Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3	23/12007/4	23/12007/5	23/12007/6	23/12007/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS103	WS102	WS101	WS101	TP102	TP101	TP101			
Depth to Top	0.00	0.20	0.40	1.00	0.20	0.00	0.30			
Depth To Bottom	0.40	0.60	1.00	1.50	0.50	0.30	0.80			
Date Sampled	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	01-Dec-23	01-Dec-23	01-Dec-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4AE	6ABDE	6AB	6AB	4AB	6ABE	4AB			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	Amosite & Chrysotile	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	Loose Fibres	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	-	<0.001	-	-	-	-	-	% w/w	0.001	A-T-054

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3	23/12007/4	23/12007/5	23/12007/6	23/12007/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS103	WS102	WS101	WS101	TP102	TP101	TP101			
Depth to Top	0.00	0.20	0.40	1.00	0.20	0.00	0.30			
Depth To Bottom	0.40	0.60	1.00	1.50	0.50	0.30	0.80			
Date Sampled	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	01-Dec-23	01-Dec-23	01-Dec-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4AE	6ABDE	6AB	6AB	4AB	6ABE	4AB			
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.30	0.02	0.02	0.16	0.22	0.53	0.08	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.03	<0.01	<0.01	<0.01	0.03	0.06	0.02	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.46	0.06	0.05	0.18	0.49	1.11	0.17	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.53	0.15	0.23	0.49	1.48	3.39	0.81	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.35	0.10	0.21	0.25	1.19	3.26	0.78	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.73	0.15	0.31	0.42	1.60	4.15	1.13	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.92	0.06	0.16	0.12	0.70	1.79	0.47	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.55	<0.07	0.11	0.17	0.56	1.44	0.36	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	1.63	0.15	0.27	0.59	1.49	3.60	0.92	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.16	<0.04	<0.04	<0.04	0.13	0.33	0.09	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	3.31	0.39	0.47	1.33	3.44	7.59	1.52	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.17	0.01	0.01	0.10	0.24	0.41	0.05	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	1.00	0.07	0.17	0.13	0.79	2.00	0.52	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.07	<0.03	0.04	<0.03	0.17	0.22	0.06	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	2.01	0.25	0.23	0.91	2.32	4.92	0.74	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	3.10	0.33	0.45	1.31	3.16	6.99	1.49	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	18.3	1.74	2.73	6.16	18	41.8	9.21	mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3	23/12007/4	23/12007/5	23/12007/6	23/12007/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS103	WS102	WS101	WS101	TP102	TP101	TP101			
Depth to Top	0.00	0.20	0.40	1.00	0.20	0.00	0.30			
Depth To Bottom	0.40	0.60	1.00	1.50	0.50	0.30	0.80			
Date Sampled	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	01-Dec-23	01-Dec-23	01-Dec-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4AE	6ABDE	6AB	6AB	4AB	6ABE	4AB			
Speciated PCB-WHO12										
PCB BZ 81$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 105$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 114$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 118$_A^{M\#}$	<0.007	-	-	-	-	-	-	mg/kg	0.007	A-T-004s
PCB BZ 123$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 126$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 156$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 157$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 167$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 169$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 189$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 77$_A^{M\#}$	<0.005^U	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12$_A^{M\#}$	<0.007	-	-	-	-	-	-	mg/kg	0.005	A-T-004s
TPH Total with ID + GC Trace										
TPH total (>C6-C40)$_A^{M\#}$	-	95	-	101	757	-	-	mg/kg	10	A-T-007s
TPH FID Chromatogram$_A$	-	Appended	-	Appended	Appended	-	-			A-T-007s
TPH ID Interpretation$_A$	-	C10-C44 with PAHs and other unknown hydrocarbons	-	C10-C44 with PAHs and other unknown hydrocarbons	C10-C44 with PAHs and other unknown hydrocarbons	-	-			A-T-007s

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3	23/12007/4	23/12007/5	23/12007/6	23/12007/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS103	WS102	WS101	WS101	TP102	TP101	TP101			
Depth to Top	0.00	0.20	0.40	1.00	0.20	0.00	0.30			
Depth To Bottom	0.40	0.60	1.00	1.50	0.50	0.30	0.80			
Date Sampled	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	01-Dec-23	01-Dec-23	01-Dec-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4AE	6ABDE	6AB	6AB	4AB	6ABE	4AB			
TPH UKCWG with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<10	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<10	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<10	<1	<1	-	<1	2	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<10	<1	1	-	2	2	<1	mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	85	8	17	-	138	22	11	mg/kg	1	A-T-055s
Ali >C35-C44$_A$	20	2	7	-	37	14	5	mg/kg	1	A-T-055s
Total Aliphatics$_A$	105	10	26	-	177	39	16	mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<10	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<10	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<10	2	2	-	6	12	5	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	23	6	7	-	33	53	24	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	60	17	30	-	136	180	78	mg/kg	1	A-T-055s
Aro >C35-C44$_A$	12	1	8	-	49	15	5	mg/kg	1	A-T-055s
Total Aromatics$_A$	94	26	46	-	224	261	112	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	199	36	72	-	402	300	128	mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP106	TP104	TP105	TP103	TP108					
Depth to Top	0.30	2.00	1.00	0.30	0.30					
Depth To Bottom	0.60	2.50	1.50	0.75	0.75					
Date Sampled	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AB	6AE	4AE	4ABE	4ABE					
% Moisture at <40C$_A$	12.1	16.8	14.6	-	20.1			% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	0.2	26.5	16.7	8.8			% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.96	8.26	7.89	-	7.66			pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	0.01	0.03	0.01	-	0.03			g/l	0.01	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	810	340	480	-	720			mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1	-	<1			mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	-	<0.2			mg/kg	0.2	A-T-050s
Sulphide$_A$	75	97	66	-	73			mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	150	17	-	70			mg/kg	5	A-T-029s
Organic Matter$_D$$^{M\#}$	3.1	6.8	4.6	-	6.4			% w/w	0.1	A-T-032s
Arsenic$_D$$^{M\#}$	7	4	12	-	8			mg/kg	1	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	1.1	<1.0	-	<1.0			mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	0.7	1.1	1.2	-	1.0			mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	31	45	49	-	36			mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	17	33	19	-	23			mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	-	<1			mg/kg	1	A-T-040s
Chromium (trivalent)	17	33	19	-	23			mg/kg	1	Calc
Lead$_D$$^{M\#}$	107	56	108	-	92			mg/kg	1	A-T-024s
Mercury$_D$	0.24	0.22	0.43	-	0.36			mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	16	30	18	-	19			mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	-	<1			mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	69	52	86	-	115			mg/kg	5	A-T-024s

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

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Lab Sample ID	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP106	TP104	TP105	TP103	TP108					
Depth to Top	0.30	2.00	1.00	0.30	0.30					
Depth To Bottom	0.60	2.50	1.50	0.75	0.75					
Date Sampled	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AB	6AE	4AE	4ABE	4ABE					
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	Chrysotile	NAD	NAD	-	NAD					A-T-045
Asbestos Matrix (visual)$_{D}$	Cement	-	-	-	-					A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	No	N/A	N/A	-	N/A					A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_{D}$	0.032	-	-	-	-			% w/w	0.001	A-T-054

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP106	TP104	TP105	TP103	TP108					
Depth to Top	0.30	2.00	1.00	0.30	0.30					
Depth To Bottom	0.60	2.50	1.50	0.75	0.75					
Date Sampled	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AB	6AE	4AE	4ABE	4ABE					
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.02	0.89	0.12	-	0.08			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	0.06	0.05	-	0.02			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.05	0.53	0.23	-	0.17			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.22	1.18	0.79	-	0.63			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.20	1.01	0.74	-	0.51			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.30	1.30	1.14	-	0.74			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.14	0.58	0.40	-	0.31			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.09	0.42	0.34	-	0.27			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	0.25	1.27	0.91	-	0.72			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.04	0.12	0.08	-	0.06			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	0.42	2.53	1.76	-	1.37			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.01	0.49	0.07	-	0.07			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.15	0.61	0.47	-	0.33			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	0.38	0.03	-	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.23	1.97	0.86	-	0.90			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	0.40	2.63	1.58	-	1.34			mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	2.48	16	9.57	-	7.52			mg/kg	0.01	A-T-019s

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Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP106	TP104	TP105	TP103	TP108					
Depth to Top	0.30	2.00	1.00	0.30	0.30					
Depth To Bottom	0.60	2.50	1.50	0.75	0.75					
Date Sampled	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AB	6AE	4AE	4ABE	4ABE					
Speciated PCB-WHO12										
PCB BZ 81$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 105$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 114$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 118$_A^{M\#}$	-	-	-	<0.007	-			mg/kg	0.007	A-T-004s
PCB BZ 123$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 126$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 156$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 157$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 167$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 169$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 189$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
PCB BZ 77$_A^{M\#}$	-	-	-	<0.005^U	-			mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12$_A^{M\#}$	-	-	-	<0.007	-			mg/kg	0.005	A-T-004s

Envirolab Job Number: 23/12007

Client Project Name: Cheetham Hill, Manchester

Client Project Ref: 33716LG

Lab Sample ID	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP106	TP104	TP105	TP103	TP108					
Depth to Top	0.30	2.00	1.00	0.30	0.30					
Depth To Bottom	0.60	2.50	1.50	0.75	0.75					
Date Sampled	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	4AB	6AE	4AE	4ABE	4ABE					
TPH UKCWG with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	-	<1			mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	-	<1			mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	-	<1			mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	1	<1	-	<1			mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	17	5	18	-	6			mg/kg	1	A-T-055s
Ali >C35-C44$_A$	5	4	6	-	2			mg/kg	1	A-T-055s
Total Aliphatics$_A$	24	10	25	-	8			mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	-	<1			mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	4	<1	-	<1			mg/kg	1	A-T-055s
Aro >C12-C16$_A$	3	11	3	-	2			mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	7	23	15	-	8			mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	38	60	69	-	30			mg/kg	1	A-T-055s
Aro >C35-C44$_A$	3	4	5	-	2			mg/kg	1	A-T-055s
Total Aromatics$_A$	51	101	93	-	42			mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	75	110	118	-	50			mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01			mg/kg	0.01	A-T-022s

Report Notes

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

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

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

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

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

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^{o}C / 11550µS/cm @ 20^{o}C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Sutcliffe, 18-20 Harrington Street, Liverpool, L2 9QA

Project: Cheetham Hill, Manchester

Clients Project No: 33716LG

Project No: 23/12007

Date Received: 05/12/2023 (am)

Cool Box Temperatures (°C): 7.1 & 7.2

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3
Client Sample No			
Client Sample ID/Depth	WS103 0.00-0.40m	WS102 0.20-0.60m	WS101 0.40-1.00m
Date Sampled	30/11/23	30/11/23	30/11/23
Deviation Code			
F	✓	✓	✓

Key

F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3
Client Sample No			
Client Sample ID/Depth	WS103 0.00-0.40m	WS102 0.20-0.60m	WS101 0.40-1.00m
Date Sampled	30/11/23	30/11/23	30/11/23
Sulphide	✓	✓	✓

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

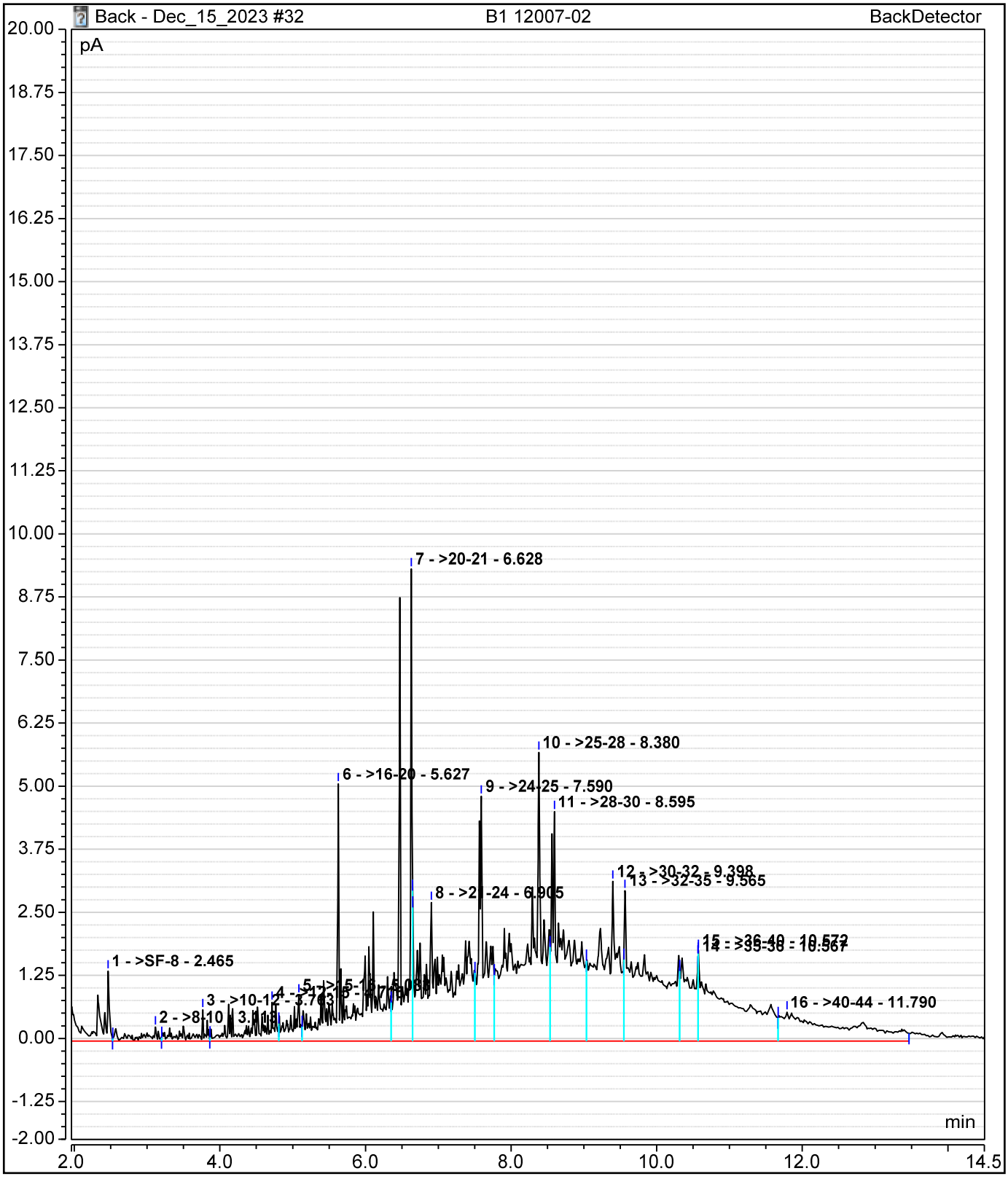
Envirolab Analysis Dates

Lab Sample ID	23/12007/1	23/12007/2	23/12007/3	23/12007/4	23/12007/5	23/12007/6	23/12007/7	23/12007/8	23/12007/9	23/12007/10	23/12007/11	23/12007/12
Client Sample No												
Client Sample ID/Depth	WS103 0.00-0.40m	WS102 0.20-0.60m	WS101 0.40-1.00m	WS101 1.00-1.50m	TP102 0.20-0.50m	TP101 0.00-0.30m	TP101 0.30-0.80m	TP106 0.30-0.60m	TP104 2.00-2.50m	TP105 1.00-1.50m	TP103 0.30-0.75m	TP108 0.30-0.75m
Date Sampled	30/11/23	30/11/23	30/11/23	30/11/23	01/12/23	01/12/23	01/12/23	01/12/23	01/12/23	01/12/23	01/12/23	01/12/23
A-T-004s	11/12/2023										11/12/2023	
A-T-007s		18/12/2023		18/12/2023	18/12/2023							
A-T-019s	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023		11/12/2023
A-T-022s	11/12/2023	11/12/2023	11/12/2023		11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023		11/12/2023
A-T-024s	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023		14/12/2023
A-T-026s	12/12/2023	12/12/2023	12/12/2023		12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023		12/12/2023
A-T-027s	12/12/2023	12/12/2023	12/12/2023		12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023		12/12/2023
A-T-028s	12/12/2023	12/12/2023	12/12/2023		12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023		12/12/2023
A-T-029s	18/12/2023	18/12/2023	19/12/2023		18/12/2023	19/12/2023	18/12/2023	18/12/2023	18/12/2023	18/12/2023		19/12/2023
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A-T-032s	14/12/2023	14/12/2023	14/12/2023		14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023		14/12/2023
A-T-040s	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023		12/12/2023
A-T-042sTCN	11/12/2023	11/12/2023	11/12/2023		11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023		11/12/2023
A-T-043-s	12/12/2023	12/12/2023	12/12/2023		12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023		12/12/2023
A-T-044	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023	12/12/2023
A-T-045	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023		06/12/2023
A-T-050s	15/12/2023	15/12/2023	15/12/2023		15/12/2023	15/12/2023	15/12/2023	15/12/2023	15/12/2023	15/12/2023		15/12/2023
A-T-054		12/12/2023						12/12/2023				
A-T-055s	11/12/2023	11/12/2023	11/12/2023		11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023		11/12/2023
Assessment		21/12/2023		21/12/2023	21/12/2023							
Calc	14/12/2023	14/12/2023	14/12/2023		14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023	14/12/2023		14/12/2023
Calc-As Recd	11/12/2023	11/12/2023	11/12/2023		11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023		11/12/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

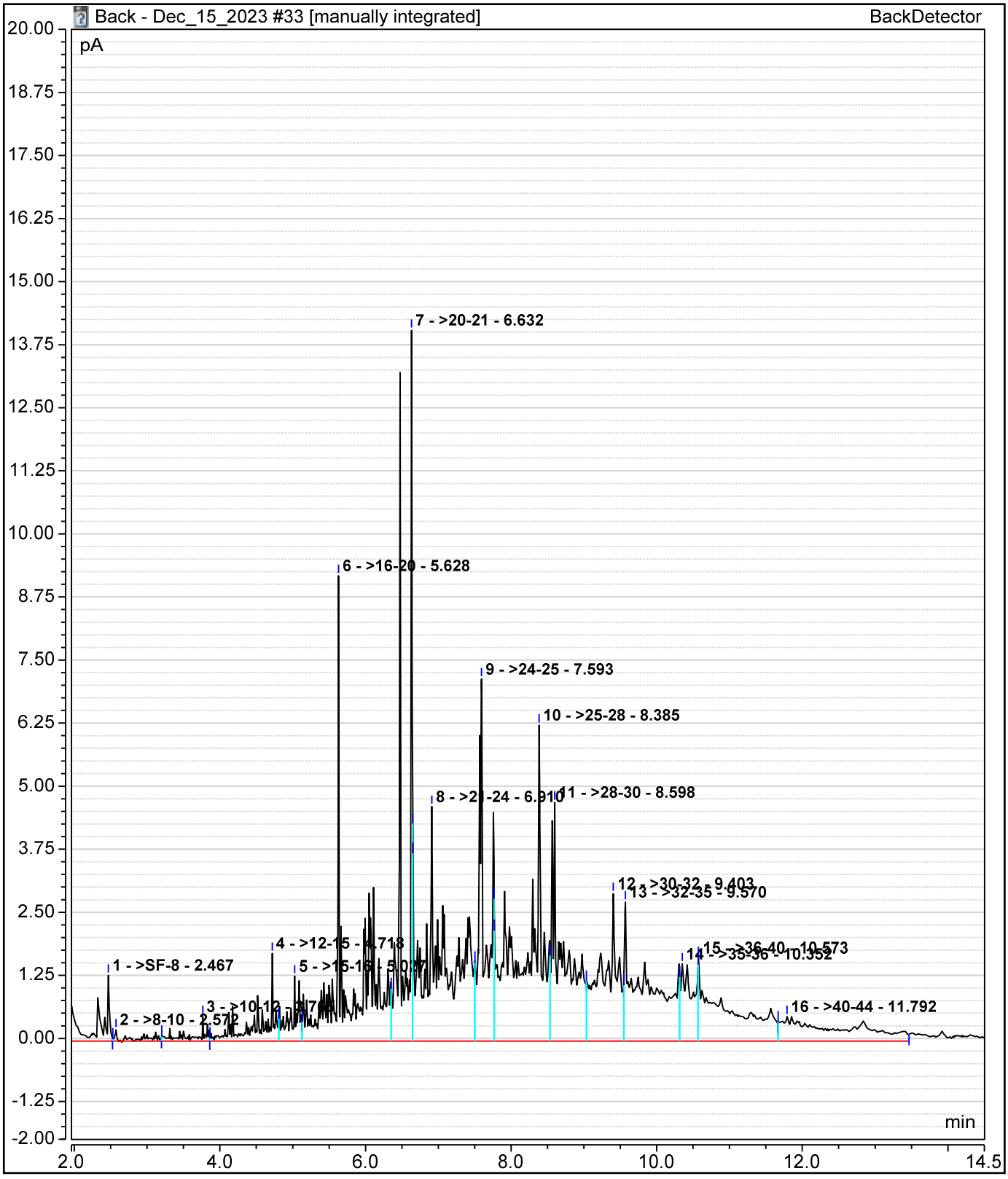
End of Report

Chromatogram



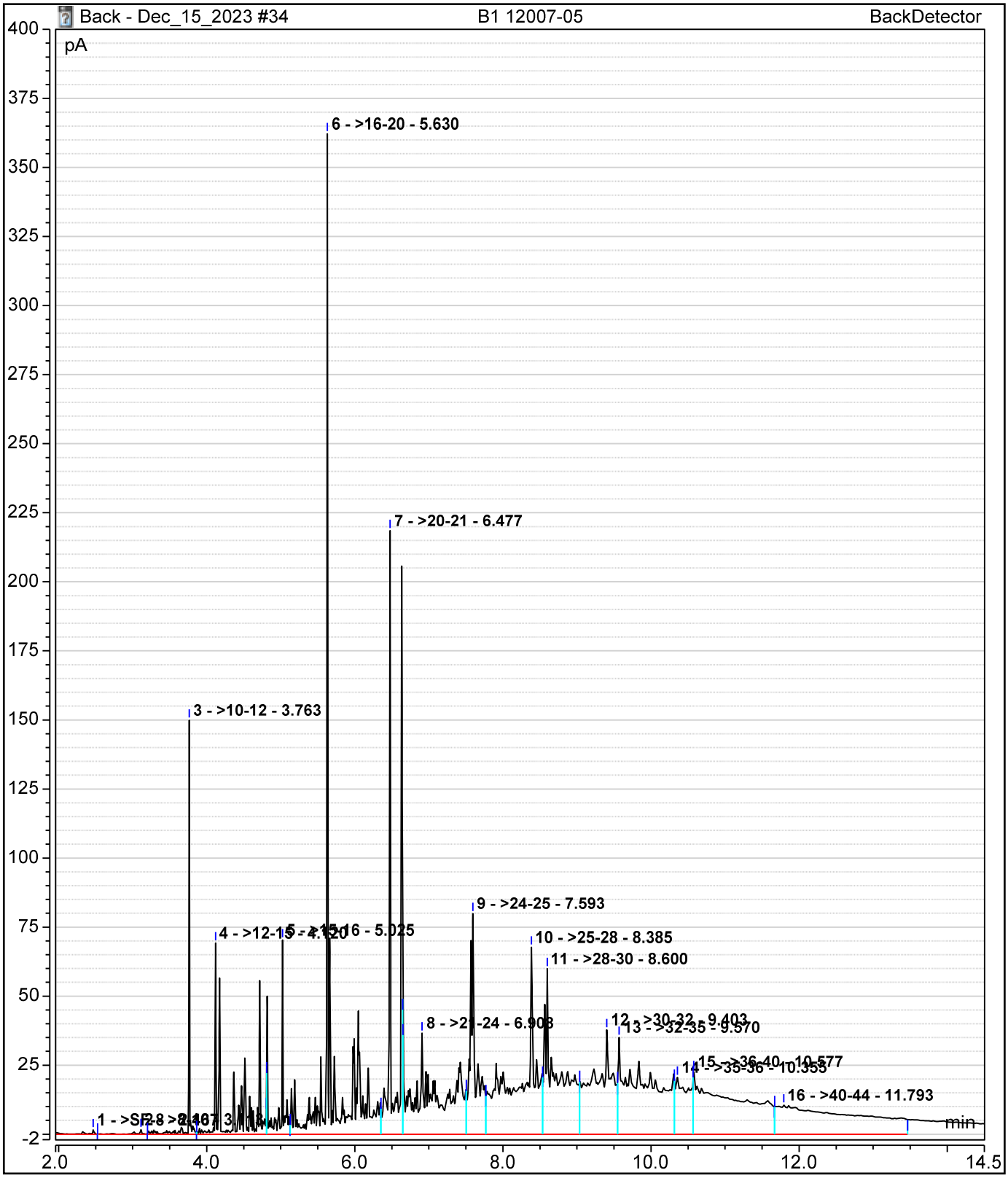
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Chromatogram



