):				0.20	0.10
		Date Sampled:		09-Feb-2021	10-Feb-2021	10-Feb-2021	09-Feb-2021
		Asbestos Lab:		DURHAM		DURHAM	
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	Fibres/Clumps
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	Chrysotile
ACM Detection Stage	U	2192		N/A	-	-	Stereo Microscopy
Asbestos by Gravimetry	U	2192	%	0.001			<0.001
Total Asbestos	U	2192	%	0.001			<0.001
Moisture	N	2030	%	0.020		8.2	31
Soil Colour	N	2040		N/A	Brown	Grey	Black
Other Material	N	2040		N/A	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand
pH	M	2010		4.0	8.6	8.9	7.9
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.030	0.033	0.010
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	2.7	2.2	39
Arsenic	M	2450	mg/kg	1.0	20	12	18
Cadmium	M	2450	mg/kg	0.10	0.27	0.15	< 0.10
Chromium	M	2450	mg/kg	1.0	14	19	10
Mercury Low Level	M	2450	mg/kg	0.05	0.15	0.07	0.06
Copper	M	2450	mg/kg	0.50	47	31	120
Nickel	M	2450	mg/kg	0.50	28	31	72
Lead	M	2450	mg/kg	0.50	66	23	37
Selenium	M	2450	mg/kg	0.20	< 0.20	0.23	0.88
Zinc	M	2450	mg/kg	0.50	100	76	43
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	15	1.1	91
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	9.1	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	18	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	27	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 21988 Methyr Tydfil Hospital

Client: Idom Merebrook Ltd	Chemtest Job No.:	21-04293	21-04293	21-04293	21-04293
Quotation No.:	Chemtest Sample ID.:	1140821	1140822	1140823	1140824
Order No.:	Client Sample Ref.:	MSP08	MWS05	MBH02	MBH03
	Sample Type:	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.20		0.00	0.00
	Bottom Depth (m):			0.20	0.10
	Date Sampled:	09-Feb-2021	10-Feb-2021	10-Feb-2021	10-Feb-2021
	Asbestos Lab:	DURHAM		DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	16
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	98
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	110
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	140
Naphthalene	N	2700	mg/kg	0.010	6.2
Acenaphthylene	N	2700	mg/kg	0.010	0.23
Acenaphthene	N	2700	mg/kg	0.010	1.6
Fluorene	N	2700	mg/kg	0.010	1.5
Phenanthrene	N	2700	mg/kg	0.010	15
Anthracene	N	2700	mg/kg	0.010	2.6
Fluoranthene	N	2700	mg/kg	0.010	17
Pyrene	N	2700	mg/kg	0.010	16
Benz[a]anthracene	N	2700	mg/kg	0.010	8.4
Chrysene	N	2700	mg/kg	0.010	8.9
Benz[b]fluoranthene	N	2700	mg/kg	0.010	10
Benz[k]fluoranthene	N	2700	mg/kg	0.010	3.8
Benz[a]pyrene	N	2700	mg/kg	0.010	7.5
Indeno(1,2,3-c,d)Pyrene	N	2700	mg/kg	0.010	4.7
Dibenz[a,h]Anthracene	N	2700	mg/kg	0.010	1.8
Benz[ghi]perylene	N	2700	mg/kg	0.010	4.5
Total Of 16 PAH's	N	2700	mg/kg	0.20	110
Benzene	M	2760	µg/kg	1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

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

Waste Classification Report



X5M9Y-7U63H-RDRJP

Job name

Merthyr All Samples

Description/Comments

All samples

Project

Site

Related Documents

#	Name	Description
None		

Waste Stream Template

Idom Core Contaminated Land WM3 waste suite

Classified by

Name:	Company:	HazWasteOnline™ Training Record:	
Keith Paramor	Idom Merebrook Ltd	Course	Date
Date:	Cromford Mills, Mill Lane	Hazardous Waste Classification	25 Mar 2015
08 Mar 2021 09:49 GMT	Matlock	Advanced Hazardous Waste Classification	26 Mar 2015
Telephone:	DE4 3RQ		
01773 829988			

Report

Created by: Keith Paramor
Created date: 08 Mar 2021 09:49 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	Stockpile 6A	2	Non Hazardous		3
2	Stockpile 6C	1.6	Hazardous	HP 3(i), HP 7, HP 11	6
3	Stockpile 6D	4	Non Hazardous		9
4	Stockpile 7A	0.6	Non Hazardous		12
5	Stockpile 7B	2.9	Non Hazardous		15
6	Stockpile 7C	1.7	Non Hazardous		18
7	Stockpile 9A	2	Non Hazardous		21
8	Stockpile 9B	1.8	Non Hazardous		24
9	Stockpile 10B	0.8	Hazardous	HP 8	27

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	30
Appendix B: Rationale for selection of metal species	31
Appendix C: Version	32

Classification of sample: Stockpile 6A

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

Sample details

Sample Name:	LoW Code:	
Stockpile 6A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
16%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				25 mg/kg	1.32	33.008 mg/kg	0.0033 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.22 mg/kg	1.285	0.283 mg/kg	0.000022 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	29.273 mg/kg	0.00293 %			
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	160 mg/kg		160 mg/kg	0.016 %			
	082-001-00-6										
6	mercury { mercury dichloride }				0.29 mg/kg	1.353	0.393 mg/kg	0.0000393 %			
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel dihydroxide }				17 mg/kg	1.579	26.851 mg/kg	0.00269 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.19 mg/kg	1.405	0.267 mg/kg	0.0000267 %			
	034-002-00-8										
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				160 mg/kg	4.398	703.668 mg/kg	0.0704 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.3 pH		8.3 pH	8.3 pH			
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %			
	006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol 604-001-00-2	203-632-7	108-95-2		0.29 mg/kg		0.29 mg/kg	0.000029 %		
13	TPH (C6 to C40) petroleum group TPH				140 mg/kg		140 mg/kg	0.014 %		
14	confirm TPH has NOT arisen from diesel or petrol				☒					
15	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
16	naphthalene 601-052-00-2	202-049-5	91-20-3		9.5 mg/kg		9.5 mg/kg	0.00095 %		
17	acenaphthylene 205-917-1		208-96-8		1.1 mg/kg		1.1 mg/kg	0.00011 %		
18	acenaphthene 201-469-6		83-32-9		2.7 mg/kg		2.7 mg/kg	0.00027 %		
19	fluorene 201-695-5		86-73-7		3 mg/kg		3 mg/kg	0.0003 %		
20	phenanthrene 201-581-5		85-01-8		21 mg/kg		21 mg/kg	0.0021 %		
21	anthracene 204-371-1		120-12-7		4.6 mg/kg		4.6 mg/kg	0.00046 %		
22	fluoranthene 205-912-4		206-44-0		25 mg/kg		25 mg/kg	0.0025 %		
23	pyrene 204-927-3		129-00-0		24 mg/kg		24 mg/kg	0.0024 %		
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		12 mg/kg		12 mg/kg	0.0012 %		
25	chrysene 601-048-00-0	205-923-4	218-01-9		13 mg/kg		13 mg/kg	0.0013 %		
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		15 mg/kg		15 mg/kg	0.0015 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		5.4 mg/kg		5.4 mg/kg	0.00054 %		
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		11 mg/kg		11 mg/kg	0.0011 %		
29	indeno[123-cd]pyrene 205-893-2		193-39-5		6.9 mg/kg		6.9 mg/kg	0.00069 %		
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		2.2 mg/kg		2.2 mg/kg	0.00022 %		
31	benzo[ghi]perylene 205-883-8		191-24-2		6.2 mg/kg		6.2 mg/kg	0.00062 %		
32	benzene 601-020-00-8	200-753-7	71-43-2		0.99 mg/kg		0.99 mg/kg	0.000099 %		
33	toluene 601-021-00-3	203-625-9	108-88-3		0.99 mg/kg		0.99 mg/kg	0.000099 %		
34	ethylbenzene 601-023-00-4	202-849-4	100-41-4		0.99 mg/kg		0.99 mg/kg	0.000099 %		
35	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]		0.99 mg/kg		0.99 mg/kg	0.000099 %		
Total:								0.128 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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 WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