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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

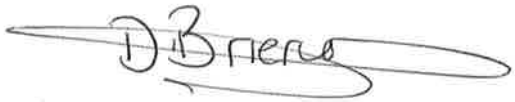
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/00632
Issue Number: 1 **Date:** 02 February, 2024

Client: Sutcliffe
18-20 Harrington Street
Liverpool
L2 9QA

Project Manager: (Use) D Evans; D Bowen; A Tosh; W Baldwin/(Use) Sa
Project Name: Cheetham
Project Ref: 33716LG
Order No: 10188
Date Samples Received: 22/01/24
Date Instructions Received: 24/01/24
Date Analysis Completed: 02/02/24

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 24/00632

Client Project Name: Cheetham

Client Project Ref: 33716LG

Lab Sample ID	24/00632/1	24/00632/2	24/00632/3	24/00632/4	24/00632/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	WS112	WS107	TP108	WS110					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.20	0.30	0.30	0.30	0.30					
Date Sampled	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	6	6E	6AE	6E	6AE					
% Moisture at <40C$_A$	17.1	25.7	16.3	32.9	19.4			% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	35.3	3.4	8.6			% w/w	0.1	A-T-044
Leachate Prep NRA (10:1)$_A$	*	*	*	*	*					A-T-001
pH (leachable)$_A$	7.99	6.99	7.51	7.23	7.67			pH	0.01	A-T-031w
Sulphate (leachable)$_A$	5.36	<1.00	<1.00	1.41	1.89			mg/l	1	A-T-026w
Cyanide (total) (leachable)$_A$	<0.005	<0.005	<0.005	<0.005	<0.005			mg/l	0.005	A-T-042wTCN
Phenols (total by HPLC) (leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	A-T-050w
Sulphide (leachable)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			mg/l	0.1	A-T-043-w
DOC (leachable)$_A$	2.5	6.2	5.6	8.4	4.9			mg/l	2	A-T-032w
Arsenic (leachable)$_A$	<1	<1	5	1	4			µg/l	1	A-T-025w
Boron (leachable)$_A$	11	11	<10	11	12			µg/l	10	A-T-025w
Cadmium (leachable)$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Copper (leachable)$_A$	<4	8	20	9	7			µg/l	4	A-T-025w
Chromium (leachable)$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Chromium (hexavalent) (leachable)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05			mg/l	0.05	A-T-040w
Chromium (trivalent)	<0.05	<0.05	<0.05	<0.05	<0.05			mg/l	0.05	Calc
Lead (leachable)$_A$	<1	4	60	11	9			µg/l	1	A-T-025w
Mercury (leachable)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	A-T-025w
Nickel (leachable)$_A$	<2	<2	<2	<2	<2			µg/l	2	A-T-025w
Selenium (leachable)$_A$	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Sulphur (elemental/free) (leachable)$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			mg/l	0.1	A-T-029w
Zinc (leachable)$_A$	3	19	19	18	9			µg/l	2	A-T-025w
TPH total (>C6-C40) (leachable)$_A$	<80	<80	<80	<80	<80			µg/l	80	A-T-007w

Envirolab Job Number: 24/00632

Client Project Name: Cheetham

Client Project Ref: 33716LG

Lab Sample ID	24/00632/1	24/00632/2	24/00632/3	24/00632/4	24/00632/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP101	WS112	WS107	TP108	WS110					
Depth to Top	0.00	0.00	0.00	0.00	0.00					
Depth To Bottom	0.20	0.30	0.30	0.30	0.30					
Date Sampled	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	6	6E	6AE	6E	6AE					
PAH-16MS (leachable)										
Acenaphthene (leachable)$_A$	0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Acenaphthylene (leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Anthracene (leachable)$_A$	0.04	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(a)anthracene (leachable)$_A$	0.15	<0.01	0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(a)pyrene (leachable)$_A$	0.14	<0.01	0.02	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (leachable)$_A$	0.14	<0.01	0.02	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(ghi)perylene (leachable)$_A$	0.07	<0.01	0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (leachable)$_A$	0.06	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Chrysene (leachable)$_A$	0.16	<0.01	0.02	<0.01	<0.01			µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (leachable)$_A$	0.03	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Fluoranthene (leachable)$_A$	0.19	<0.01	0.04	<0.01	<0.01			µg/l	0.01	A-T-019w
Fluorene (leachable)$_A$	0.02	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (leachable)$_A$	0.08	<0.01	0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Naphthalene (leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			µg/l	0.01	A-T-019w
Phenanthrene (leachable)$_A$	0.12	<0.01	0.02	0.01	<0.01			µg/l	0.01	A-T-019w
Pyrene (leachable)$_A$	0.17	<0.01	0.03	<0.01	<0.01			µg/l	0.01	A-T-019w
Total PAH-16MS (leachable)$_A$	1.38	<0.01	0.18	0.01	<0.01			µg/l	0.01	A-T-019w

Report Notes

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Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

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

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

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

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^{o}C / 11550µS/cm @ 20^{o}C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Sutcliffe, 18-20 Harrington Street, Liverpool, L2 9QA

Project No: 24/00632

Date Received: 24/01/2024 (am)

Project: Cheetham

Cool Box Temperatures (°C): 8.3

Clients Project No: 33716LG

NO DEVIATIONS IDENTIFIED

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

Envirolab Analysis Dates

Lab Sample ID	24/00632/1	24/00632/2	24/00632/3	24/00632/4	24/00632/5
Client Sample No					
Client Sample ID/Depth	TP101 0.00-0.20m	WS112 0.00-0.30m	WS107 0.00-0.30m	TP108 0.00-0.30m	WS110 0.00-0.30m
Date Sampled	19/01/24	19/01/24	19/01/24	19/01/24	19/01/24
A-T-007w	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-019w	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-025w	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-026w	01/02/2024	01/02/2024	01/02/2024	01/02/2024	01/02/2024
A-T-029w	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-031w	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-032w	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
A-T-040w	01/02/2024	01/02/2024	01/02/2024	01/02/2024	01/02/2024
A-T-042wTCN	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
A-T-043-w	02/02/2024	02/02/2024	02/02/2024	02/02/2024	02/02/2024
A-T-044	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
A-T-050w	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Calc	01/02/2024	01/02/2024	01/02/2024	01/02/2024	01/02/2024

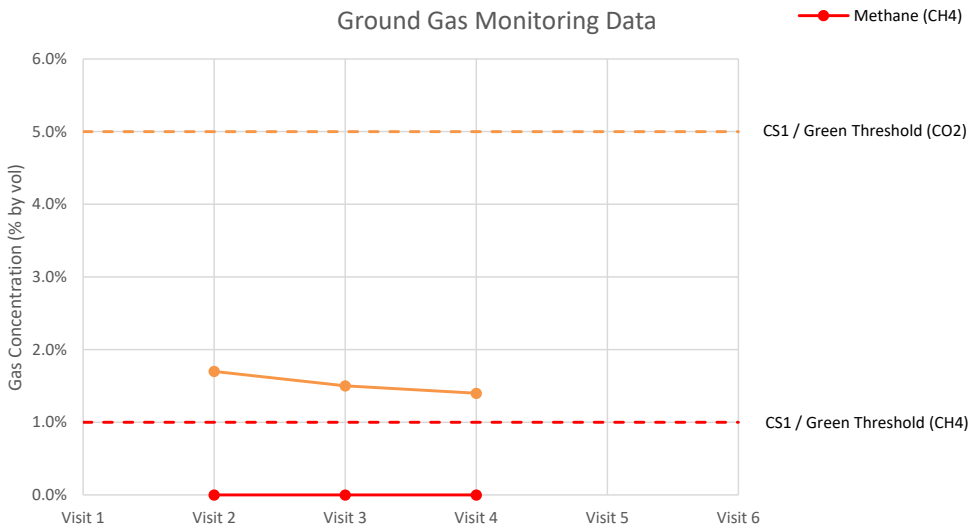
The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

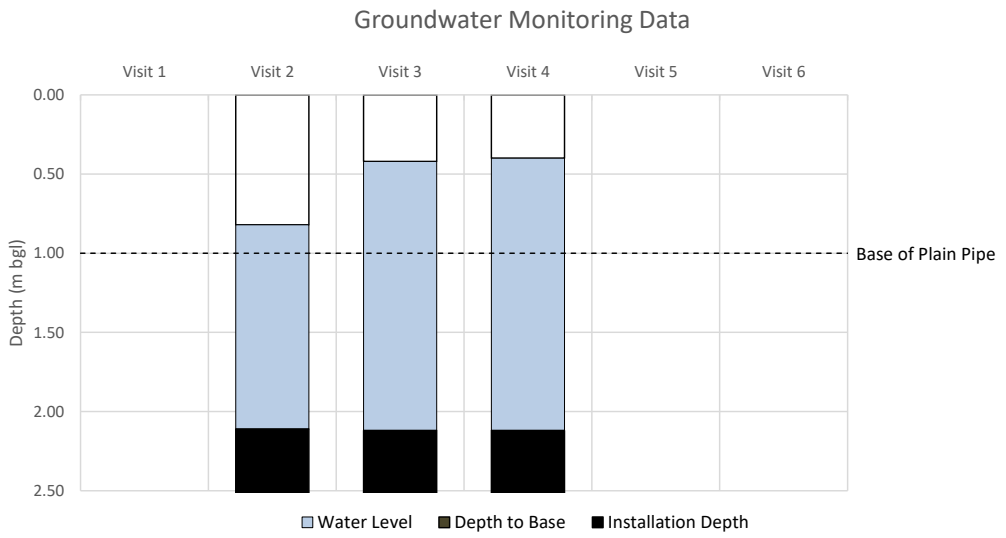
End of Report

Appendix E – Ground Gas & Groundwater Monitoring Data

SUTCLIFFE INVESTIGATIONS		Site Details		Installation Details		Position Ref.:
		Job No.:	33716LG	Installation Date:	30/11/2023	
TEL: 0151 227 3155		Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	2.00	WS103
FAX: 0151 227 3156		Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00*	#N/A	0.0%	1.7%	15.6%	0.82	2.11					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00*	#N/A	0.0%	1.5%	17.0%	0.42	2.12					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00*	#N/A	0.0%	1.4%	17.0%	0.40	2.12	CO_2	0.10	1.70	0.0017	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	-	#N/A	#N/A	#N/A	#N/A	-	-					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

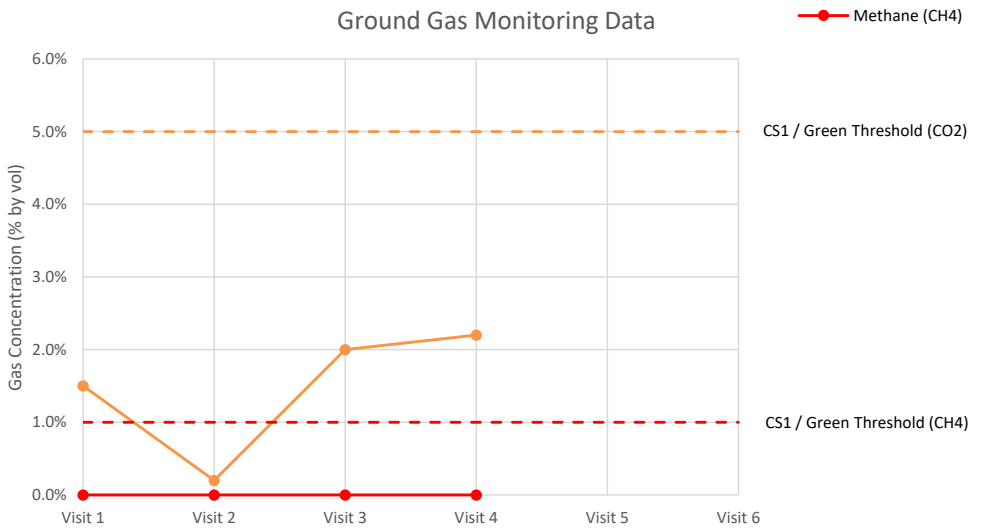
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

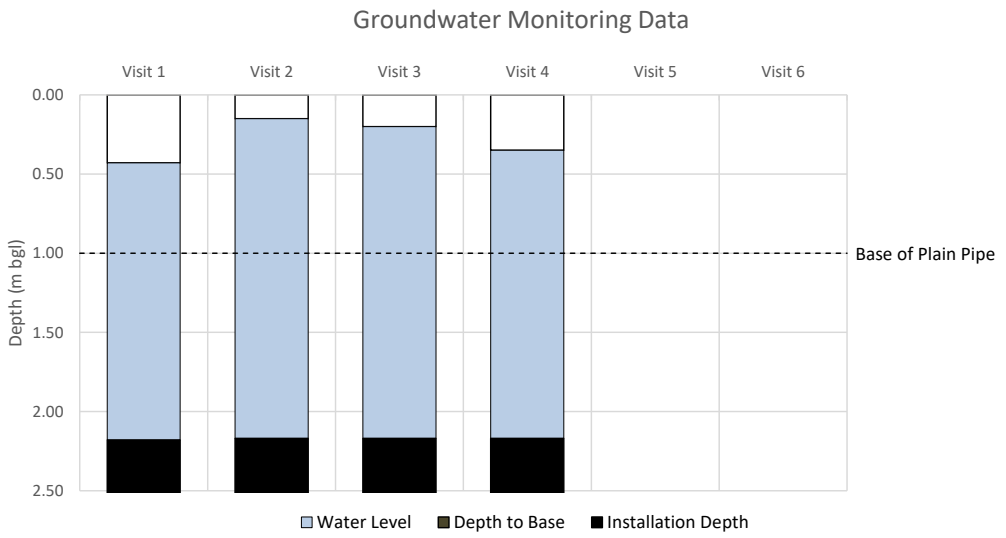
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	29/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	2.00	WS104
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	0.00*	#N/A	0.0%	1.5%	18.4%	0.43	2.18	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00*	#N/A	0.0%	0.2%	19.7%	0.15	2.17					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00*	#N/A	0.0%	2.0%	12.3%	0.20	2.17					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00*	#N/A	0.0%	2.2%	12.5%	0.35	2.17	CO_2	0.10	2.20	0.0022	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	-	#N/A	#N/A	#N/A	#N/A	-	-					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

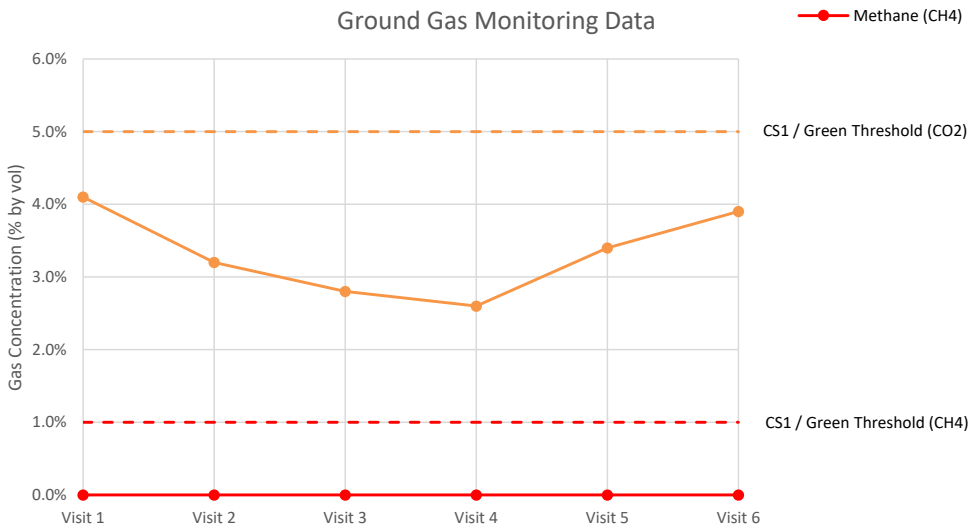
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

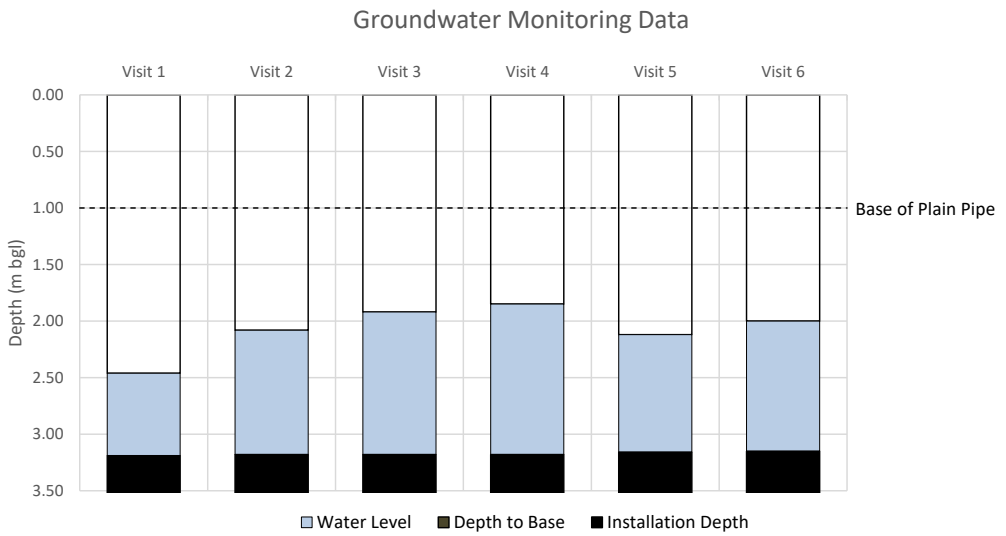
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS		Site Details		Installation Details		Position Ref.:
		Job No.:	33716LG	Installation Date:	28/11/2023	
TEL: 0151 227 3155		Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	3.00	WS105A
FAX: 0151 227 3156		Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	0.00	#N/A	0.0%	4.1%	11.3%	2.46	3.19	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00	#N/A	0.0%	3.2%	15.1%	2.08	3.18					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00	#N/A	0.0%	2.8%	15.5%	1.92	3.18					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00	#N/A	0.0%	2.6%	15.9%	1.85	3.18	CO_2	0.10	4.10	0.0041	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00	#N/A	0.0%	3.4%	15.2%	2.12	3.16					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00	#N/A	0.0%	3.9%	14.3%	2.00	3.15					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

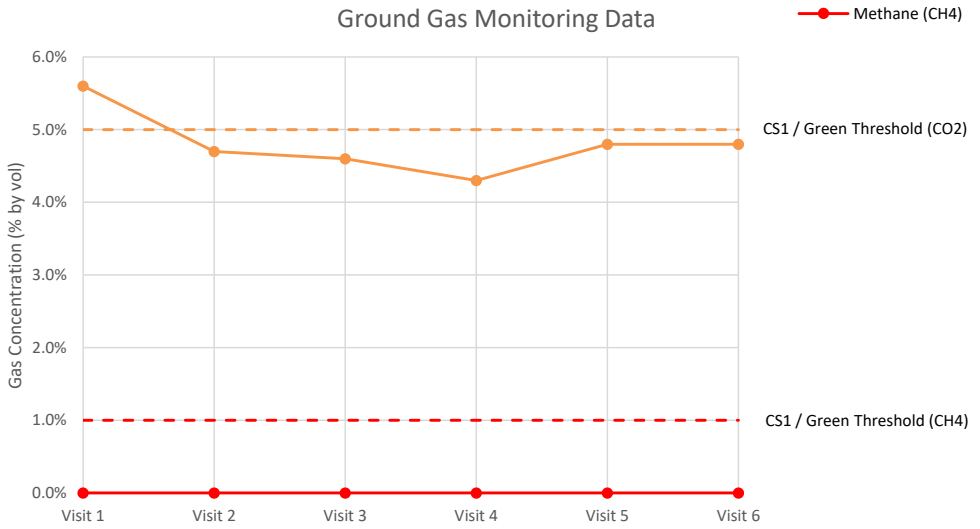
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

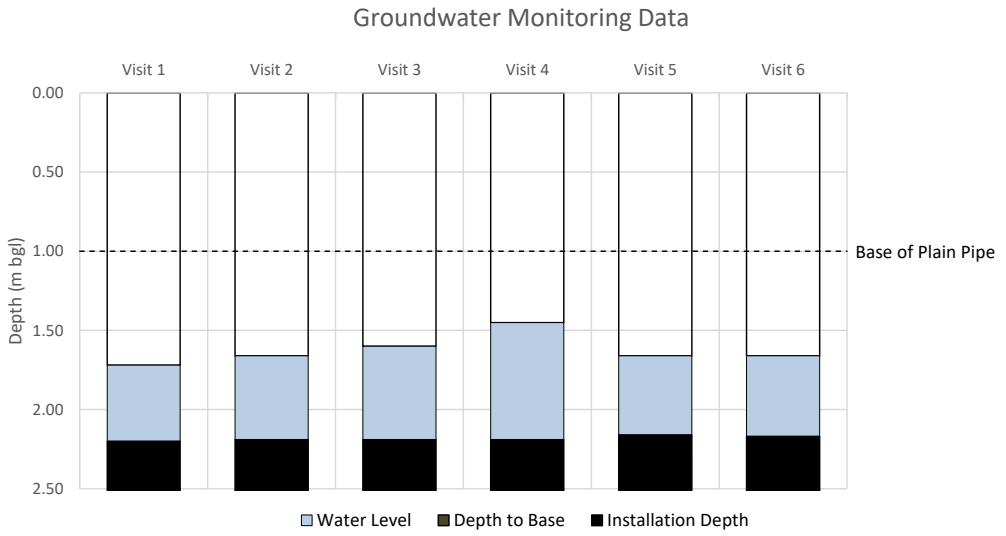
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	27/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	2.00	WS106
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	0.00	#N/A	0.0%	5.6%	7.7%	1.72	2.20	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00	#N/A	0.0%	4.7%	10.0%	1.66	2.19					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00	#N/A	0.0%	4.6%	13.0%	1.60	2.19					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00	#N/A	0.0%	4.3%	13.5%	1.45	2.19	CO_2	0.10	4.80	0.0048	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00	#N/A	0.0%	4.8%	15.0%	1.66	2.16					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00	#N/A	0.0%	4.8%	10.4%	1.66	2.17					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

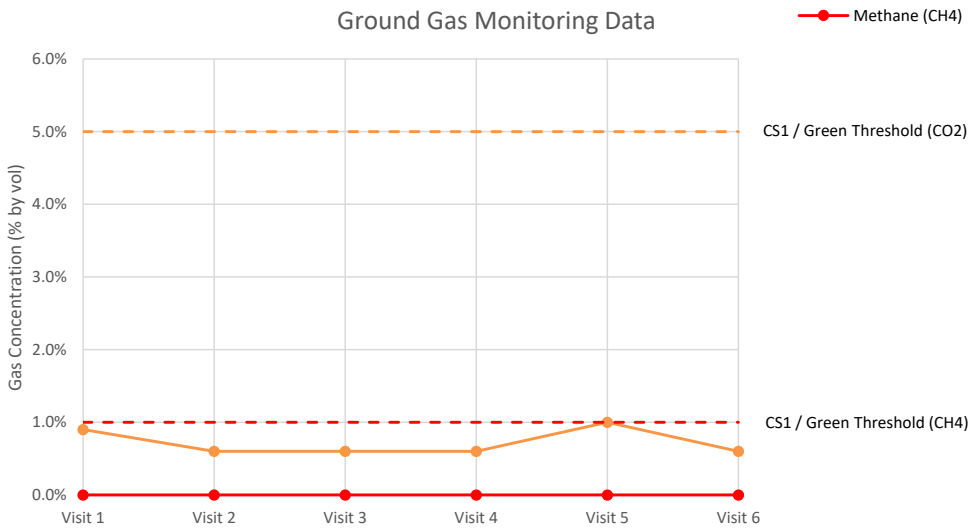
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