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

Because of determinands:

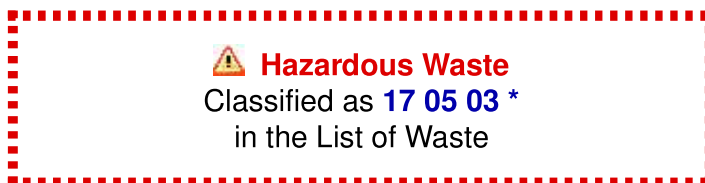
benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.014%)
xylene: (conc.: 0.00009%)

Classification of sample: Stockpile 6C



Sample details

Sample Name:	LoW Code:	
Stockpile 6C	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.6 m		
Moisture content:		
17%		
(no correction)		

Hazard properties

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 hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.61%)
xylene: (conc.: 0.00009%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.61%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.61%)

Determinands

Moisture content: **17% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	24 mg/kg	1.32	31.688 mg/kg	0.00317 %			
2	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.22 mg/kg	1.285	0.283 mg/kg	0.000022 %			
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	31 mg/kg	1.126	34.903 mg/kg	0.00349 %			
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			140 mg/kg		140 mg/kg	0.014 %			
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	0.31 mg/kg	1.353	0.42 mg/kg	0.000042 %			
7	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	22 mg/kg	1.579	34.749 mg/kg	0.00347 %			
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			0.19 mg/kg	1.405	0.267 mg/kg	0.0000267 %			
9	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]	160 mg/kg	4.398	703.668 mg/kg	0.0704 %			
10	pH		PH		9.5 pH		9.5 pH	9.5 pH			
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %			
12	phenol	604-001-00-2	203-632-7	108-95-2	0.48 mg/kg		0.48 mg/kg	0.000048 %			
13	TPH (C6 to C40) petroleum group		TPH		6100 mg/kg		6100 mg/kg	0.61 %			
14	confirm TPH has NOT arisen from diesel or petrol				☒						
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
16	naphthalene	601-052-00-2	202-049-5	91-20-3	2 mg/kg		2 mg/kg	0.0002 %			
17	acenaphthylene	205-917-1	208-96-8		0.11 mg/kg		0.11 mg/kg	0.000011 %			
18	acenaphthene	201-469-6	83-32-9		0.73 mg/kg		0.73 mg/kg	0.000073 %			
19	fluorene	201-695-5	86-73-7		0.66 mg/kg		0.66 mg/kg	0.000066 %			
20	phenanthrene	201-581-5	85-01-8		6.6 mg/kg		6.6 mg/kg	0.00066 %			
21	anthracene	204-371-1	120-12-7		1.1 mg/kg		1.1 mg/kg	0.00011 %			
22	fluoranthene	205-912-4	206-44-0		8.4 mg/kg		8.4 mg/kg	0.00084 %			
23	pyrene	204-927-3	129-00-0		7.5 mg/kg		7.5 mg/kg	0.00075 %			
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	4.1 mg/kg		4.1 mg/kg	0.00041 %			
25	chrysene	601-048-00-0	205-923-4	218-01-9	5 mg/kg		5 mg/kg	0.0005 %			