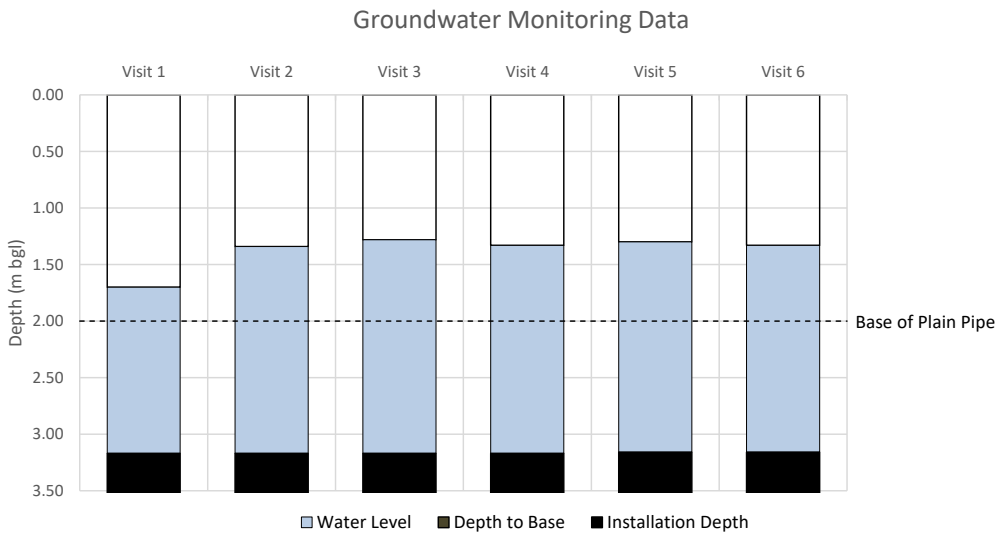
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	28/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	3.00	WS107
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	2.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	0.00*	#N/A	0.0%	0.9%	18.2%	1.70	3.17	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00*	#N/A	0.0%	0.6%	19.6%	1.34	3.17					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00*	#N/A	0.0%	0.6%	19.4%	1.28	3.17					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00*	#N/A	0.0%	0.6%	19.2%	1.33	3.17	CO_2	0.10	1.00	0.0010	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00*	#N/A	0.0%	1.0%	17.9%	1.30	3.16					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00*	#N/A	0.0%	0.6%	19.5%	1.33	3.16					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

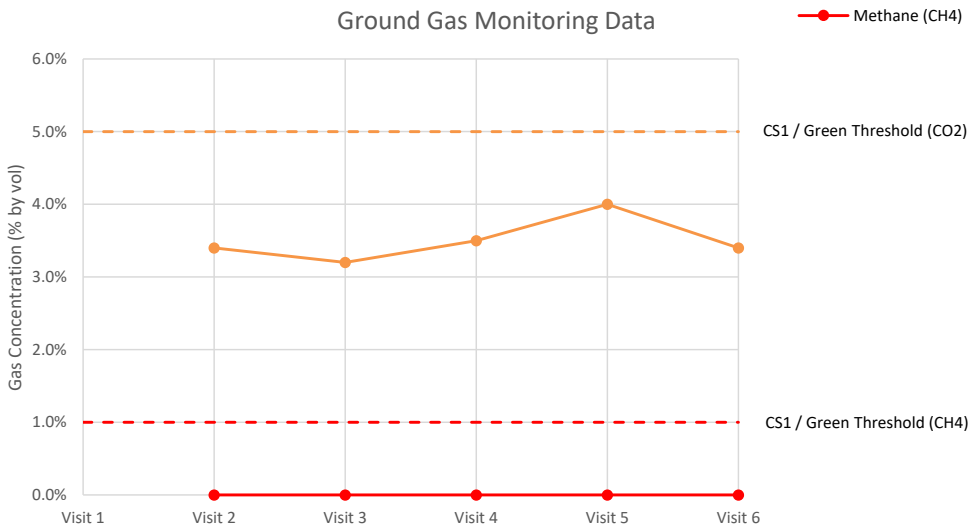
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

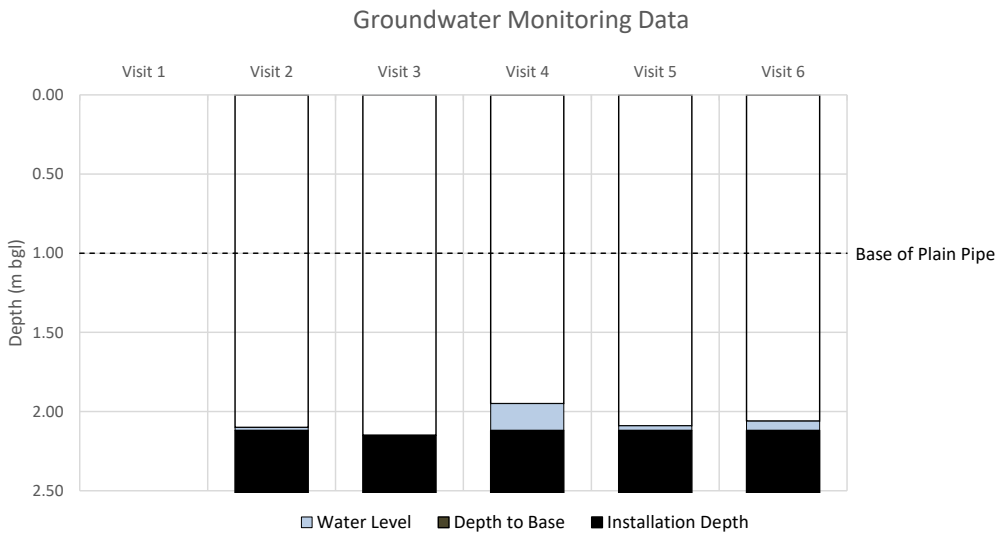
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	28/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	2.00	WS109
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00	#N/A	0.0%	3.4%	15.0%	2.10	2.12					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00	#N/A	0.0%	3.2%	19.4%	2.15	2.12					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00	#N/A	0.0%	3.5%	19.3%	1.95	2.12	CO_2	0.10	4.00	0.0040	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00	#N/A	0.0%	4.0%	10.0%	2.09	2.12					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00	#N/A	0.0%	3.4%	13.5%	2.06	2.12					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

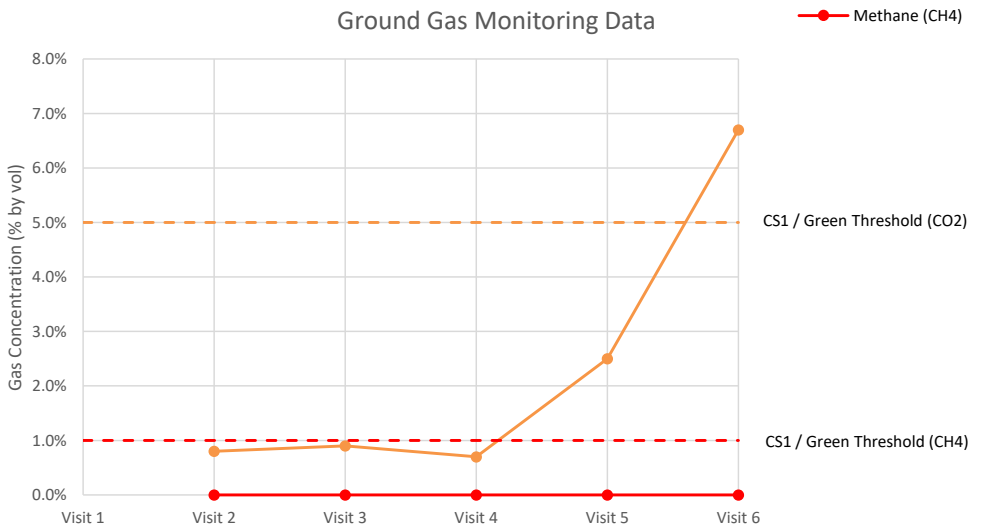
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

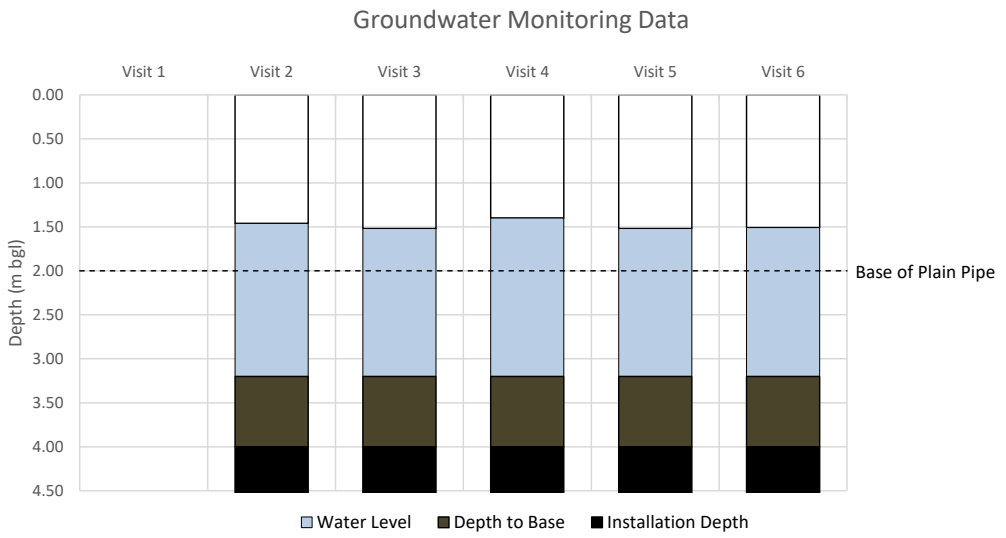
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	29/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	4.00	WS110
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	2.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-					
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00*	#N/A	0.0%	0.8%	19.3%	1.46	3.20	CH_4	0.10	0.10	0.0001	CS1
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00*	#N/A	0.0%	0.9%	19.2%	1.52	3.20					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00*	#N/A	0.0%	0.7%	19.1%	1.40	3.20					
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00*	#N/A	0.0%	2.5%	15.0%	1.52	3.20	CO_2	0.10	6.70	0.0067	CS1
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00*	#N/A	0.0%	6.7%	8.1%	1.51	3.20					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

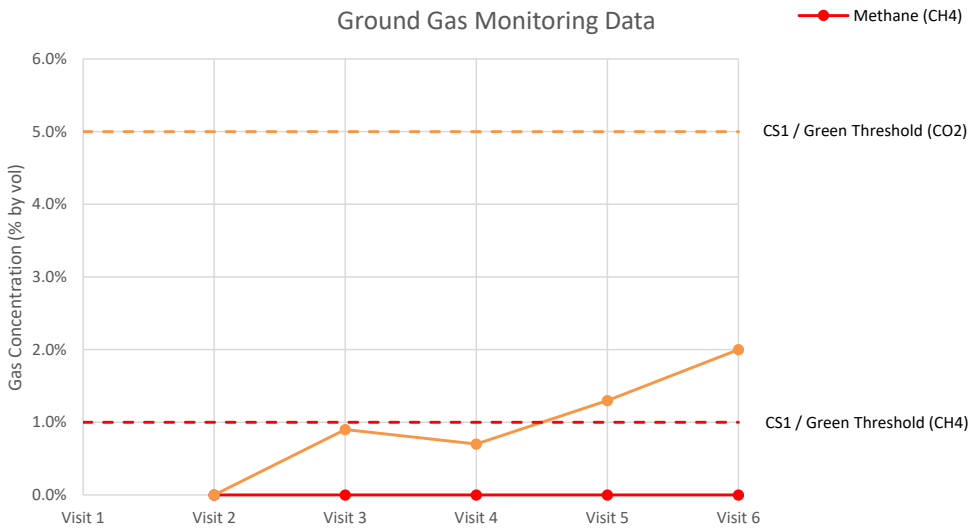
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

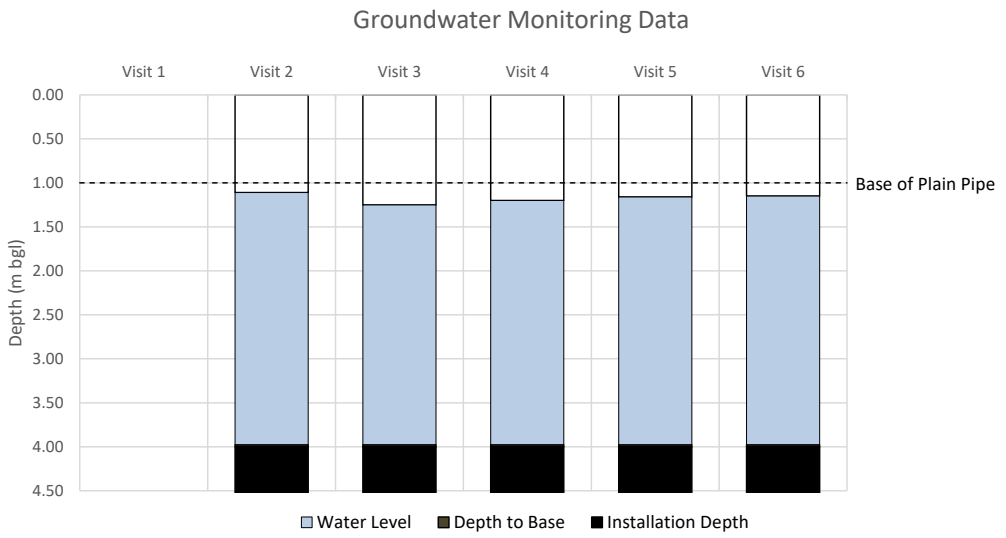
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	27/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	4.00	WS111
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00	#N/A	0.0%	0.0%	20.0%	1.11	3.98					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00	#N/A	0.0%	0.9%	19.4%	1.25	3.98					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00	#N/A	0.0%	0.7%	19.7%	1.20	3.98	CO_2	0.10	2.00	0.0020	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00	#N/A	0.0%	1.3%	18.4%	1.16	3.98					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00	#N/A	0.0%	2.0%	16.2%	1.15	3.98					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

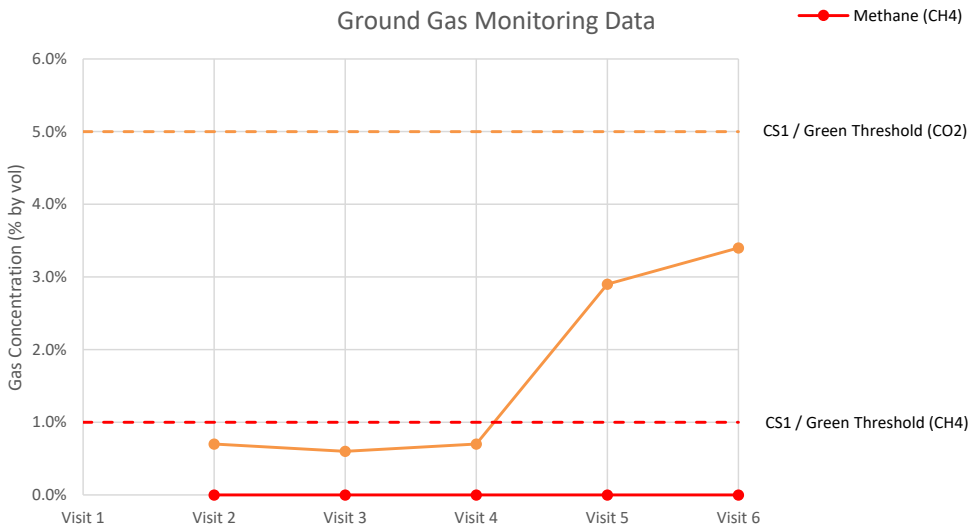
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

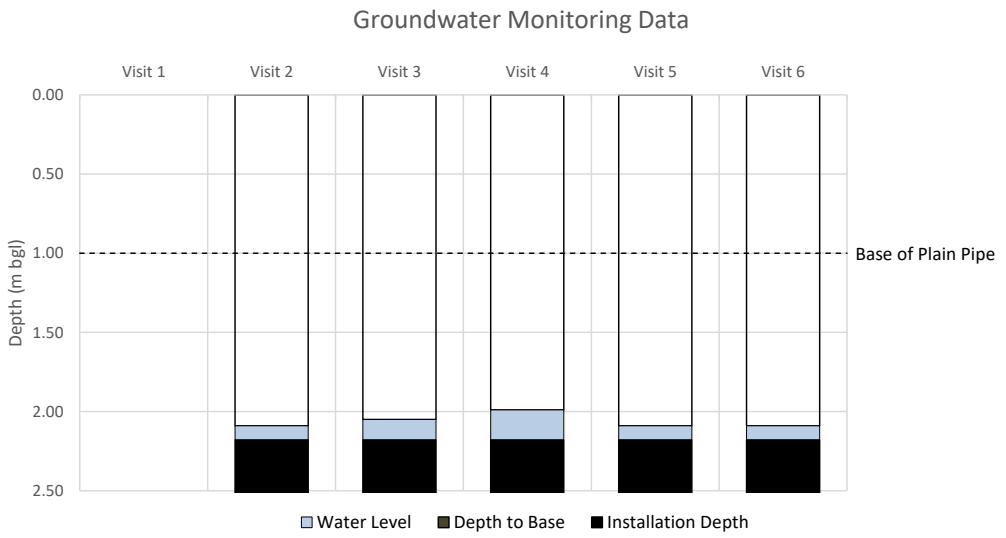
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	01/12/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	2.00	WS113
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00	#N/A	0.0%	0.7%	19.6%	2.09	2.18					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00	#N/A	0.0%	0.6%	19.6%	2.05	2.18					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00	#N/A	0.0%	0.7%	19.5%	1.99	2.18	CO_2	0.10	3.40	0.0034	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00	#N/A	0.0%	2.9%	15.7%	2.09	2.18					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00	#N/A	0.0%	3.4%	15.3%	2.09	2.18					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

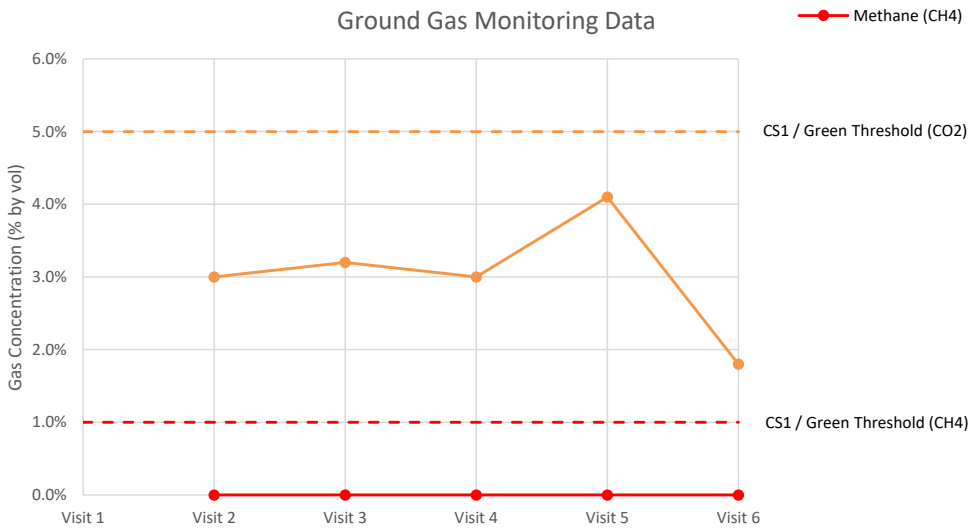
[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

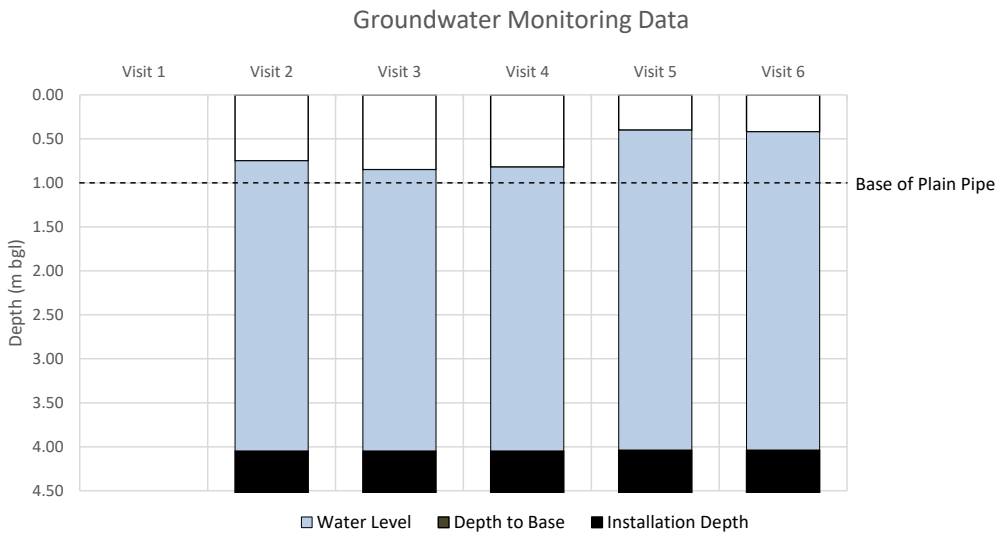
[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

SUTCLIFFE INVESTIGATIONS	Site Details		Installation Details		Position Ref.:
	Job No.:	33716LG	Installation Date:	27/11/2023	
TEL: 0151 227 3155	Site Name:	Cheetham Hill, Manchester	Installation Depth (m bgl):	4.00	WS116
FAX: 0151 227 3156	Client:	MSV Housing	Base of Plain Pipe (m bgl):	1.00	

Site Monitoring Visit Details							Gas and Groundwater Monitoring Data							Ground Gas Risk Assessment				
Visit No.	Visit Date	Logged By	Weather	Atmospheric Pressure	Pressure Trend	Relative Pressure (mb)	Flow Rate (l/h)	Max CH_4 (% LEL)	Max CH_4 (% by vol)	Max CO_2 (% by vol)	Min O_2 (% by vol)	Water Level (m bgl)	Depth to Base (m bgl)	Gas Type	Max Flow Rate[2] (l/h)	Max Gas Conc.[3] (% by vol)	HGFR[1] (l/h)	Characteristic Situation (CS)
Visit 1	19/01/2024	MW	Cloudy	1008mB	Steady	-	-	#N/A	#N/A	#N/A	#N/A	-	-	CH_4	0.10	0.10	0.0001	CS1
Visit 2	02/02/2024	MW	Cloudy	1015mB	Falling	-	0.00*	#N/A	0.0%	3.0%	13.6%	0.75	4.05					
Visit 3	14/02/2024	MW	Cloudy	1001mB	Steady	-	0.00*	#N/A	0.0%	3.2%	13.3%	0.85	4.05					
Visit 4	01/03/2024	MW	Raining	980mB	Steady	-	0.00*	#N/A	0.0%	3.0%	14.1%	0.82	4.05	CO_2	0.10	4.10	0.0041	CS1
Visit 5	03/04/2024	MW	Raining	988mB	Steady	-	0.00*	#N/A	0.0%	4.1%	11.3%	0.40	4.04					
Visit 6	15/04/2024	MW	Cloudy	997mB	Falling	-	0.00*	#N/A	0.0%	1.8%	19.0%	0.42	4.04					





Instrument Used:	Accuracy of Instrument (% by volume)	CH_4	CO_2	O_2	Comments:
GFM		± 0.5% @ 5%	± 0.5% @ 5%	± 1.0%	
		± 1.0% @15%	± 1.0% @15%		
		±3.0% @>15%	±3.0% @>15%		

[1] Hazardous Gas Flow Rate Assessment Methodology (HGFR) is the calculation of the maximum gas concentration for the location x maximum flow rate for the location.

[2] Where maximum recorded flow is <0.1l/h, 0.1l/h has been used to calculate HGFR as recommended in CIRIA C665.

[3] Where maximum recorded concentration is <0.1%, 0.1% has been used as recommended in BS8485.

* Peak flow recorded is likely to be due to a build-up of hydraulic pressure caused by rising water trapping the gas within the solid section of pipe; the initial peak flow is not representative of the rate of gas generation within the ground and can be discounted from the dataset.

Appendix F – Geotechnical Laboratory Certificates

Units 1 & 2
Deltic Place
Deltic Way
Knowsley Industrial Estate
Liverpool
L33 7BU

Telephone: (0151) 545 2750
Fax: (0151) 548 7892
Email: enquiries@ccgeotechnical.com
www.ccgeotechnical.com

CC GEOTECHNICAL LTD
Consulting Geoenvironmental and Geotechnical Engineers

LABORATORY REPORT

CONTRACT NUMBER: CCG-C-23-14399

CONTRACT TITLE: CHEETHAM HILL, MANCHESTER

CLIENT: SUTCLIFFE
18-20 Harrington Street, Liverpool L2 9QA

DATE RECEIVED: 30/11/23
DATE COMMENCED: 30/11/23
DATE COMPLETED: 08/12/23
REPORT DATE: 11/12/23

Test Description	Qty
Determination of Moisture Content BS1377-2:1990 (a)	5
Determination of Liquid & Plastic Limits BS 1377-2:1990 (a)	5
Particle Size Distribution BS 1377-2:1990 (a)	3
One-Dimensional Consolidation BS1377-5:1990 (a)	1

Notes: Observations and interpretations are not accredited by UKAS
All testing undertaken at laboratory permanent facilities
# denotes non-accredited test
a denotes UKAS accredited test
s denotes test undertaken by approved subcontractor
Test results only relate to the samples tested
Sample and sample information supplied by client

This report is issued in accordance with the requirements of the United kingdom Accreditation Services and EN ISO/IEC 17025:2017. The results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without the prior written approval of the laboratory.
Approved Signatories: Chris Bolan (Managing Director) – Daniel Kerfoot (Laboratory Manager)

Registered in England & Wales, Company No. 5085241. Head Office: Unit 1, Deltic Place, Deltic Way, Knowsley Industrial Estate, Liverpool, L33 7BU

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m^3)	Dry Density (Mg/m^3)	Shear Strength (kN/m^2)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
WS104	U	1.60	1.60	22	-	-	>110*	45	20	25	99	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
WS105A	B	1.30	2.00	-	-	-	-	-	-	-	-	-	Y	Brown slightly sandy SILT. (BS1377Pt2:9.2)
WS106	U	2.80	2.80	23	-	-	>110*	48	20	28	98	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
WS107	B	2.00	3.00	-	-	-	-	-	-	-	-	-	Y	Greyish brown silty slightly gravelly fine to medium SAND. Gravel is fine to medium subrounded sandstone. (BS1377Pt2:9.2)
WS110	U	2.60	2.60	20	-	-	>110*	46	19	27	99	CI	Y	Greyish brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
WS111	U	2.70	2.70	22	-	-	80*	47	20	27	99	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
WS115	B	1.40	2.00	-	-	-	-	-	-	-	-	-	Y	Brown very clayey fine to medium SAND. (BS1377Pt2:9.2)
WS116	U	1.60	1.60	20	-	-	>110*	43	18	25	96	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)

SITE: CHEETHAM HILL, MANCHESTER (CCG-C-23-14399) DATE: 11.12.23

CLIENT: SUTCLIFFE

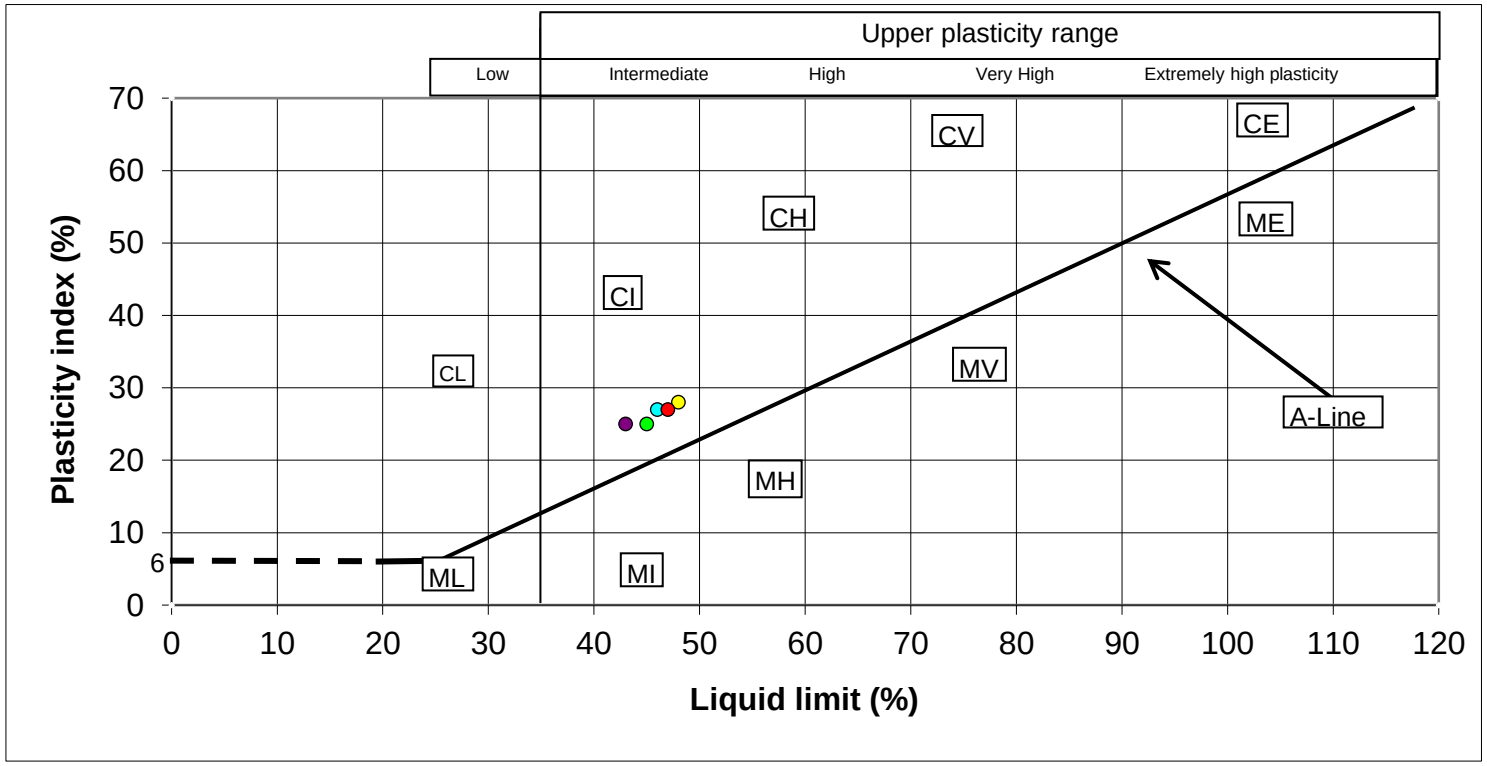
UKAS TESTING 4514

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic
(* Denotes Hand Shear Vane test result)
Sample description not accredited by UKAS

ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
WS104	1.60	45.0	25.0
WS106	2.80	48.0	28.0
WS110	2.60	46.0	27.0
WS111	2.70	47.0	27.0
WS116	1.60	43.0	25.0

UKAS TESTING
4514

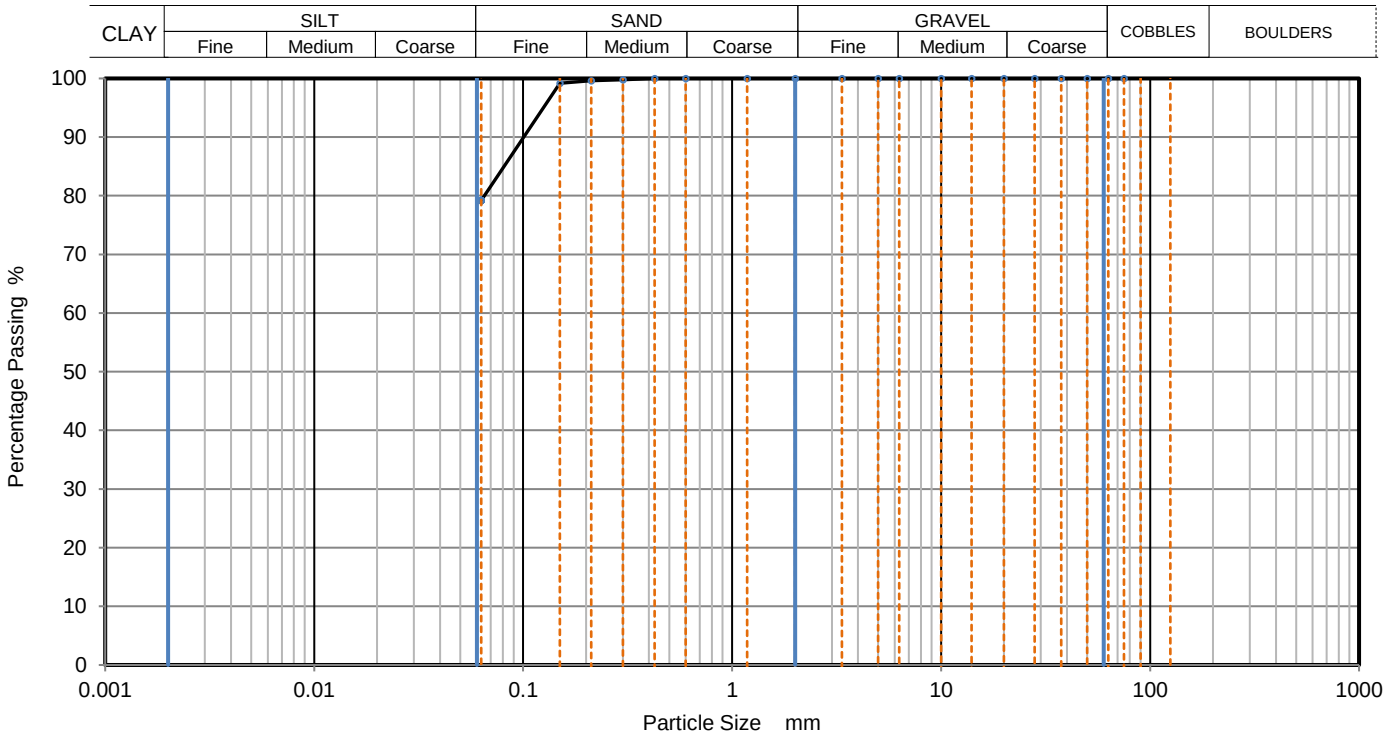
APPROVED BY	DK

CLIENT: SUTCLIFFE	SITE: CHEETHAM HILL, MANCHESTER (CCG-C-23-14399)

CC Geotechnical Ltd
Tel: 0151 545 2750
e: lab@ccgeotechnical.com

PARTICLE SIZE DISTRIBUTION

Job Ref	CCG-C-23-14399		
Borehole/Pit No.	WS105A		
Site Name	CHEETHAM HILL, MANCHESTER	Sample No.	1
Specimen Description	Brown slightly sandy SILT	Depth, m	1.30
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2	KeyLAB ID	CCGL202312110



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	100		
0.15	99		
0.063	79		

Dry Mass of sample, g

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	21
Fines <0.063mm	79

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

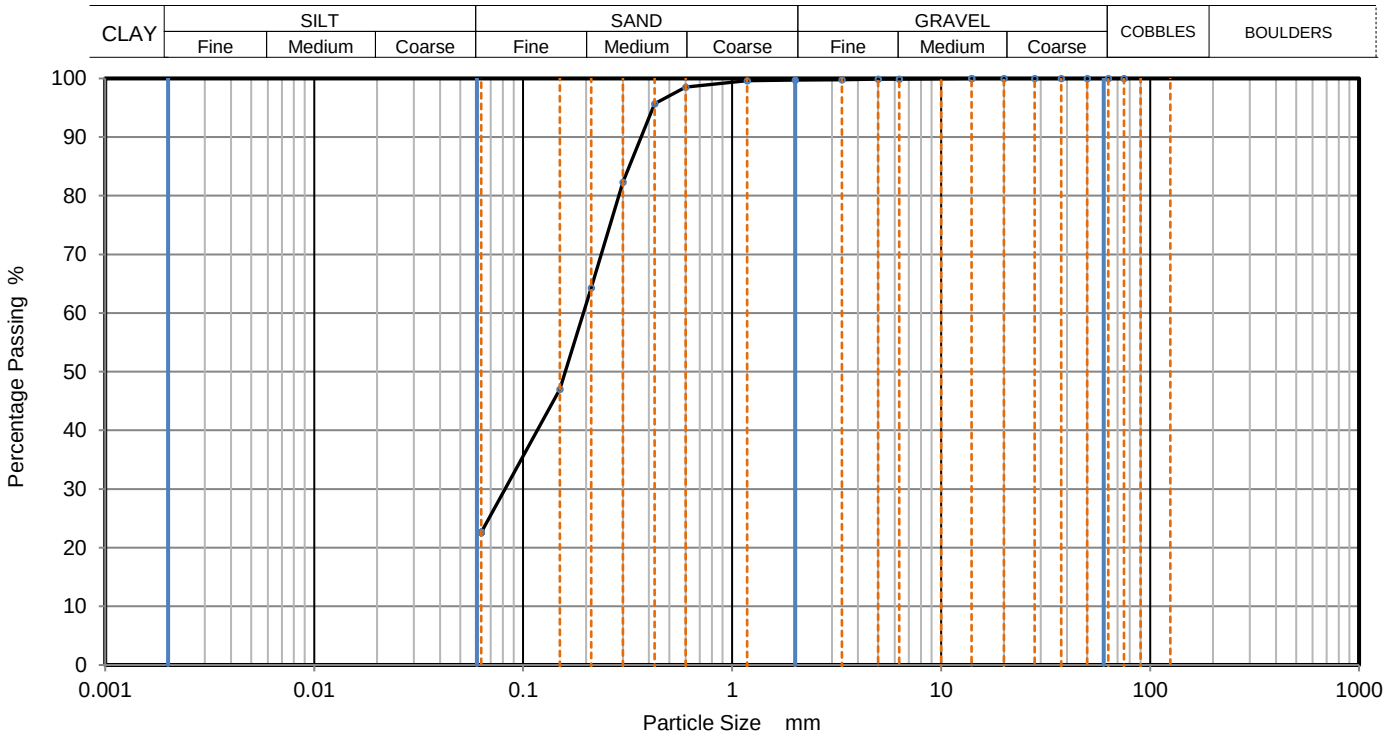
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	Fig 1
JE	DK	DK	11/12/2023 12:07	Sheet

CC Geotechnical Ltd
Tel: 0151 545 2750
e: lab@ccgeotechnical.com

PARTICLE SIZE DISTRIBUTION

Job Ref			CCG-C-23-14399
Borehole/Pit No.			WS115
Site Name	CHEETHAM HILL, MANCHESTER	Sample No.	1
Specimen Description	Brown very clayey fine to medium SAND	Depth, m	1.40
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2	KeyLAB ID	CCGL202312112



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	96		
0.3	82		
0.212	64		
0.15	47		
0.063	23		

Dry Mass of sample, g

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	77
Fines <0.063mm	23

Grading Analysis		
D100	mm	
D60	mm	0.194
D30	mm	0.0819
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

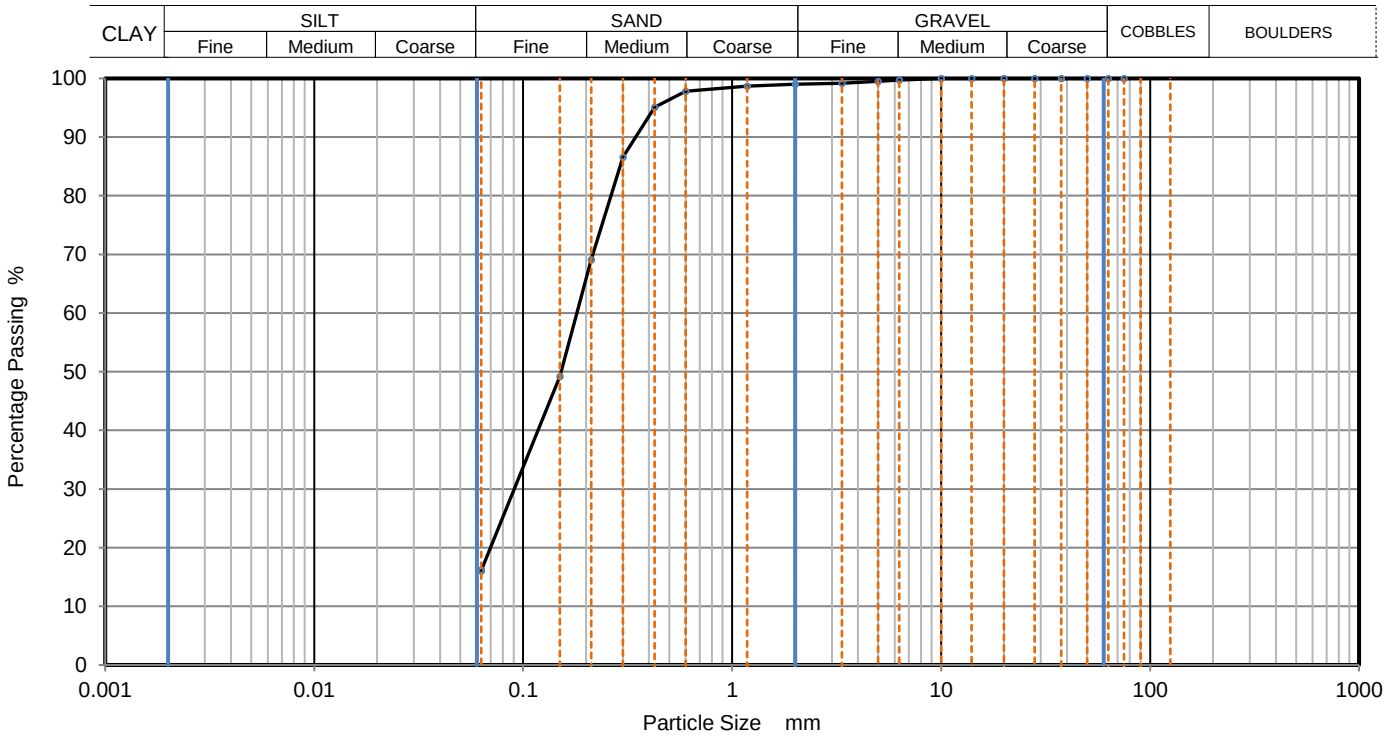
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	Fig 1
JE	DK	DK	11/12/2023 12:07	Sheet

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PARTICLE SIZE DISTRIBUTION

Job Ref			CCG-C-23-14399
Borehole/Pit No.			WS107
Site Name	CHEETHAM HILL, MANCHESTER	Sample No.	1
Specimen Description	Greyish brown silty slightly gravelly fine to medium SAND	Depth, m	2.00
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2	KeyLAB ID	CCGL202312111



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99		
2	99		
1.18	99		
0.6	98		
0.425	95		
0.3	87		
0.212	69		
0.15	49		
0.063	16		

Dry Mass of sample, g

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	83
Fines <0.063mm	16

Grading Analysis		
D100	mm	
D60	mm	0.181
D30	mm	0.0907
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	Fig 1
JE	DK	DK	11/12/2023 12:07	Sheet

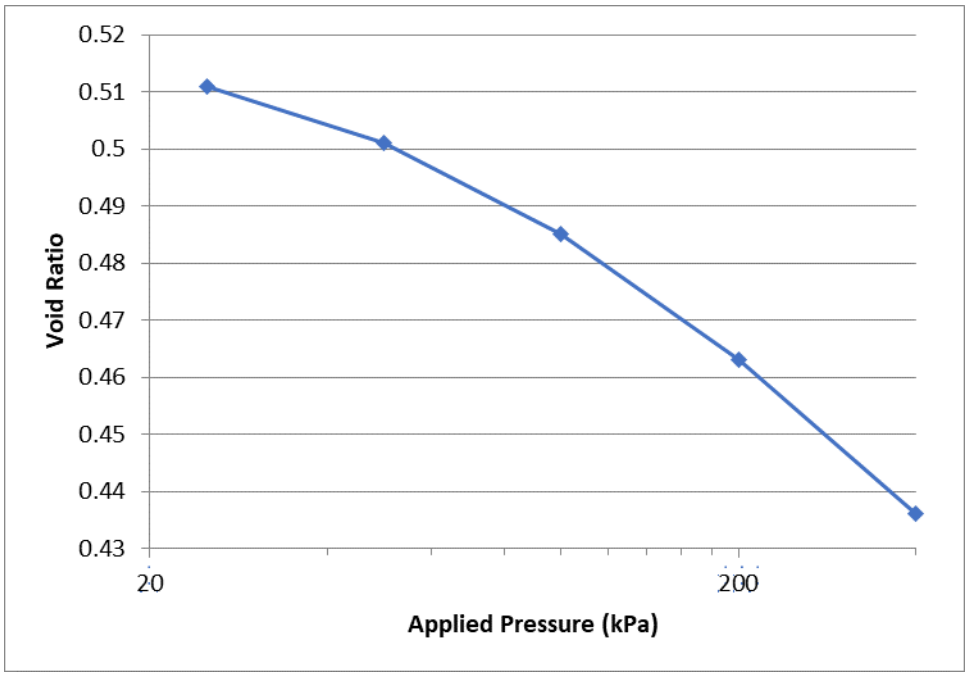
One Dimensional Consolidation Properties
(Oedometer)

Client	SUTCLIFFE	**Lab Ref**	
Project	CHEETHAM HILL, MANCHESTER	**Job**	CCG C 23 14399
Borehole	WS104	**Sample**	1

Test Details			
Standard	BS 1377: Part 5: 1990: Clause 3	**Particle Density (assumed)**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	20.0 deg.C
Sample Depth	1.80 m		
Sample Description	Brown slightly sandy silty CLAY		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	
Depth within Sample	N/A	**Orientation within Sample**	
Specimen Mass	187.09 g	**Condition**	Natural Moisture
Specimen Height	20.22 mm	**Preparation**	
Comments			

Test Apparatus			
Ring Number	9	**Ring Diameter**	75.01 mm
Ring Height	20.22 mm	**Ring Weight**	127.43 g
Lever Ratio	9.00: 1		



Height of Solid Particles	13.07 mm	**Swelling Pressure**	

One Dimensional Consolidation Properties
(Oedometer)

Client	SUTCLIFFE	**Lab Ref**	
Project	CHEETHAM HILL, MANCHESTER	**Job**	CCG C 23 14399
Borehole	WS104	**Sample**	1

Initial Moisture Content*	22.3 %	**Final Moisture Content**	21.2 %
Initial Bulk Density	2.09 Mg/m^3	**Final Bulk Density**	2.24 Mg/m^3
Initial Dry Density	1.71 Mg/m^3	**Final Dry Density**	1.84 Mg/m^3
Initial Void Ratio	0.5473	**Final Void Ratio**	0.4365
Initial Degree of Saturation	107.76 %	**Final Degree of Saturation**	128.47 %

* Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
25.0 kPa	Sample swelled	-------
50.0 kPa	0.26 m^2/MN	**2.8 m^2/ yr**
100.0 kPa	0.21 m^2/MN	**2.8 m^2/ yr**
200.0 kPa	0.15 m^2/MN	**1.9 m^2/ yr**
400.0 kPa	0.090 m^2/MN	**2.0 m^2/ yr**

Method of Time Fitting Used	Log time

Tested by and Date:	DK 05.12.23
Checked by and Date:	DK 05.12.23
Approved by and Date:	CB 05.12.23

Units 1 & 2
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CC GEOTECHNICAL LTD
Consulting Geoenvironmental and Geotechnical Engineers

LABORATORY REPORT

CONTRACT NUMBER: CCG-C-24-14516

CONTRACT TITLE: CHEETHAM HILL

CLIENT: SUTCLIFFE
18-20 Harrington Street, Liverpool L2 9QA

DATE RECEIVED: 12/02/24
DATE COMMENCED: 12/02/24
DATE COMPLETED: 14/02/24
REPORT DATE: 14/02/24

Test Description	Qty
Determination of Moisture Content BS1377-2:1990 (a)	2
Determination of Liquid & Plastic Limits BS 1377-2:1990 (a)	5
Unconsolidated Undrained Triaxial Compression BS1377-7:1990 (a)	3