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
26	benzo[b]fluoranthene				5.4 mg/kg		5.4 mg/kg	0.00054 %		
	601-034-00-4	205-911-9	205-99-2							
27	benzo[k]fluoranthene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
	601-036-00-5	205-916-6	207-08-9							
28	benzo[a]pyrene; benzo[def]chrysene				3.7 mg/kg		3.7 mg/kg	0.00037 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				2.3 mg/kg		2.3 mg/kg	0.00023 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				0.89 mg/kg		0.89 mg/kg	0.000089 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				2.3 mg/kg		2.3 mg/kg	0.00023 %		
		205-883-8	191-24-2							
32	benzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-020-00-8	200-753-7	71-43-2							
33	toluene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-021-00-3	203-625-9	108-88-3							
34	ethylbenzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-023-00-4	202-849-4	100-41-4							
35	xylene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	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]							
Total:								0.713 %		

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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification

Classification of sample: Stockpile 6D

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

Sample details

Sample Name:	LoW Code:	
Stockpile 6D	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4 m		
Moisture content:		
19%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				24 mg/kg	1.32	31.688 mg/kg	0.00317 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.16 mg/kg	1.285	0.206 mg/kg	0.000016 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				36 mg/kg	1.126	40.532 mg/kg	0.00405 %			
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	380 mg/kg		380 mg/kg	0.038 %			
	082-001-00-6										
6	mercury { mercury dichloride }				0.91 mg/kg	1.353	1.232 mg/kg	0.000123 %			
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel dihydroxide }				24 mg/kg	1.579	37.908 mg/kg	0.00379 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.34 mg/kg	1.405	0.478 mg/kg	0.0000478 %			
	034-002-00-8										
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				160 mg/kg	4.398	703.668 mg/kg	0.0704 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.6 pH		8.6 pH	8.6 pH			
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %			
	006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol 604-001-00-2	203-632-7	108-95-2		0.29 mg/kg		0.29 mg/kg	0.000029 %		
13	TPH (C6 to C40) petroleum group 601-052-00-2		TPH		310 mg/kg		310 mg/kg	0.031 %		
14	confirm TPH has NOT arisen from diesel or petrol 601-052-00-2				☒					
15	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
16	naphthalene 601-052-00-2	202-049-5	91-20-3		7.7 mg/kg		7.7 mg/kg	0.00077 %		
17	acenaphthylene 601-052-00-2	205-917-1	208-96-8		0.52 mg/kg		0.52 mg/kg	0.000052 %		
18	acenaphthene 601-052-00-2	201-469-6	83-32-9		3.1 mg/kg		3.1 mg/kg	0.00031 %		
19	fluorene 601-052-00-2	201-695-5	86-73-7		3.1 mg/kg		3.1 mg/kg	0.00031 %		
20	phenanthrene 601-052-00-2	201-581-5	85-01-8		18 mg/kg		18 mg/kg	0.0018 %		
21	anthracene 601-052-00-2	204-371-1	120-12-7		4 mg/kg		4 mg/kg	0.0004 %		
22	fluoranthene 601-052-00-2	205-912-4	206-44-0		18 mg/kg		18 mg/kg	0.0018 %		
23	pyrene 601-052-00-2	204-927-3	129-00-0		16 mg/kg		16 mg/kg	0.0016 %		
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		8.2 mg/kg		8.2 mg/kg	0.00082 %		
25	chrysene 601-048-00-0	205-923-4	218-01-9		7.5 mg/kg		7.5 mg/kg	0.00075 %		
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		9.8 mg/kg		9.8 mg/kg	0.00098 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		3.6 mg/kg		3.6 mg/kg	0.00036 %		
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		7.3 mg/kg		7.3 mg/kg	0.00073 %		
29	indeno[123-cd]pyrene 601-032-00-3	205-893-2	193-39-5		4.7 mg/kg		4.7 mg/kg	0.00047 %		
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		1.5 mg/kg		1.5 mg/kg	0.00015 %		
31	benzo[ghi]perylene 601-032-00-3	205-883-8	191-24-2		4 mg/kg		4 mg/kg	0.0004 %		
32	benzene 601-020-00-8	200-753-7	71-43-2		0.99 mg/kg		0.99 mg/kg	0.000099 %		
33	toluene 601-021-00-3	203-625-9	108-88-3		0.99 mg/kg		0.99 mg/kg	0.000099 %		
34	ethylbenzene 601-023-00-4	202-849-4	100-41-4		0.99 mg/kg		0.99 mg/kg	0.000099 %		
35	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]		0.99 mg/kg		0.99 mg/kg	0.000099 %		
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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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 WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