Notes: Observations and interpretations are not accredited by UKAS
All testing undertaken at laboratory permanent facilities
# denotes non-accredited test
a denotes UKAS accredited test
s denotes test undertaken by approved subcontractor
Test results only relate to the samples tested
Sample and sample information supplied by client

This report is issued in accordance with the requirements of the United kingdom Accreditation Services and EN ISO/IEC 17025:2017. The results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without the prior written approval of the laboratory.
Approved Signatories: Chris Bolan (Managing Director) – Daniel Kerfoot (Laboratory Manager)

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m^3)	Dry Density (Mg/m^3)	Shear Strength (kN/m^2)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
BH201	U	3.00	3.45	24	2.11	1.70	96	51	21	30	100	CH	Y	Brown slightly sandy silty CLAY of high undrained shear strength. (BS1377Pt2:3.2,4.4,5,Pt7:8)
BH201	U	8.00	8.45	28	-	-	60*	47	20	27	99	CI	Y	Brown slightly sandy silty CLAY with occasional sand laminations. (BS1377Pt2:3.2,4.4,5)
BH202	U	6.50	6.95	23	2.03	1.65	47	42	19	23	96	CI	Y	Brown slightly sandy slightly gravelly silty CLAY of high undrained shear strength. Gravel is fine to medium subrounded sandstone and mudstone. (BS1377Pt2:3.2,4.4,5,Pt7:8)
BH203	U	2.00	2.45	21	-	-	>110*	45	20	25	99	CI	Y	Brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
BH203	U	9.50	9.95	22	2.05	1.67	86	46	19	27	94	CI	Y	Brown slightly sandy slightly gravelly silty CLAY of high undrained shear strength. Gravel is fine to medium subrounded sandstone, mudstone, coal (BS1377Pt2:3.2,4.4,5,Pt7:8)

SITE: CHEETHAM HILL (CCG-C-24-14516)

DATE: 14.02.24

CLIENT: SUTCLIFFE

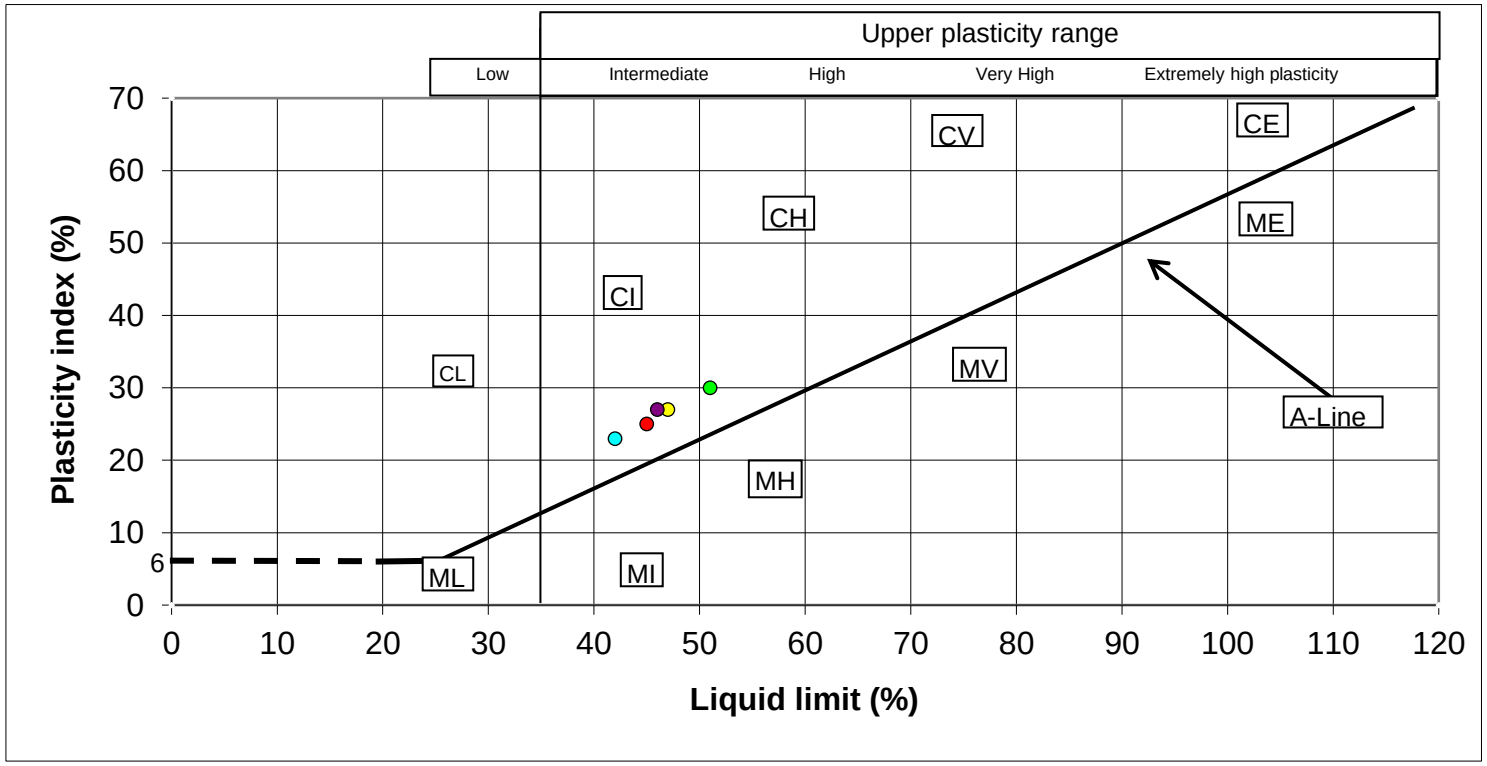
UKAS TESTING 4514

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic
(* Denotes Hand Shear Vane test result)
Sample description not accredited by UKAS

ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
BH201	3.00	51.0	30.0
BH201	8.00	47.0	27.0
BH202	6.50	42.0	23.0
BH203	2.00	45.0	25.0
BH203	9.50	46.0	27.0

UKAS TESTING
4514

APPROVED BY	DK

CLIENT: SUTCLIFFE	SITE: CHEETHAM HILL (CCG-C-24-14516)

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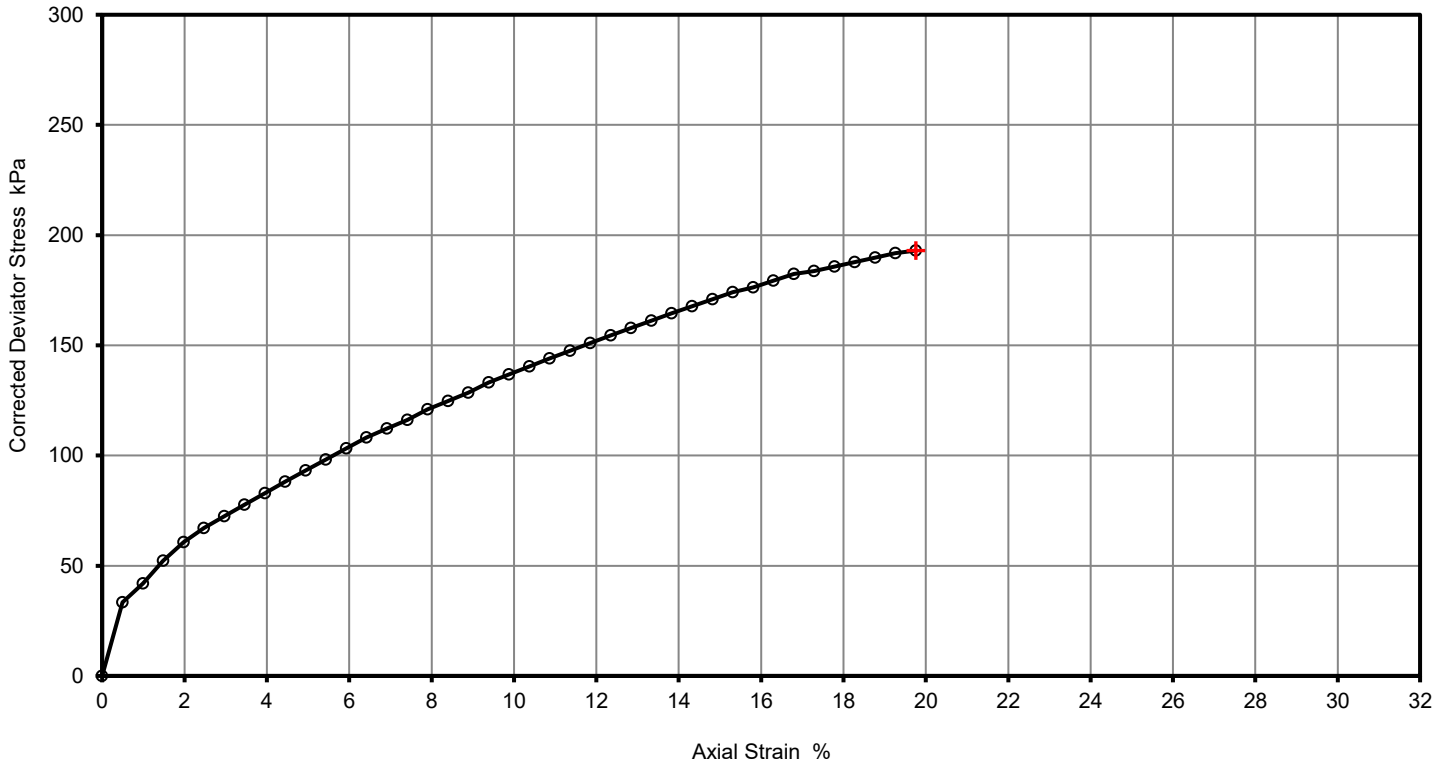
Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen

Job Ref	CCG-C-24-14516				
Borehole/Pit No.	BH201				
Site Name	CHEETHAM HILL		Sample No.	1	
Soil Description			Depth	3.00	
Specimen Reference		Specimen Depth m	Sample Type	U	
Specimen Description	Brown slightly gravelly silty CLAY		Date of test		
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen		12/02/2024		

UKAS TESTING 4514

Test Number		1	
Length		202.5	mm
Diameter		101.2	mm
Bulk Density		2.11	Mg/m3
Moisture Content		24.1	%
Dry Density		1.70	Mg/m3
Rate of Strain		2.0	%/min
Cell Pressure		60	kPa
At failure	Axial Strain	19.8	%
	Deviator Stress, (σ1 - σ3)f	193	kPa
	Undrained Shear Strength, cu	96	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

Deviator Stress v Axial Strain



Remarks

0.5mm membrane, correction factor = 1.88

Approved: DanielKerfoot

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Fig. No. 1

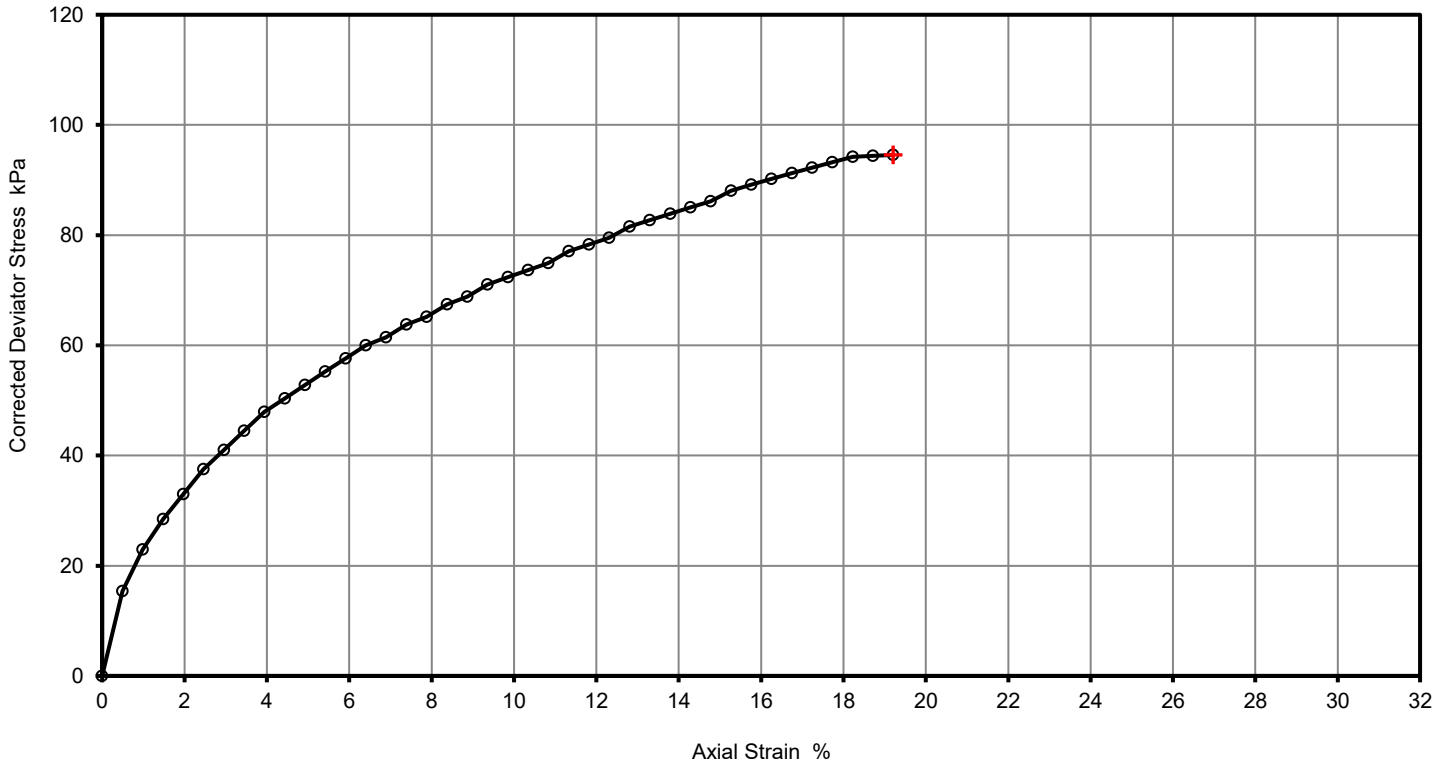
Sheet 1

CC Geotechnical Ltd Tel: 0151 545 2750 e: lab@ccgeotechnical.com	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	CCG-C-24-14516
				Borehole/Pit No.	BH202
Site Name	CHEETHAM HILL			Sample No.	1
Soil Description				Depth	6.50
Specimen Reference		Specimen Depth	m	Sample Type	U
Specimen Description	Brown slightly sandy slightly gravelly silty CLAY			Date of test	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			12/02/2024	

UKAS TESTING 4514

Test Number		1	
Length		203.0	mm
Diameter		102.1	mm
Bulk Density		2.03	Mg/m3
Moisture Content		22.8	%
Dry Density		1.65	Mg/m3
Rate of Strain		2.0	%/min
Cell Pressure		130	kPa
At failure	Axial Strain	19.2	%
	Deviator Stress, (σ1 - σ3)f	95	kPa
	Undrained Shear Strength, cu	47	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

Deviator Stress v Axial Strain



Remarks

0.5mm membrane, correction factor = 1.82

Approved: DanielKerfoot

Printed: 14/02/2024 10:39

Fig. No. 1

Sheet 2

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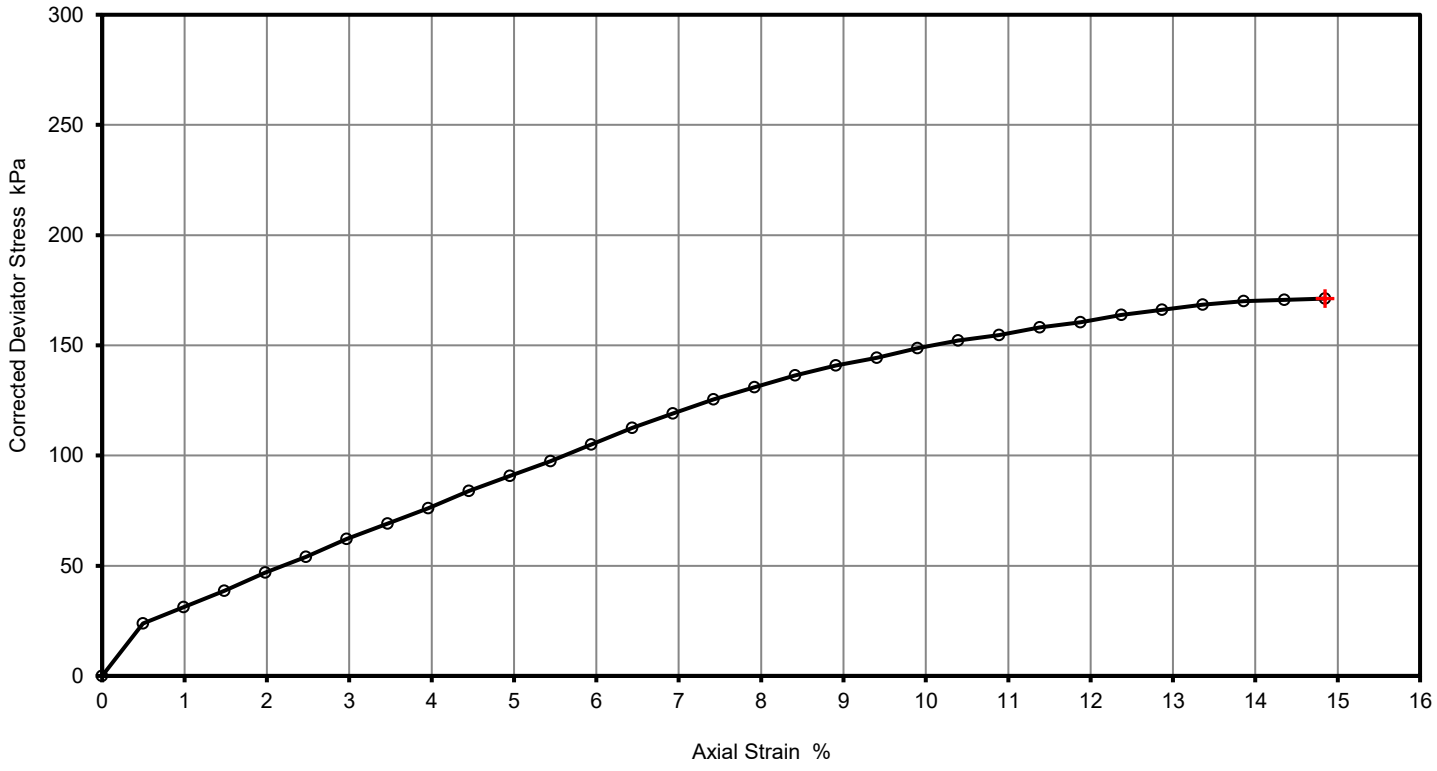
Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen

Job Ref	CCG-C-24-14516				
Borehole/Pit No.	BH203				
Site Name	CHEETHAM HILL		Sample No.	1	
Soil Description			Depth	9.50	
Specimen Reference		Specimen Depth m	Sample Type	U	
Specimen Description	Brown slightly sandy slightly gravelly silty CLAY		Date of test		
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen		13/02/2024		

UKAS TESTING 4514

Test Number		1	
Length		202.1	mm
Diameter		102.6	mm
Bulk Density		2.05	Mg/m3
Moisture Content		22.2	%
Dry Density		1.67	Mg/m3
Rate of Strain		2.0	%/min
Cell Pressure		190	kPa
At failure	Axial Strain	14.8	%
	Deviator Stress, (σ1 - σ3)f	171	kPa
	Undrained Shear Strength, cu	86	kPa ½(σ1 - σ3)f
	Mode of Failure	Plastic	

Deviator Stress v Axial Strain



Remarks

0.5mm membrane, correction factor = 1.47

Approved: DanielKerfoot

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Fig. No. 1

Sheet 3

Appendix G – Soil Screening Tables

Sutcliffe	SUTCLIFFE INVESTIGATIONS TEL: 0151 227 3155 FAX: 0151 227 3156	Human Health Assessment	
Job Name:	Cheetham Hill, Manchester	Job No.:	33716LG
Proposed Land Use:	Residential With Plant Uptake	S.O.M.:	2.5

Above Threshold:			Sample ID:	WS101	WS102	WS103	WS104	WS105	WS106	WS107	WS108	WS109	WS110	WS110	WS111	WS112	WS113	WS114	WS114	WS115	WS115	WS116
Below Limit of Detection:	<0.01		Depth Top (m bgl):	0.40	0.20	0.00	0.00	0.40	0.40	0.00	0.00	0.40	0.30	1.00	0.30	0.30	0.50	0.30	0.60	0.20	0.80	0.00
Not Tested:	n/t		Depth Base (m bgl):	1.00	0.60	0.40	0.40	0.80	0.80	0.40	0.40	1.00	0.60	1.60	0.60	0.60	1.00	0.60	0.90	0.75	1.20	0.20
No Asbestos Detected:	NAD		Date Sampled:	30-Nov-23	30-Nov-23	30-Nov-23	29-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23	29-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	29-Nov-23	29-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23

	Contaminant	Units	Threshold Source	Threshold Value	WS101	WS102	WS103	WS104	WS105	WS106	WS107	WS108	WS109	WS110	WS110	WS111	WS112	WS113	WS114	WS114	WS115	WS115	WS116
Metals / Non-Metals / Other Suite	Arsenic (Total)	mg/kg	LQM S4UL	37	6	3	6	2	9	17	20	7	12	13	27	10	10	6	13	10	12	n/t	8
	Boron (Soluble)	mg/kg	LQM S4UL	290	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	n/t	<1.0
	Cadmium (Total)	mg/kg	LQM S4UL	11	0.8	1	1	<0.5	0.7	1	1.1	0.5	0.8	1.3	1.9	0.7	0.5	0.6	1.4	0.9	1.1	n/t	0.8
	Chromium III	mg/kg	LQM S4UL	910	22	25	21	11	15	23	23	17	16	22	37	29	19	23	19	17	31	n/t	20
	Chromium VI	mg/kg	LQM S4UL	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/t	<1
	Copper (Total)	mg/kg	LQM S4UL	2400	30	27	37	14	59	67	72	28	51	121	100	44	37	31	43	28	55	n/t	37
	Lead (Total)	mg/kg	C4SL	200	87	43	62	29	69	161	196	57	118	138	790	109	88	79	76	65	154	n/t	88
	Mercury (Total)	mg/kg	LQM S4UL	40	0.4	<0.17	0.61	<0.17	1.6	1.43	1.15	<0.17	0.83	0.8	0.69	1.41	0.48	0.43	<0.17	<0.17	1.8	n/t	<0.17
	Nickel (Total)	mg/kg	LQM S4UL	180	16	30	19	11	17	20	20	14	19	20	31	27	21	24	18	14	24	n/t	20
	Selenium (Total)	mg/kg	LQM S4UL	250	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/t	<1
	Zinc (Total)	mg/kg	LQM S4UL	3700	92	59	160	26	60	83	214	62	81	119	223	124	61	67	80	65	133	n/t	85
	Cyanide (Total)	mg/kg	ATKINS	34	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/t	<1
	Phenols (Total)	mg/kg	LQM S4UL	550	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	n/t	<0.2
	Organic matter	%	LQM S4UL	N/a	3.5	8.2	4.3	1.3	5.2	4.2	5.1	4.9	4.6	5.4	6.5	3.9	4	2	4.9	5.9	5.7	n/t	7.2
	Sulphate (Acid Soluble)	mg/kg	LQM S4UL	N/a	370	<200	1600	210	650	620	640	440	480	430	710	2400	480	660	600	500	920	n/t	660
	Sulphate as Water Soluble	g/l	LQM S4UL	N/a	<0.01	0.01	0.05	<0.01	0.06	0.05	0.02	0.03	<0.01	<0.01	0.02	0.08	0.03	0.04	0.04	<0.01	0.04	n/t	<0.01
	Sulphide	mg/kg	LQM S4UL	N/a	52	110	70	9	11	19	53	48	33	<5	<5	59	61	73	<5	<5	80	n/t	110
	pH	pH units	LQM S4UL	N/a	8.35	7.63	8.59	6.94	8.09	8.47	8.08	7.68	7.94	7.76	7.84	8.49	8.16	7.92	7.54	7.72	7.14	7.73	6.67
	Sulphur (Elemental)	mg/kg	LQM S4UL	N/a	38	<5	10	<5	<5	<5	<5	<5	<5	<5	10	<5	<5	11	<5	<5	<5	n/t	<5
Asbestos Suite	Asbestos in soil	N/a		N/a	NAD	Amosite & Chrysotile	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	n/t	NAD
	Asbestos Matrix (microscope)	N/a		N/a	-	Loose Fibres	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n/t	-
	ACM - Suitable for Water Absorption Test?	N/a		N/a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	n/t	N/A
	Asbestos in soil % composition	% w/w		0.001	n/t	<0.001	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
TPH Suite	TPH (Total)	mg/kg		N/a	72	36	199	37	183	137	262	66	59	165	406	220	65	158	22	34	99	n/t	53
	Total Aliphatic	mg/kg		N/a	26	10	105	10	30	54	110	20	5	28	38	48	19	23	6	9	24	n/t	13
	C5 to C6 aliphatic	mg/kg	LQM S4UL	78	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C6 to C8 aliphatic	mg/kg	LQM S4UL	230	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C8 to C10 aliphatic	mg/kg	LQM S4UL	65	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	C10 to C12 aliphatic	mg/kg	LQM S4UL	330	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	C12 to C16 aliphatic	mg/kg	LQM S4UL	2400	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	2	1	<1	<1	<1	<1	<1	<1	<1
	C16 to C35 aliphatic	mg/kg	LQM S4UL	92000	18	8	n/t	9	26	42	83	18	4	24	29	38	16	19	6	9	20	5	12
	C35 to C44 aliphatic	mg/kg	LQM S4UL	92000	7	2	20	<1	4	11	26	2	<1	4	7	9	2	3	<1	<1	3	n/t	1
	Total Aromatic	mg/kg		N/a	46	26	94	27	153	83	152	46	54	138	367	171	46	135	15	25	75	n/t	40
	C5 to C7 aromatic (Benzene)	mg/kg	LQM S4UL	140	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C7 to C8 aromatic (Toluene)	mg/kg	LQM S4UL	290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C8 to C10 aromatic	mg/kg	LQM S4UL	83	<1	<1	<10	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	5	<3	<3	<3	<1	<3
	C10 to C12 aromatic	mg/kg	LQM S4UL	180	<1	<1	<10	<1	<1	<1	2	<1	<1	<1	2	1	<1	3	<1	<1	<1	<1	<1
	C12 to C16 aromatic	mg/kg	LQM S4UL	330	2	2	<10	<1	8	5	8	2	3	9	14	7	2	6	<1	<1	3	<1	3
	C16 to C21 aromatic	mg/kg	LQM S4UL	540	7	6	23	6	35	19	29	10	11	29	74	32	7	24	4	5	12	3	8
	C21 to C35 aromatic	mg/kg	LQM S4UL	1500	30	17	60	22	107	54	99	32	41	96	269	125	36	95	12	20	58	10	30
	C35 to C44 aromatic	mg/kg	LQM S4UL	1500	8	1	12	<1	3	5	14	1	<1	3	7	5	<1	3	<1	<1	2	n/t	<1
	Aliphatic + Aromatic EC >44-70	mg/kg	LQM S4UL	N/a	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
BTEX Suite	benzene	mg/kg	LQM S4UL	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	toluene	mg/kg	LQM S4UL	290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	ethylbenzene	mg/kg	LQM S4UL	110	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	M&P Xylene	mg/kg	LQM S4UL	130	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	O-Xylene	mg/kg	LQM S4UL	140	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH Suite	naphthalene	mg/kg	LQM S4UL	5.6	0.04	<0.03	0.07	<0.03	0.12	0.06	0.92	<0.03	0.04	0.06	0.29	0.5	<0.03	<0.03	<0.03	0.11	<0.03	n/t	<0.03
	acenaphthylene	mg/kg	LQM S4UL	420	<0.01	<0.01	0.03	<0.01	<0.01	0.02	0.08	<0.01	0.02	<0.01	0.15	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	n/t	<0.01
	acenaphthene	mg/kg	LQM S4UL	510	0.02	0.02	0.3	<0.01	0.22	0.23	2.41	0.04	0.09	0.32	1.01	0.89	0.03	0.07	0.03	0.05	0.03	n/t	0.04
	fluorene	mg/kg	LQM S4UL	400	0.01	0.01	0.17	<0.01	0.11	0.12	1.87	0.03	0.05	0.14	0.84	0.72	<0.01	0.04	<0.01	0.03	0.02	n/t	0.03
	phenanthrene	mg/kg	LQM S4UL	220	0.23	0.25	2.01	0.04	1.11	1.37	11.8	0.4	0.58	1.4	8.72	5.31	0.21	0.48	0.18	0.39	0.29	n/t	0.23
	anthracene	mg/kg	LQM S4UL	5400	0.05	0.06	0.46	<0.02	0.28	0.33	3.13	0.08	0.14	0.34	1.95	1.16	0.05	0.11	0.04	0.09	0.06	n/t	0.05
	fluoranthene	mg/kg	LQM S4UL	560	0.47	0.39	3.31	0.1	2.04	2.73	12.2	0.77	1.41	2.77	12.8	6.3	0.53	0.96	0.39	0.71	0.51	n/t	0.47
	pyrene	mg/kg	LQM S4UL	1200	0.45	0.33	3.1	0.1	1.71	2.3	10.2	0.67	1.27	2.23	11.8	5.49	0.52	0.84	0.35	0.62	0.47	n/t	0.45
	benzo(a)anthracene	mg/kg	LQM S4UL	11	0.23	0.15	1.53	0.06	0.96	1.21	4.68	0.34	0.65	1.25	5.15	2.6	0.31	0.46	0.18	0.32	0.22	n/t	0.24
	chrysene	mg/kg	LQM S4UL	22	0.27	0.15	1.63	0.08	1.04	1.23	4.47	0.4	0.72	1.29	5.32	2.71	0.37	0.53	0.22	0.35	0.26	n/t	0.31
	benzo(b)fluoranthene	mg/kg	LQM S4UL	3.3	0.31	0.15	1.73	0.07	1.05	1.24	3.75	0.39	0.69	1.41	4.66	2.44	0.4	0.54	0.21	0.32	0.24	n/t	0.31
	benzo(k)fluoranthene	mg/kg	LQM S4UL	93	0.11	<0.07	0.55	<0.07	0.43	0.47	1.28	0.18	0.29	0.58	1.89	0.97	0.18	0.22	0.09	0.15	0.12	n/t	0.14
	benzo(a)pyrene	mg/kg	LQM S4UL	2.7	0.21	0.1	1.35	0.06	0.86	1.05	3.23	0.31	0.56	1.12	4.07	2.09	0.33	0.43	0.17	0.27	0.19	n/t	0.26
	dibenzo(ah)anthracene	mg/kg	LQM S4UL	0.28	<0.04	<0.04	0.16	<0.04	0.1	0.12	0.36	<0.04	0.06	0.12	0.45	0.22	0.05	0.06	<0.04	<0.04	<0.04	n/t	<0.04
	benzo(ghi)perylene	mg/kg	LQM S4UL	340	0.16	0.06	0.92	<0.05	0.49	0.54	1.47	0.18	0.29	0.61	2	0.99	0.22	0.26	0.09	0.15	0.12	n/t	0.15
	indeno(123cd)pyrene	mg/kg	LQM S4UL	36	0.17	0.07	1	0.04	0.56	0.65	1.82	0.2	0.34	0.71	2.28	1.12	0.23	0.3	0.1	0.18	0.12	n/t	0.18

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	SUTCLIFFE INVESTIGATIONS TEL: 0151 227 3155 FAX: 0151 227 3156		**Human Health Assessment**								
	Job Name:	Cheetham Hill, Manchester		**Job No.:**	33716LG						
	Proposed Land Use:	Residential With Plant Uptake		**S.O.M.:**	2.5						
	Above Threshold:			**Sample ID:**	TP101	TP101	TP102	TP104	TP105	TP106	TP108
	Below Limit of Detection:	<0.01		**Depth Top (m bgl):**	0.00	0.30	0.20	2.00	1.00	0.30	0.30
	Not Tested:	n/t		**Depth Base (m bgl):**	0.30	0.80	0.50	2.50	1.50	0.60	0.75
	No Asbestos Detected:	NAD		**Date Sampled:**	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23
	Contaminant	**Units**	**Threshold Source**	**Threshold Value**	**TP101**	**TP101**	**TP102**	**TP104**	**TP105**	**TP106**	**TP108**
Metals / Non-Metals / Other Suite	Arsenic (Total)	mg/kg	LQM S4UL	37	7	6	4	4	12	7	8
	Boron (Soluble)	mg/kg	LQM S4UL	290	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
	Cadmium (Total)	mg/kg	LQM S4UL	11	1	1	0.5	1.1	1.2	0.7	1
	Chromium III	mg/kg	LQM S4UL	910	17	20	15	33	19	17	23
	Chromium VI	mg/kg	LQM S4UL	6	<1	<1	<1	<1	<1	<1	<1
	Copper (Total)	mg/kg	LQM S4UL	2400	38	32	19	45	49	31	36
	Lead (Total)	mg/kg	C4SL	200	106	106	28	56	108	107	92
	Mercury (Total)	mg/kg	LQM S4UL	40	0.53	0.54	0.54	0.22	0.43	0.24	0.36
	Nickel (Total)	mg/kg	LQM S4UL	180	17	17	14	30	18	16	19
	Selenium (Total)	mg/kg	LQM S4UL	250	<1	<1	<1	<1	<1	<1	<1
	Zinc (Total)	mg/kg	LQM S4UL	3700	92	123	96	52	86	69	115
	Cyanide (Total)	mg/kg	ATKINS	34	<1	<1	<1	<1	<1	<1	<1
	Phenols (Total)	mg/kg	LQM S4UL	550	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Organic matter	%	LQM S4UL	N/a	6.4	4	3.6	6.8	4.6	3.1	6.4
	Sulphate (Acid Soluble)	mg/kg	LQM S4UL	N/a	640	890	1400	340	480	810	720
	Sulphate as Water Soluble	g/l	LQM S4UL	N/a	0.02	0.03	0.04	0.03	0.01	0.01	0.03
	Sulphide	mg/kg	LQM S4UL	N/a	66	57	62	97	66	75	73
	pH	pH units	LQM S4UL	N/a	8.03	8.37	8.56	8.26	7.89	7.96	7.66
	Sulphur (Elemental)	mg/kg	LQM S4UL	N/a	50	12	8	150	17	<5	70
Asbestos Suite	Asbestos in soil	N/a		N/a	NAD	NAD	NAD	NAD	NAD	**Chrysotile**	NAD
	Asbestos Matrix (microscope)	N/a		N/a	-	-	-	-	-	Cement	-
	ACM - Suitable for Water Absorption Test?	N/a		N/a	N/A	N/A	N/A	N/A	N/A	No	N/A
	Asbestos in soil % composition	% w/w		0.001	n/t	n/t	n/t	n/t	n/t	0.032	n/t
TPH Suite	TPH (Total)	mg/kg		N/a	300	128	402	110	118	75	50
	Total Aliphatic	mg/kg		N/a	39	16	177	10	25	24	8
	C5 to C6 aliphatic	mg/kg	LQM S4UL	78	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C6 to C8 aliphatic	mg/kg	LQM S4UL	230	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C8 to C10 aliphatic	mg/kg	LQM S4UL	65	<1	<1	<1	<1	<1	<1	<1
	C10 to C12 aliphatic	mg/kg	LQM S4UL	330	<1	<1	<1	<1	<1	<1	<1
	C12 to C16 aliphatic	mg/kg	LQM S4UL	2400	2	<1	<1	<1	<1	<1	<1
	C16 to C35 aliphatic	mg/kg	LQM S4UL	92000	24	11	140	6	18	19	6
	C35 to C44 aliphatic	mg/kg	LQM S4UL	92000	14	5	37	4	6	5	2
	Total Aromatic	mg/kg		N/a	261	112	224	101	93	51	42
	C5 to C7 aromatic (Benzene)	mg/kg	LQM S4UL	140	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C7 to C8 aromatic (Toluene)	mg/kg	LQM S4UL	290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C8 to C10 aromatic	mg/kg	LQM S4UL	83	<1	<1	<1	<1	<1	<1	<1
	C10 to C12 aromatic	mg/kg	LQM S4UL	180	<1	<1	<1	4	<1	<1	<1
	C12 to C16 aromatic	mg/kg	LQM S4UL	330	12	5	6	11	3	3	2
	C16 to C21 aromatic	mg/kg	LQM S4UL	540	53	24	33	23	15	7	8
	C21 to C35 aromatic	mg/kg	LQM S4UL	1500	180	78	136	60	69	38	30
	C35 to C44 aromatic	mg/kg	LQM S4UL	1500	15	5	49	4	5	3	2
	Aliphatic + Aromatic EC >44-70	mg/kg	LQM S4UL	N/a	n/t	n/t	n/t	n/t	n/t	n/t	n/t
BTEX Suite	benzene	mg/kg	LQM S4UL	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	toluene	mg/kg	LQM S4UL	290	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	ethylbenzene	mg/kg	LQM S4UL	110	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	M&P Xylene	mg/kg	LQM S4UL	130	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	O-Xylene	mg/kg	LQM S4UL	140	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH Suite	naphthalene	mg/kg	LQM S4UL	5.6	0.22	0.06	0.17	0.38	0.03	<0.03	<0.03
	acenaphthylene	mg/kg	LQM S4UL	420	0.06	0.02	0.03	0.06	0.05	<0.01	0.02
	acenaphthene	mg/kg	LQM S4UL	510	0.53	0.08	0.22	0.89	0.12	0.02	0.08
	fluorene	mg/kg	LQM S4UL	400	0.41	0.05	0.24	0.49	0.07	0.01	0.07
	phenanthrene	mg/kg	LQM S4UL	220	4.92	0.74	2.32	1.97	0.86	0.23	0.9
	anthracene	mg/kg	LQM S4UL	5400	1.11	0.17	0.49	0.53	0.23	0.05	0.17
	fluoranthene	mg/kg	LQM S4UL	560	7.59	1.52	3.44	2.53	1.76	0.42	1.37
	pyrene	mg/kg	LQM S4UL	1200	6.99	1.49	3.16	2.63	1.58	0.4	1.34
	benzo(a)anthracene	mg/kg	LQM S4UL	11	3.39	0.81	1.48	1.18	0.79	0.22	0.63
	chrysene	mg/kg	LQM S4UL	22	3.6	0.92	1.49	1.27	0.91	0.25	0.72
	benzo(b)fluoranthene	mg/kg	LQM S4UL	3.3	4.15	1.13	1.6	1.3	1.14	0.3	0.74
	benzo(k)fluoranthene	mg/kg	LQM S4UL	93	1.44	0.36	0.56	0.42	0.34	0.09	0.27
	benzo(a)pyrene	mg/kg	LQM S4UL	2.7	3.26	0.78	1.19	1.01	0.74	0.2	0.51
	dibenzo(ah)anthracene	mg/kg	LQM S4UL	0.28	0.33	0.09	0.13	0.12	0.08	<0.04	0.06
	benzo(ghi)perylene	mg/kg	LQM S4UL	340	1.79	0.47	0.7	0.58	0.4	0.14	0.31
	indeno(123cd)pyrene	mg/kg	LQM S4UL	36	2	0.52	0.79	0.61	0.47	0.15	0.33

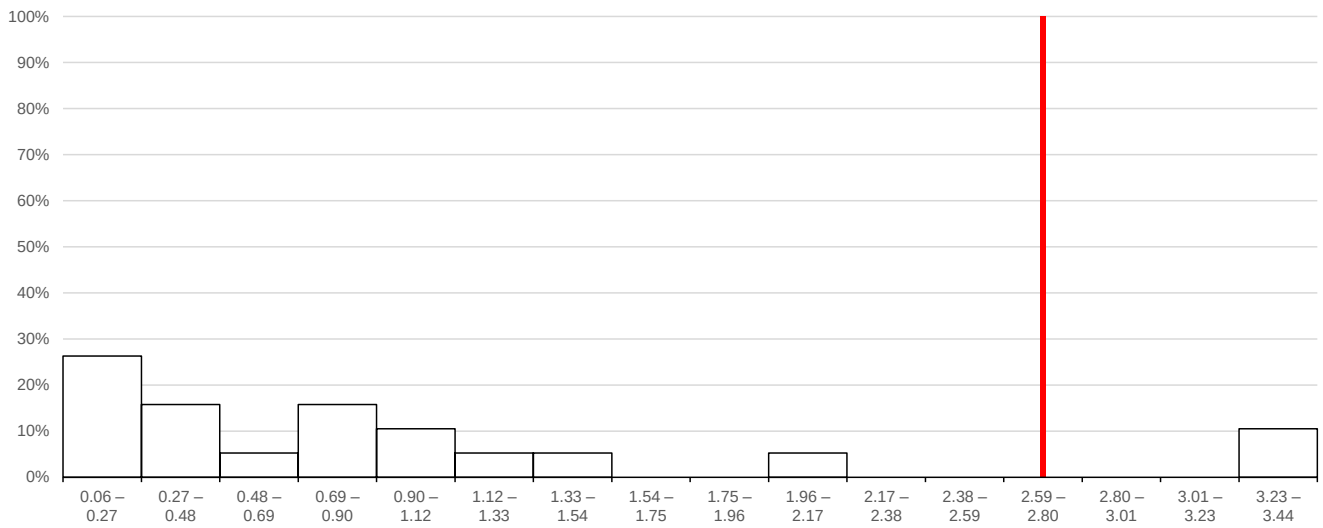
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SUTCLIFFE INVESTIGATIONS

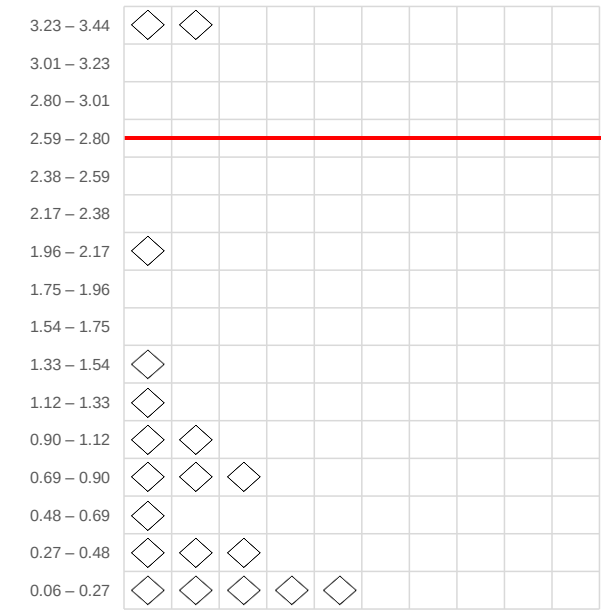
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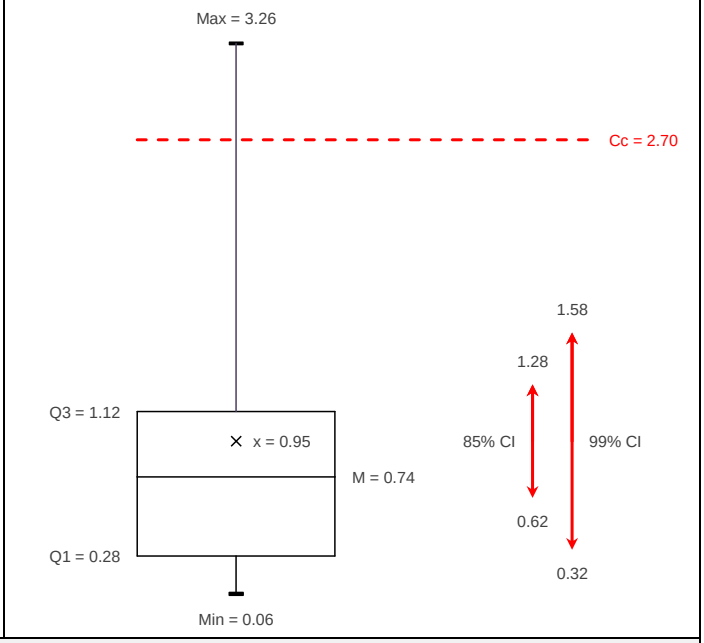
Statistical Analysis (2-Way Confidence Intervals)

Job Name:	Cheetham Hill, Manchester (Alderford Parade)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	19
Contaminant:	benzo(a)pyrene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	No Non-detects		99% CI



Maximum (Max):	3.26		**Critical Concentration (Cc):**	2.70	
Upper Quartile (Q3):	1.12		**Mean (x):**	0.95	
Median (M):	0.74		**Range (R):**	3.20	
Lower Quartile (Q1):	0.28		**Standard Deviation (s):**	0.96	
Minimum (Min):	0.06		**Interquartile Range (IQR):**	0.84	
85% CI	0.62	1.28	**99% CI**	0.32	1.58





Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for benzo(a)pyrene lies between 0.62mg/kg and 1.28mg/kg.

Sutcliffe are 99% confident that the true mean concentration (μ) for benzo(a)pyrene does not lie outside of 0.32mg/kg and 1.58mg/kg.

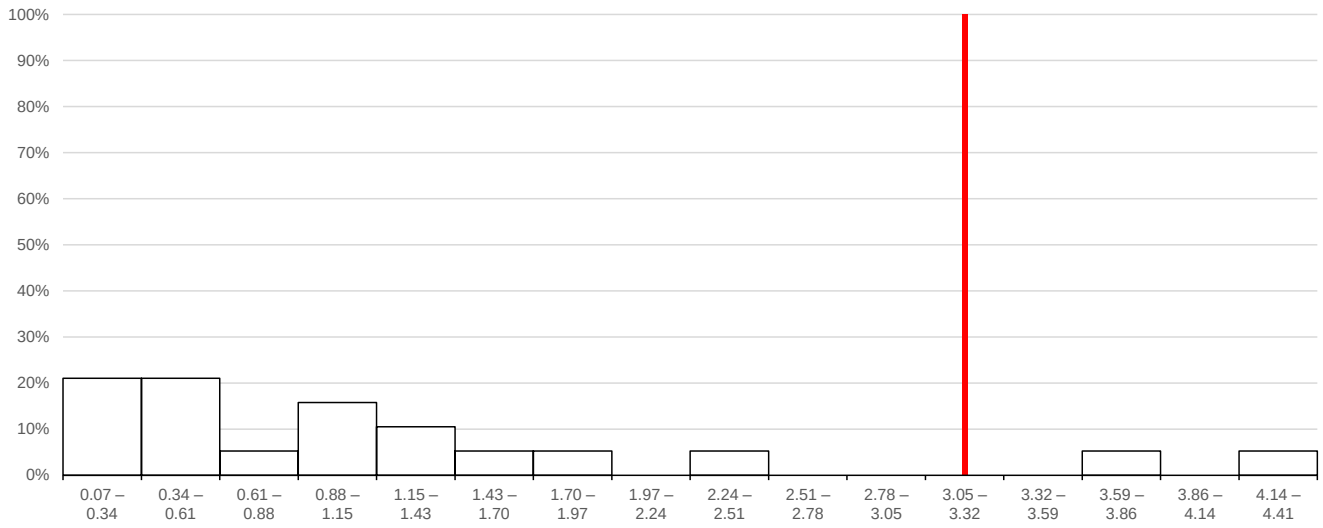
The Critical Concentration (Cc) for benzo(a)pyrene under a 2.5% S.O.M. Residential With Plant Uptake end use is 2.70mg/kg.