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

Because of determinands:

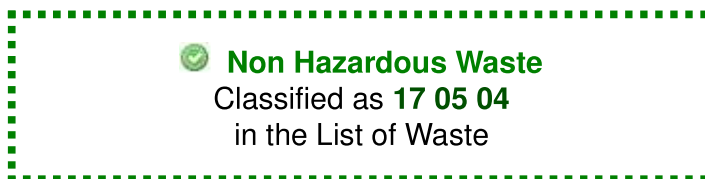
benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.031%)
xylene: (conc.: 0.00009%)

Classification of sample: Stockpile 7A



Sample details

Sample Name:	LoW Code:	
Stockpile 7A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m		
Moisture content:		
14%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **14% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.25 mg/kg	1.285	0.321 mg/kg	0.000025 %			
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				33 mg/kg	1.126	37.154 mg/kg	0.00372 %			
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	78 mg/kg		78 mg/kg	0.0078 %			
	082-001-00-6										
6	mercury { mercury dichloride }				0.27 mg/kg	1.353	0.365 mg/kg	0.0000365 %			
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel dihydroxide }				44 mg/kg	1.579	69.498 mg/kg	0.00695 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.28 mg/kg	1.405	0.393 mg/kg	0.0000393 %			
	034-002-00-8										
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				110 mg/kg	4.398	483.772 mg/kg	0.0484 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.9 pH		8.9 pH	8.9 pH			
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %			
	006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
12	phenol	604-001-00-2	203-632-7	108-95-2	0.29 mg/kg		0.29 mg/kg	0.000029 %			
13	TPH (C6 to C40) petroleum group			TPH	9 mg/kg		9 mg/kg	0.0009 %			
14	confirm TPH has NOT arisen from diesel or petrol				☒						
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
16	naphthalene	601-052-00-2	202-049-5	91-20-3	2.2 mg/kg		2.2 mg/kg	0.00022 %			
17	acenaphthylene		205-917-1	208-96-8	0.32 mg/kg		0.32 mg/kg	0.000032 %			
18	acenaphthene		201-469-6	83-32-9	0.82 mg/kg		0.82 mg/kg	0.000082 %			
19	fluorene		201-695-5	86-73-7	0.8 mg/kg		0.8 mg/kg	0.00008 %			
20	phenanthrene		201-581-5	85-01-8	2.4 mg/kg		2.4 mg/kg	0.00024 %			
21	anthracene		204-371-1	120-12-7	0.5 mg/kg		0.5 mg/kg	0.00005 %			
22	fluoranthene		205-912-4	206-44-0	2.1 mg/kg		2.1 mg/kg	0.00021 %			
23	pyrene		204-927-3	129-00-0	1.8 mg/kg		1.8 mg/kg	0.00018 %			
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	1.3 mg/kg		1.3 mg/kg	0.00013 %			
25	chrysene	601-048-00-0	205-923-4	218-01-9	1.4 mg/kg		1.4 mg/kg	0.00014 %			
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1.7 mg/kg		1.7 mg/kg	0.00017 %			
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.51 mg/kg		0.51 mg/kg	0.000051 %			
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.89 mg/kg		0.89 mg/kg	0.000089 %			
29	indeno[123-cd]pyrene		205-893-2	193-39-5	0.009 mg/kg		0.009 mg/kg	0.0000009 %			
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.009 mg/kg		0.009 mg/kg	0.0000009 %			
31	benzo[ghi]perylene		205-883-8	191-24-2	0.009 mg/kg		0.009 mg/kg	0.0000009 %			
32	benzene	601-020-00-8	200-753-7	71-43-2	0.99 mg/kg		0.99 mg/kg	0.000099 %			
33	toluene	601-021-00-3	203-625-9	108-88-3	0.99 mg/kg		0.99 mg/kg	0.000099 %			
34	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.99 mg/kg		0.99 mg/kg	0.000099 %			
35	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]	0.99 mg/kg		0.99 mg/kg	0.000099 %			
Total:									0.0742 %		