SUTCLIFFE INVESTIGATIONS

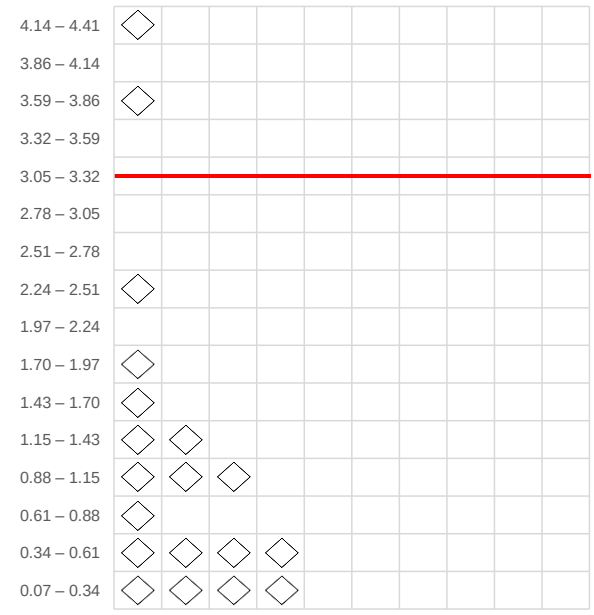
TEL: 0151 227 3155
FAX: 0151 227 3156

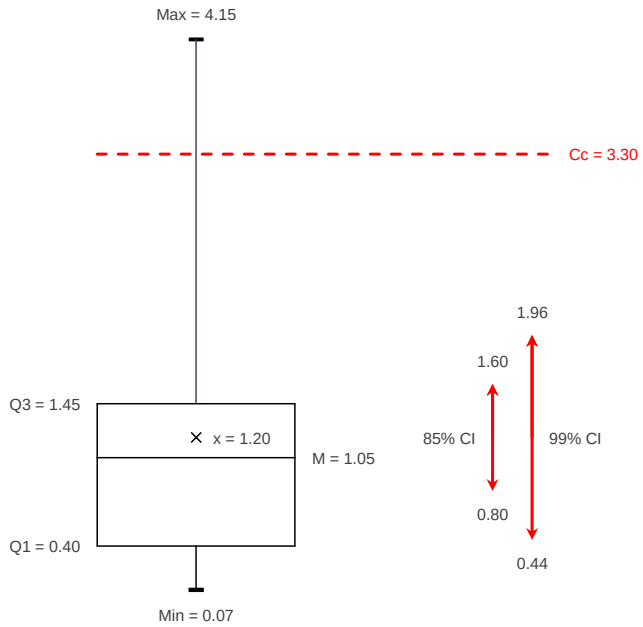
Statistical Analysis (2-Way Confidence Intervals)

Job Name:	Cheetham Hill, Manchester (Alderford Parade)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	19
Contaminant:	benzo(b)fluoranthene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	No Non-detects		99% CI



Maximum (Max):	4.15		**Critical Concentration (Cc):**	3.30	
Upper Quartile (Q3):	1.45		**Mean (x):**	1.20	
Median (M):	1.05		**Range (R):**	4.08	
Lower Quartile (Q1):	0.40		**Standard Deviation (s):**	1.15	
Minimum (Min):	0.07		**Interquartile Range (IQR):**	1.06	
85% CI	0.80	1.60	**99% CI**	0.44	1.96





Summary

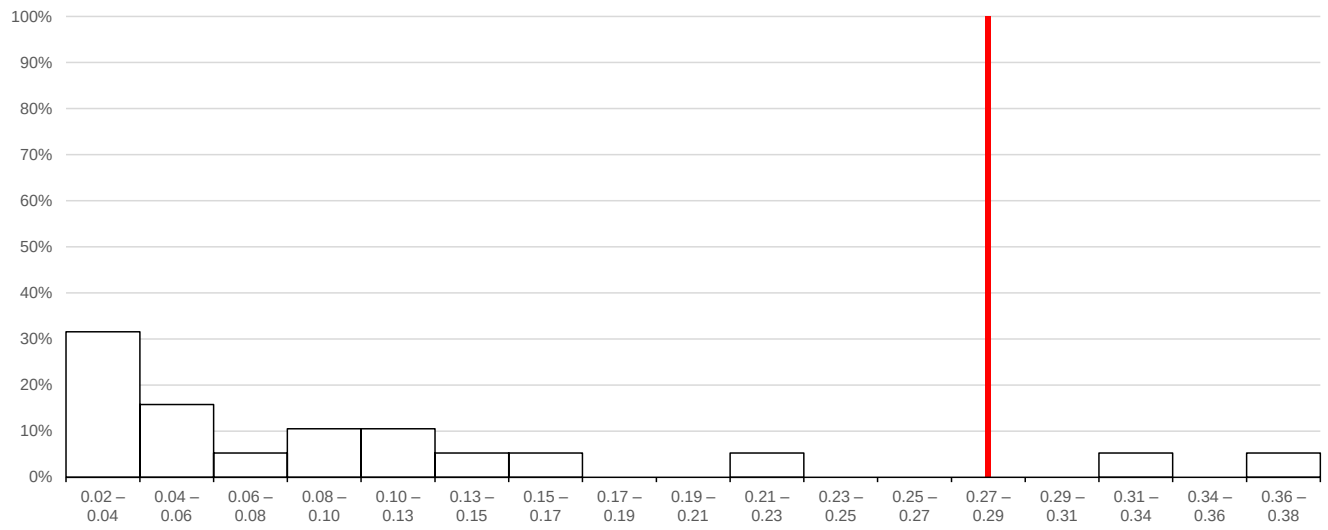
Sutcliffe are 85% confident that the true mean concentration (μ) for benzo(b)fluoranthene lies between 0.80mg/kg and 1.60mg/kg.

Sutcliffe are 99% confident that the true mean concentration (μ) for benzo(b)fluoranthene does not lie outside of 0.44mg/kg and 1.96mg/kg.

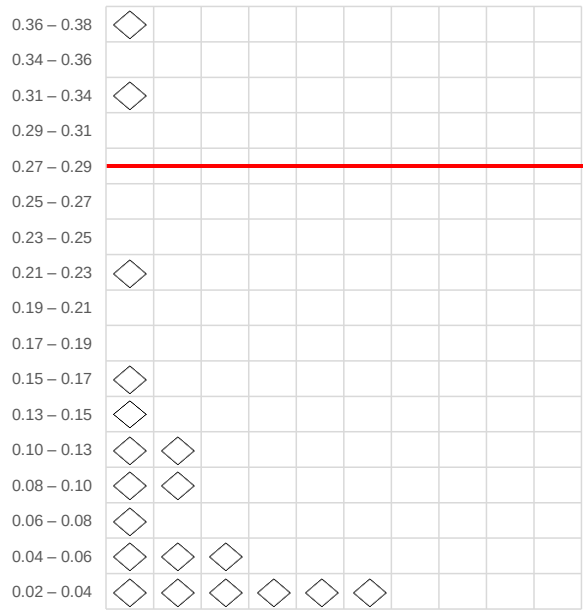
The Critical Concentration (Cc) for benzo(b)fluoranthene under a 2.5% S.O.M. Residential With Plant Uptake end use is 3.30mg/kg.

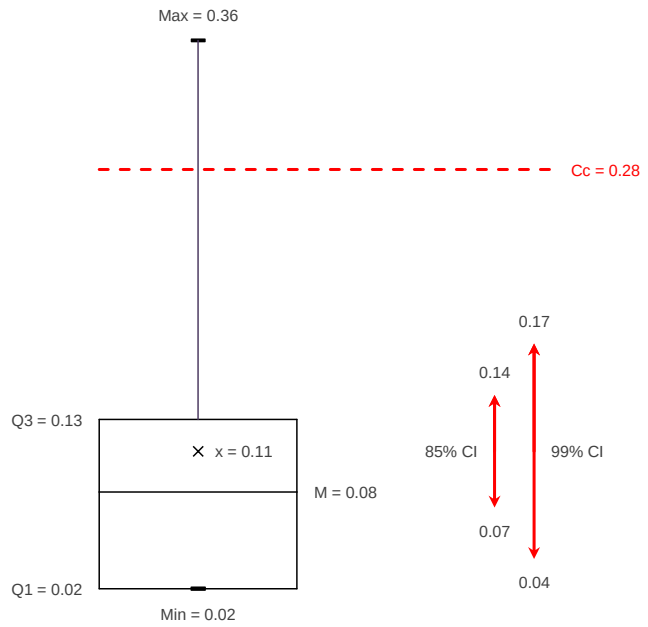
Sutcliffe	**SUTCLIFFE INVESTIGATIONS** TEL: 0151 227 3155 FAX: 0151 227 3156		**Statistical Analysis (2-Way Confidence Intervals)**

Job Name:	Cheetham Hill, Manchester (Alderford Parade)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	19
Contaminant:	dibenzo(ah)anthracene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	Detection Limit		99% CI



Maximum (Max):	0.36		**Critical Concentration (Cc):**	0.28	
Upper Quartile (Q3):	0.13		**Mean (x):**	0.11	
Median (M):	0.08		**Range (R):**	0.34	
Lower Quartile (Q1):	0.02		**Standard Deviation (s):**	0.10	
Minimum (Min):	0.02		**Interquartile Range (IQR):**	0.11	
85% CI	0.07	0.14	**99% CI**	0.04	0.17





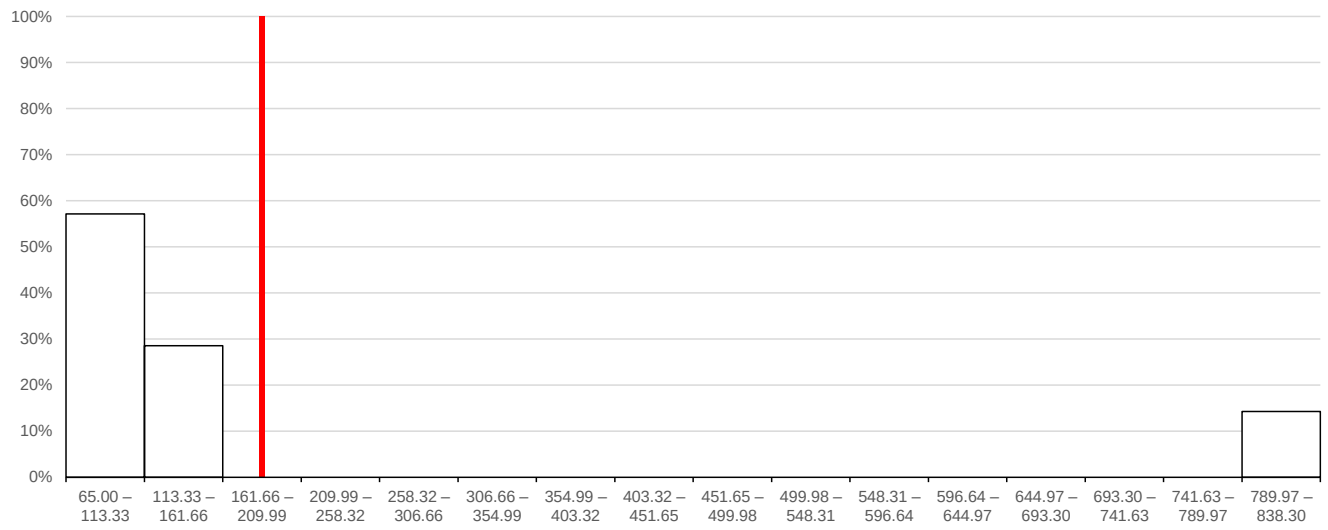
Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for dibenzo(ah)anthracene lies between 0.07mg/kg and 0.14mg/kg.

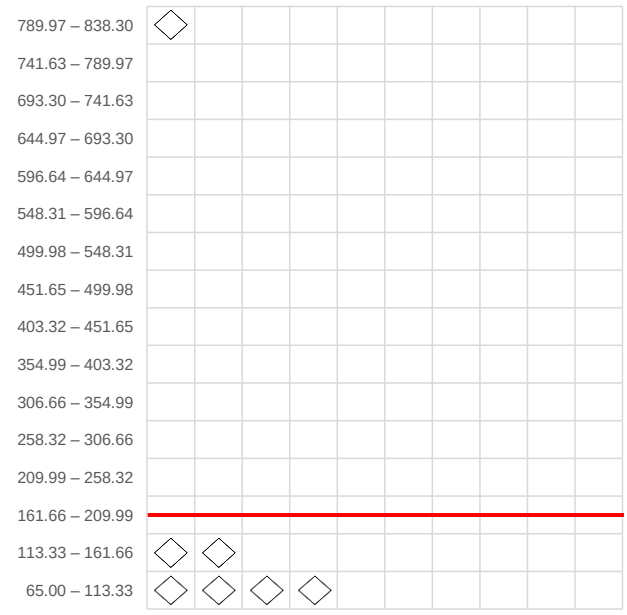
Sutcliffe are 99% confident that the true mean concentration (μ) for dibenzo(ah)anthracene does not lie outside of 0.04mg/kg and 0.17mg/kg.

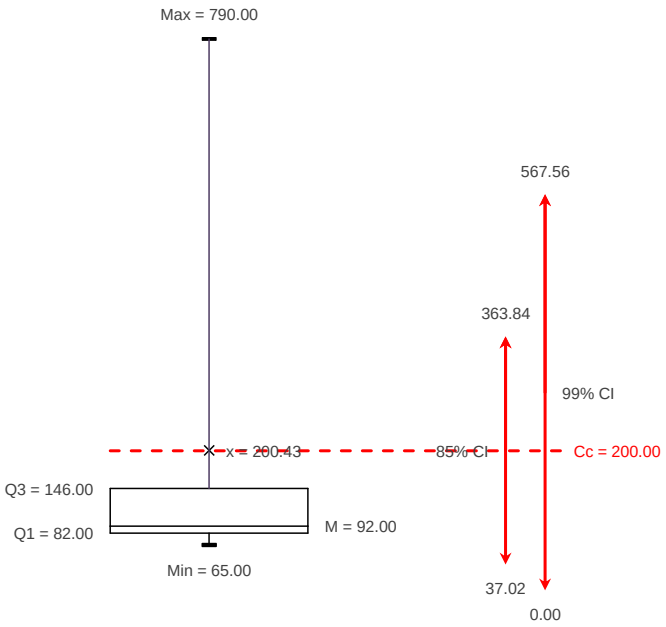
The Critical Concentration (Cc) for dibenzo(ah)anthracene under a 2.5% S.O.M. Residential With Plant Uptake end use is 0.28mg/kg.

Sutcliffe	**SUTCLIFFE INVESTIGATIONS** TEL: 0151 227 3155 FAX: 0151 227 3156		**Statistical Analysis (2-Way Confidence Intervals)**
Job Name:	Cheetham Hill, Manchester (Heatherdale Drive)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	7
Contaminant:	Lead (Total)	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	No Non-detects		99% CI



Maximum (Max):	790.00		**Critical Concentration (Cc):**	200.00	
Upper Quartile (Q3):	146.00		**Mean (x):**	200.43	
Median (M):	92.00		**Range (R):**	725.00	
Lower Quartile (Q1):	82.00		**Standard Deviation (s):**	262.00	
Minimum (Min):	65.00		**Interquartile Range (IQR):**	64.00	
85% CI	37.02	363.84	**99% CI**	0.00	567.56





Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for Lead (Total) lies between 37.02mg/kg and 363.84mg/kg.

Sutcliffe are 99% confident that the true mean concentration (μ) for Lead (Total) does not lie outside of 0.00mg/kg and 567.56mg/kg.

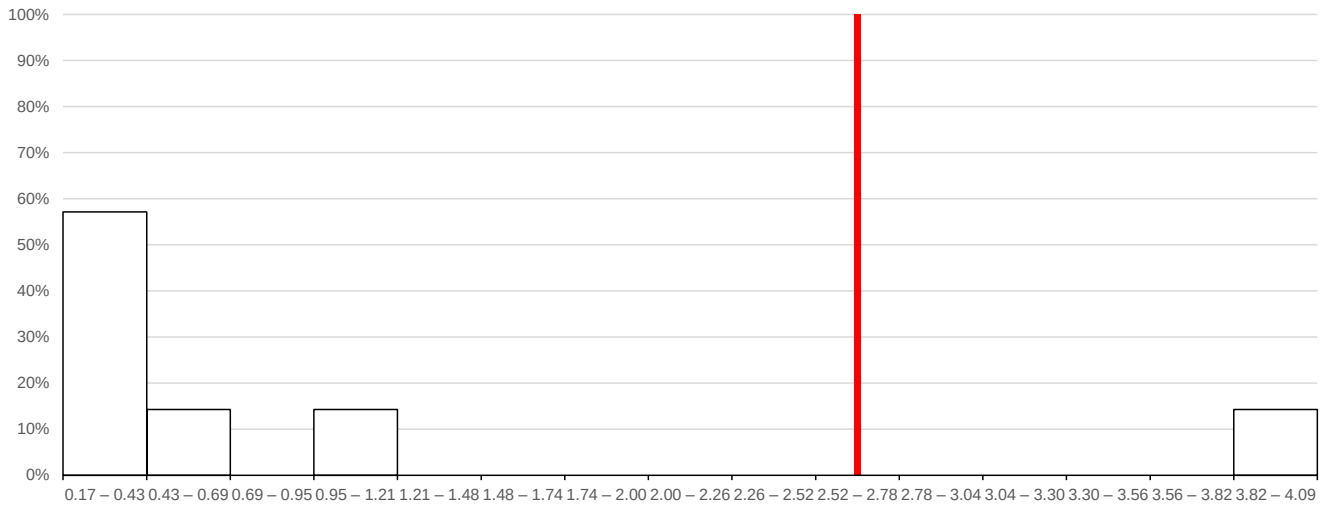
The Critical Concentration (Cc) for Lead (Total) under a 2.5% S.O.M. Residential With Plant Uptake end use is 200.00mg/kg.

SUTCLIFFE INVESTIGATIONS

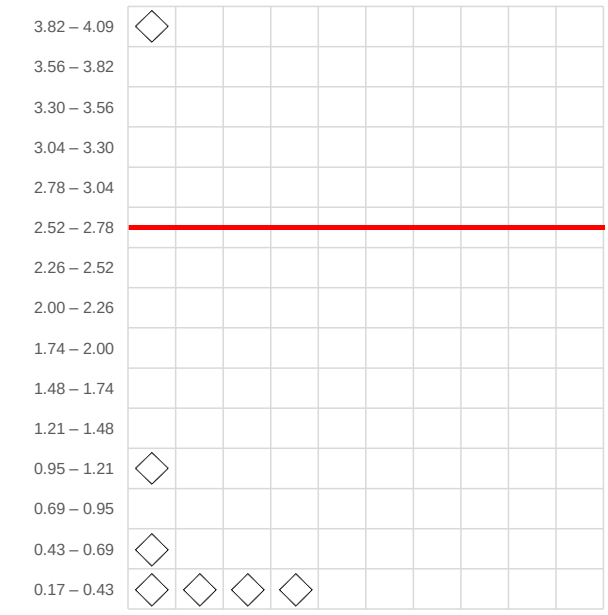
TEL: 0151 227 3155
FAX: 0151 227 3156

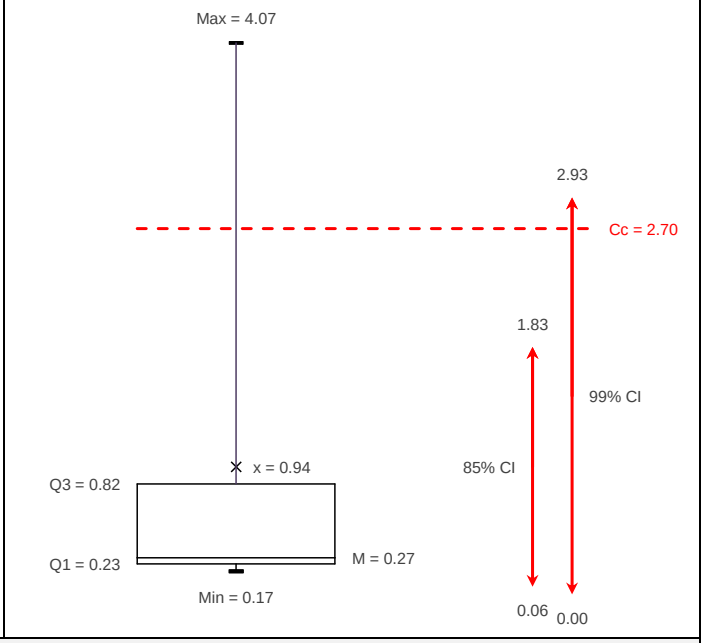
Statistical Analysis (2-Way Confidence Intervals)

Job Name:	Cheetham Hill, Manchester (Heatherdale Drive)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	7
Contaminant:	benzo(a)pyrene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	No Non-detects		99% CI



Maximum (Max):	4.07		**Critical Concentration (Cc):**	2.70	
Upper Quartile (Q3):	0.82		**Mean (x):**	0.94	
Median (M):	0.27		**Range (R):**	3.90	
Lower Quartile (Q1):	0.23		**Standard Deviation (s):**	1.42	
Minimum (Min):	0.17		**Interquartile Range (IQR):**	0.59	
85% CI	0.06	1.83	**99% CI**	0.00	2.93





Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for benzo(a)pyrene lies between 0.06mg/kg and 1.83mg/kg.

Sutcliffe are 99% confident that the true mean concentration (μ) for benzo(a)pyrene does not lie outside of 0.00mg/kg and 2.93mg/kg.

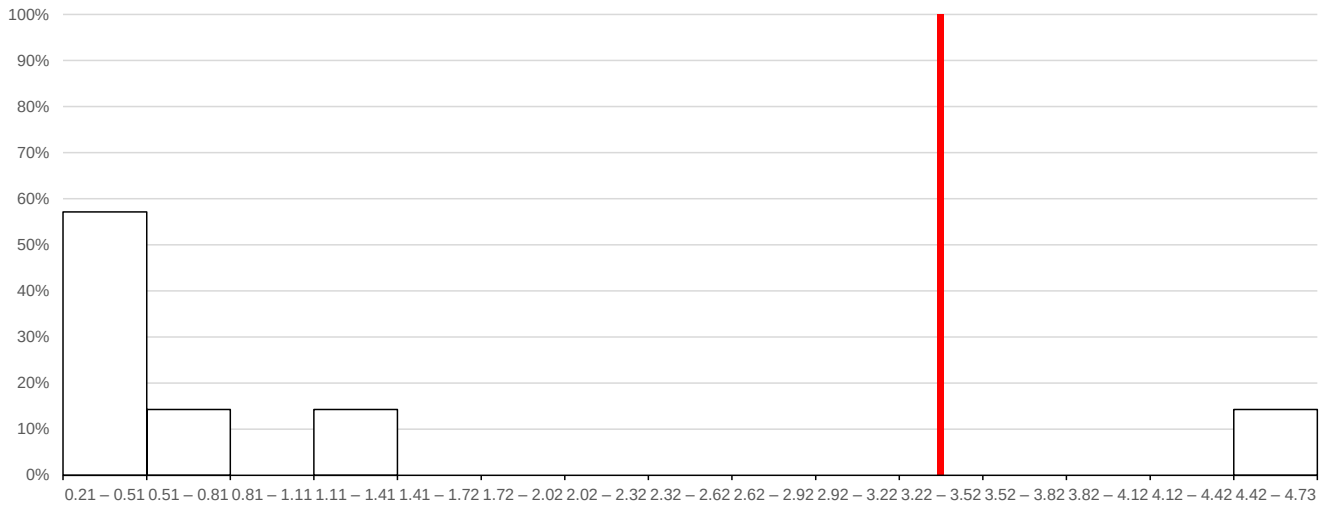
The Critical Concentration (Cc) for benzo(a)pyrene under a 2.5% S.O.M. Residential With Plant Uptake end use is 2.70mg/kg.