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
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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 WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 0.00009%)

toluene: (conc.: 0.00009%)

ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0009%)

xylene: (conc.: 0.00009%)

Classification of sample: Stockpile 7B

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

Sample details

Sample Name:	LoW Code:	
Stockpile 7B	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.9 m		
Moisture content:		
18%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				20 mg/kg	1.32	26.407 mg/kg		0.00264 %		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.32 mg/kg	1.285	0.411 mg/kg		0.000032 %		
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg		0.00248 %		
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				41 mg/kg	1.126	46.161 mg/kg		0.00462 %		
	029-002-00-X	215-270-7	1317-39-1								
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	97 mg/kg		97 mg/kg		0.0097 %		
	082-001-00-6										
6	mercury { mercury dichloride }				0.23 mg/kg	1.353	0.311 mg/kg		0.0000311 %		
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel dihydroxide }				31 mg/kg	1.579	48.964 mg/kg		0.0049 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.43 mg/kg	1.405	0.604 mg/kg		0.0000604 %		
	034-002-00-8										
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				140 mg/kg	4.398	615.71 mg/kg		0.0616 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.5 pH		8.5 pH		8.5 pH		
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.49 mg/kg	1.884	0.923 mg/kg		0.0000923 %		
	006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol 604-001-00-2	203-632-7	108-95-2		0.29 mg/kg		0.29 mg/kg	0.000029 %		
13	TPH (C6 to C40) petroleum group 601-052-00-2		TPH		9 mg/kg		9 mg/kg	0.0009 %		
14	confirm TPH has NOT arisen from diesel or petrol				☒					
15	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0	215-607-8	1333-82-0		<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
16	naphthalene 601-052-00-2	202-049-5	91-20-3		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
17	acenaphthylene 205-917-1		208-96-8		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
18	acenaphthene 201-469-6		83-32-9		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
19	fluorene 201-695-5		86-73-7		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
20	phenanthrene 201-581-5		85-01-8		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
21	anthracene 204-371-1		120-12-7		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
22	fluoranthene 205-912-4		206-44-0		2.1 mg/kg		2.1 mg/kg	0.00021 %		
23	pyrene 204-927-3		129-00-0		2.1 mg/kg		2.1 mg/kg	0.00021 %		
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.3 mg/kg		1.3 mg/kg	0.00013 %		
25	chrysene 601-048-00-0	205-923-4	218-01-9		1.3 mg/kg		1.3 mg/kg	0.00013 %		
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		2 mg/kg		2 mg/kg	0.0002 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.48 mg/kg		0.48 mg/kg	0.000048 %		
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.79 mg/kg		0.79 mg/kg	0.000079 %		
29	indeno[123-cd]pyrene 205-893-2		193-39-5		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
31	benzo[ghi]perylene 205-883-8		191-24-2		0.009 mg/kg		0.009 mg/kg	0.0000009 %		
32	benzene 601-020-00-8	200-753-7	71-43-2		0.99 mg/kg		0.99 mg/kg	0.000099 %		
33	toluene 601-021-00-3	203-625-9	108-88-3		0.99 mg/kg		0.99 mg/kg	0.000099 %		
34	ethylbenzene 601-023-00-4	202-849-4	100-41-4		0.99 mg/kg		0.99 mg/kg	0.000099 %		
35	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]		0.99 mg/kg		0.99 mg/kg	0.000099 %		
Total:								0.0886 %		