SUTCLIFFE INVESTIGATIONS

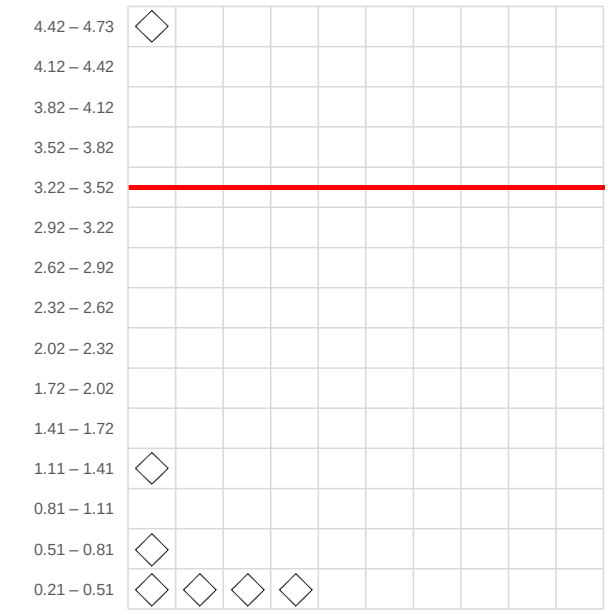
TEL: 0151 227 3155
FAX: 0151 227 3156

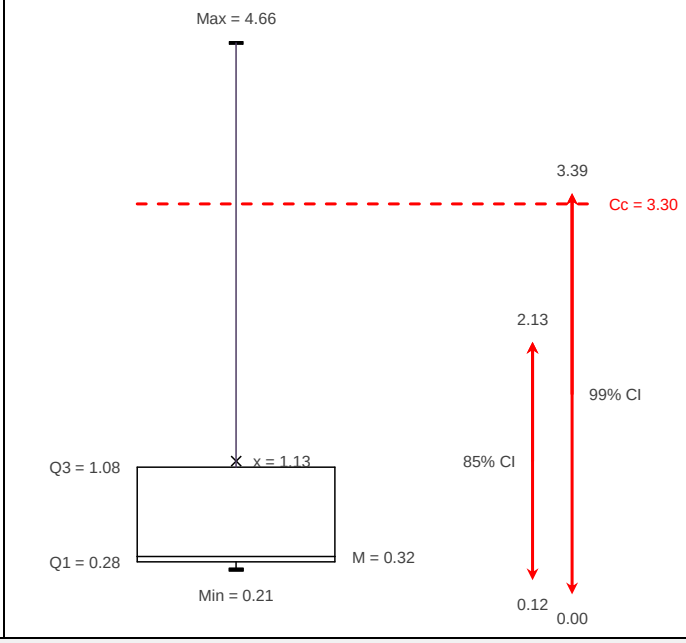
Statistical Analysis (2-Way Confidence Intervals)

Job Name:	Cheetham Hill, Manchester (Heatherdale Drive)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	7
Contaminant:	benzo(b)fluoranthene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	No Non-detects		99% CI



Maximum (Max):	4.66		**Critical Concentration (Cc):**	3.30	
Upper Quartile (Q3):	1.08		**Mean (x):**	1.13	
Median (M):	0.32		**Range (R):**	4.45	
Lower Quartile (Q1):	0.28		**Standard Deviation (s):**	1.62	
Minimum (Min):	0.21		**Interquartile Range (IQR):**	0.80	
85% CI	0.12	2.13	**99% CI**	0.00	3.39





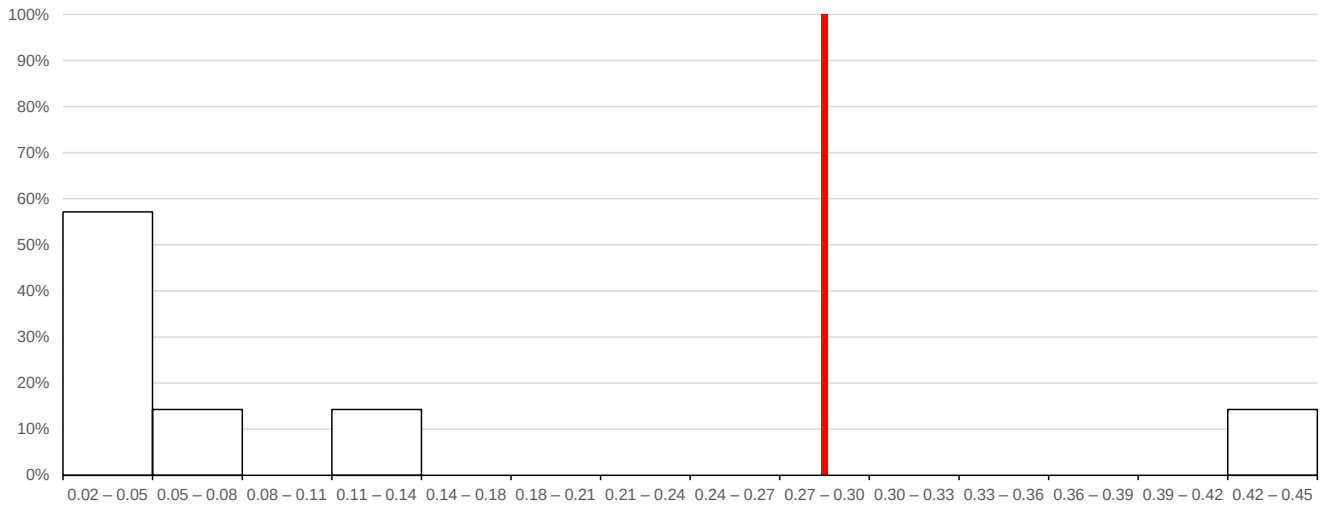
Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for benzo(b)fluoranthene lies between 0.12mg/kg and 2.13mg/kg.

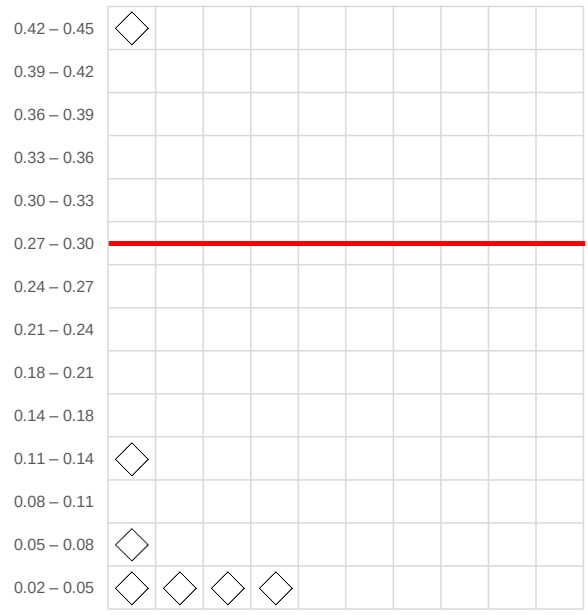
Sutcliffe are 99% confident that the true mean concentration (μ) for benzo(b)fluoranthene does not lie outside of 0.00mg/kg and 3.39mg/kg.

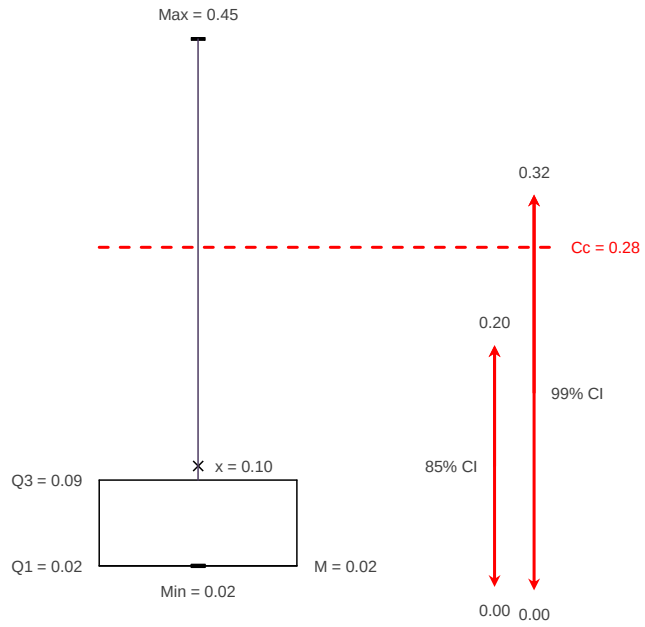
The Critical Concentration (Cc) for benzo(b)fluoranthene under a 2.5% S.O.M. Residential With Plant Uptake end use is 3.30mg/kg.

Sutcliffe	**SUTCLIFFE INVESTIGATIONS** TEL: 0151 227 3155 FAX: 0151 227 3156		**Statistical Analysis (2-Way Confidence Intervals)**
Job Name:	Cheetham Hill, Manchester (Heatherdale Drive)	**Job No.:**	33716LG
Proposed Land Use:	Residential With Plant Uptake	**No. of Samples:**	7
Contaminant:	dibenzo(ah)anthracene	**No. of Bin:**	15
Data Type:	Symmetric	**% Confidence Interval:**	85% CI
Non-detect Rule	Detection Limit		99% CI



Maximum (Max):	0.45		**Critical Concentration (Cc):**	0.28	
Upper Quartile (Q3):	0.09		**Mean (x):**	0.10	
Median (M):	0.02		**Range (R):**	0.43	
Lower Quartile (Q1):	0.02		**Standard Deviation (s):**	0.16	
Minimum (Min):	0.02		**Interquartile Range (IQR):**	0.07	
85% CI	0.00	0.20	**99% CI**	0.00	0.32





Summary

Sutcliffe are 85% confident that the true mean concentration (μ) for dibenzo(ah)anthracene lies between 0.00mg/kg and 0.20mg/kg.

Sutcliffe are 99% confident that the true mean concentration (μ) for dibenzo(ah)anthracene does not lie outside of 0.00mg/kg and 0.32mg/kg.

The Critical Concentration (Cc) for dibenzo(ah)anthracene under a 2.5% S.O.M. Residential With Plant Uptake end use is 0.28mg/kg.

	SUTCLIFFE INVESTIGATIONS		**Controlled Waters Assessment**							
	TEL: 0151 227 3155									
	FAX: 0151 227 3156									
	Job Name:	Cheetham Hill, Manchester	**Job No.:**	33716LG						
	Above EQS Threshold:				**Sample ID:**	TP101	WS112	WS107	TP108	WS110
	Above UK DWS Threshold:									
	Above all Thresholds:				**Depth Top:**	0.00	0.00	0.00	0.00	0.00
	Below Limit of Detection:	<0.01			**Depth Base:**	0.20	0.30	0.30	0.30	0.30
	Not tested:	n/t			**Date Sampled:**	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24
	Contaminant Leachate Prep (10:1 Std NRA)*	**Units**	**EQS Threshold**	**UK DWS Threshold**		TP101	WS112	WS107	TP108	WS110
Metals / Non-Metals / Other Suite	Arsenic (Soluble)*	µg/l	50	10		<1	<1	5	1	4
	Boron (Soluble)	µg/l	1000	1000		11	11	<10	11	12
	Cadmium (Soluble)	µg/l	0.45 - 1.5	5		<1	<1	<1	<1	<1
	Chromium Trivalent (Soluble)	µg/l	4.7	50		<0.05	<0.05	<0.05	<0.05	<0.05
	Chromium Hexavalent (Soluble)	µg/l	3.4	50		<0.05	<0.05	<0.05	<0.05	<0.05
	Copper (Soluble)	µg/l	1	2000		<4	8	20	9	7
	Lead (Soluble)	µg/l	14	10		<1	4	60	11	9
	Mercury (Soluble)	µg/l	0.07	1		<0.1	<0.1	<0.1	<0.1	<0.1
	Nickel (Soluble)	µg/l	34	20		<2	<2	<2	<2	<2
	Selenium (Soluble)*	µg/l	-	10		<1	<1	<1	<1	<1
	Sulphur (Free)	mg/l	-	-		<0.1	<0.1	<0.1	<0.1	<0.1
	Zinc (Soluble)	µg/l	10.9	5000		3	19	19	18	9
	Cyanide (Total)*	mg/l	1	50		<0.005	<0.005	<0.005	<0.005	<0.005
	Phenols (Total)	µg/l	7.7	-		<0.01	<0.01	<0.01	<0.01	<0.01
	Sulphate as SO_3	mg/l	400	250		5.36	<1.00	<1.00	1.41	1.89
	Sulphide as S	µg/l	0.25	-		<0.1	<0.1	<0.1	<0.1	<0.1
	pH	pH units	-	-		7.99	6.99	7.51	7.23	7.67
	TPH Total C6-C40 (leachable)		-	-		<80	<80	<80	<80	<80
PAH Suite	naphthalene*	µg/l	130	-		<0.01	<0.01	<0.01	<0.01	<0.01
	acenaphthylene*	µg/l	-	-		<0.01	<0.01	<0.01	<0.01	<0.01
	acenaphthene*	µg/l	-	-		0.01	<0.01	<0.01	<0.01	<0.01
	fluorene*	µg/l	-	-		0.02	<0.01	<0.01	<0.01	<0.01
	phenanthrene*	µg/l	-	-		0.12	<0.01	0.02	0.01	<0.01
	anthracene*	µg/l	0.1	-		0.04	<0.01	<0.01	<0.01	<0.01
	fluoranthene*	µg/l	0.12	-		0.19	<0.01	0.04	<0.01	<0.01
	pyrene*	µg/l	-	-		0.17	<0.01	0.03	<0.01	<0.01
	benzo(a)anthracene*	µg/l	-	-		0.15	<0.01	0.01	<0.01	<0.01
	chrysene*	µg/l	-	-		0.16	<0.01	0.02	<0.01	<0.01
	benzo(b)fluoranthene*	µg/l	0.017	-		0.14	<0.01	0.02	<0.01	<0.01
	benzo(k)fluoranthene*	µg/l	0.017	-		0.06	<0.01	<0.01	<0.01	<0.01
	benzo(a)pyrene*	µg/l	0.27	0.01		0.14	<0.01	0.02	<0.01	<0.01
	dibenzo(ah)anthracene*	µg/l	-	-		0.03	<0.01	<0.01	<0.01	<0.01
	benzo(ghi)perylene*	µg/l	0.0082	-		0.07	<0.01	0.01	<0.01	<0.01
	indeno(123cd)pyrene*	µg/l	0.002	-		0.08	<0.01	0.01	<0.01	<0.01

Appendix H – Waste Classification Report

Waste Classification Report

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

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

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

1VWSL-TP6AR-1NHQA

Job name

33716LG - Cheetham Hill, Manchester

Description/Comments

Project

33716LG

Site

Cheetham Hill, Manchester

Classified by

Name:
Daniel Evans
Date:
05 Feb 2024 11:01 GMT
Telephone:
0151 227 3155

Company:
Sutcliffe Projects Ltd
18-20 Harrington St
Liverpool
L2 9QA

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

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Purpose of classification

2 - Material Characterisation

Address of the waste

Alderford Parade / Heatherdale Drive, Cheetham Hill, Manchester **Post Code** M8 0TF

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of the site for Residential Housing

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

Waste created by excavation of foundations / service trenches

Description of the waste

MADE GROUND

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS101	0.4-1	Non Hazardous		3
2	WS102	0.2-0.6	Non Hazardous		6
3	WS103	0-0.4	Non Hazardous		9
4	WS104	0-0.4	Non Hazardous		12
5	WS105	0.4-0.8	Non Hazardous		15
6	WS106	0.4-0.8	Non Hazardous		18
7	WS107	0-0.4	Non Hazardous		21
8	WS108	0-0.4	Non Hazardous		24
9	WS109	0.4-1	Non Hazardous		27
10	WS110	0.3-0.6	Non Hazardous		30
11	WS110[2]	1-1.6	Non Hazardous		33
12	WS111	0.3-0.6	Non Hazardous		36
13	WS112	0.3-0.6	Non Hazardous		39
14	WS113	0.5-1	Non Hazardous		42
15	WS114	0.3-0.6	Non Hazardous		45
16	WS114[2]	0.6-0.9	Non Hazardous		48
17	WS115	0.2-0.75	Non Hazardous		51
18	WS116	0-0.2	Non Hazardous		54
19	TP101	0-0.3	Non Hazardous		57
20	TP101[2]	0.3-0.8	Non Hazardous		60
21	TP102	0.2-0.5	Non Hazardous		63
22	TP104	2-2.5	Non Hazardous		66
23	TP105	1-1.5	Non Hazardous		69
24	TP106	0.3-0.6	Non Hazardous		72
25	TP108	0.3-0.75	Non Hazardous		75

Related documents

#	Name	Description
1	Sutcliffe Suite 2 2023	waste stream template used to create this Job

Report

Created by: Daniel Evans

Created date: 05 Feb 2024 11:01 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	78
Appendix B: Rationale for selection of metal species	79
Appendix C: Version	80

Classification of sample: WS101

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

Sample details

Sample name:
WS101
Sample Depth:
0.4-1 m
Moisture content:
11.8%
(no correction)

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

Hazard properties

None identified

Determinands

Moisture content: 11.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
2	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				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		**<LOD**
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %		
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		**<LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.126	33.777 mg/kg	0.00338 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	87 mg/kg	1.56	135.704 mg/kg	0.0087 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.4 mg/kg	1.353	0.541 mg/kg	0.0000541 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.976	47.62 mg/kg	0.00476 %		
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		**<LOD**
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		92 mg/kg	2.774	255.221 mg/kg	0.0255 %		
12	TPH (C6 to C40) petroleum group			TPH		72 mg/kg		72 mg/kg	0.0072 %		
13	pH			PH		8.35 pH		8.35 pH	8.35 pH		
14	naphthalene	601-052-00-2	202-049-5	91-20-3		0.04 mg/kg		0.04 mg/kg	0.000004 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-917-1	208-96-8									
16		acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-469-6	83-32-9									
17		fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
			201-695-5	86-73-7									
18		phenanthrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			201-581-5	85-01-8									
19		anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			204-371-1	120-12-7									
20		fluoranthene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
			205-912-4	206-44-0									
21		pyrene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			204-927-3	129-00-0									
22		benzo[a]anthracene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-032-00-3	200-028-5	50-32-8									
27		indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29		benzo[ghi]perylene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-883-8	191-24-2									
30		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
33		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		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]									
34		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0547 %		

Key

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

Supplementary Hazardous Property Information

HP 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 Concentrations too low to be considered a flammable risk.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0072%)

Classification of sample: WS102

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

Sample details

Sample name:
WS102
Sample Depth:
0.2-0.6 m
Moisture content:
12%
(no correction)

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

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %		
2		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				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25	mg/kg	1.462	36.539	mg/kg	0.00365 %		
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27	mg/kg	1.126	30.399	mg/kg	0.00304 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	43	mg/kg	1.56	67.072	mg/kg	0.0043 %		
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<**LOD**
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30	mg/kg	2.976	89.288	mg/kg	0.00893 %		
10		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		59	mg/kg	2.774	163.675	mg/kg	0.0164 %		
12		TPH (C6 to C40) petroleum group			TPH		36	mg/kg		36	mg/kg	0.0036 %		
13		pH			PH		7.63	pH		7.63	pH	7.63 pH		
14		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-917-1	208-96-8									
16		acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %		
			201-469-6	83-32-9									
17		fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
			201-695-5	86-73-7									
18		phenanthrene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			201-581-5	85-01-8									
19		anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			204-371-1	120-12-7									
20		fluoranthene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			205-912-4	206-44-0									
21		pyrene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			204-927-3	129-00-0									
22		benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
27		indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
29		benzo[ghi]perylene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-883-8	191-24-2									
30		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
32		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
33		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		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]									
34		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0413 %		

Key

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

Supplementary Hazardous Property Information

HP 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 Concentrations too low to be considered a flammable risk.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0036%)

Classification of sample: WS103

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

Sample details

Sample name:
WS103
Sample Depth:
0-0.4 m
Moisture content:
17.4%
(no correction)

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

Hazard properties

None identified

Determinands

Moisture content: 17.4% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
2	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				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		**<LOD**
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		**<LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.126	41.658 mg/kg	0.00417 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	62 mg/kg	1.56	96.709 mg/kg	0.0062 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.61 mg/kg	1.353	0.826 mg/kg	0.0000826 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.976	56.549 mg/kg	0.00565 %		
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		**<LOD**
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		160 mg/kg	2.774	443.863 mg/kg	0.0444 %		
12	TPH (C6 to C40) petroleum group			TPH		199 mg/kg		199 mg/kg	0.0199 %		
13	pH			PH		8.59 pH		8.59 pH	8.59 pH		
14	naphthalene	601-052-00-2	202-049-5	91-20-3		0.07 mg/kg		0.07 mg/kg	0.000007 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		acenaphthylene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
			205-917-1	208-96-8									
16		acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
17		fluorene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			201-695-5	86-73-7									
18		phenanthrene				2.01	mg/kg		2.01	mg/kg	0.000201 %		
			201-581-5	85-01-8									
19		anthracene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
			204-371-1	120-12-7									
20		fluoranthene				3.31	mg/kg		3.31	mg/kg	0.000331 %		
			205-912-4	206-44-0									
21		pyrene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
			204-927-3	129-00-0									
22		benzo[a]anthracene				1.53	mg/kg		1.53	mg/kg	0.000153 %		
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				1.63	mg/kg		1.63	mg/kg	0.000163 %		
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				1.73	mg/kg		1.73	mg/kg	0.000173 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				1.35	mg/kg		1.35	mg/kg	0.000135 %		
		601-032-00-3	200-028-5	50-32-8									
27		indeno[123-cd]pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-041-00-2	200-181-8	53-70-3									
29		benzo[ghi]perylene				0.92	mg/kg		0.92	mg/kg	0.000092 %		
			205-883-8	191-24-2									
30		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
33		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		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]									
34		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0869 %		

Key

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

Supplementary Hazardous Property Information

HP 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 Concentrations too low to be considered a flammable risk.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0199%)

Classification of sample: WS104

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

Sample details

Sample name:
WS104
Sample Depth:
0-0.4 m
Moisture content:
16.9%
(no correction)

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

Hazard properties

None identified

Determinands

Moisture content: 16.9% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %		
2		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				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
3		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<**LOD**
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	16.077	mg/kg	0.00161 %		
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.126	15.762	mg/kg	0.00158 %		
7		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	29	mg/kg	1.56	45.235	mg/kg	0.0029 %		
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<**LOD**
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11	mg/kg	2.976	32.739	mg/kg	0.00327 %		
10		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
11		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		26	mg/kg	2.774	72.128	mg/kg	0.00721 %		
12		TPH (C6 to C40) petroleum group			TPH		37	mg/kg		37	mg/kg	0.0037 %		
13		pH			PH		6.94	pH		6.94	pH	6.94 pH		
14		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		acenaphthylene											
			205-917-1	208-96-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16		acenaphthene											
			201-469-6	83-32-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17		fluorene											
			201-695-5	86-73-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		phenanthrene											
			201-581-5	85-01-8		0.04	mg/kg		0.04	mg/kg	0.000004 %		
19		anthracene											
			204-371-1	120-12-7		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
20		fluoranthene											
			205-912-4	206-44-0		0.1	mg/kg		0.1	mg/kg	0.00001 %		
21		pyrene											
			204-927-3	129-00-0		0.1	mg/kg		0.1	mg/kg	0.00001 %		
22		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		0.06	mg/kg		0.06	mg/kg	0.000006 %		
23		chrysene											
		601-048-00-0	205-923-4	218-01-9		0.08	mg/kg		0.08	mg/kg	0.000008 %		
24		benzo[b]fluoranthene											
		601-034-00-4	205-911-9	205-99-2		0.07	mg/kg		0.07	mg/kg	0.000007 %		
25		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
26		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		0.06	mg/kg		0.06	mg/kg	0.000006 %		
27		indeno[123-cd]pyrene											
			205-893-2	193-39-5		0.04	mg/kg		0.04	mg/kg	0.000004 %		
28		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
29		benzo[ghi]perylene											
			205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzene											
		601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
31		toluene											
		601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		ethylbenzene											
		601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
33		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]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
										Total:	0.0214 %		

Key

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

Supplementary Hazardous Property Information

HP 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 Concentrations too low to be considered a flammable risk.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0037%)

Classification of sample: WS105

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

Sample details

Sample name:
WS105
Sample Depth:
0.4-0.8 m
Moisture content:
15.8%
(no correction)

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

Hazard properties

None identified

Determinands

Moisture content: 15.8% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	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				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		**<LOD**
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %		
4	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 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		**<LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		59 mg/kg	1.126	66.427 mg/kg	0.00664 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	69 mg/kg	1.56	107.627 mg/kg	0.0069 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.6 mg/kg	1.353	2.166 mg/kg	0.000217 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	50.597 mg/kg	0.00506 %		
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		**<LOD**
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		60 mg/kg	2.774	166.449 mg/kg	0.0166 %		
12	TPH (C6 to C40) petroleum group			TPH		183 mg/kg		183 mg/kg	0.0183 %		
13	pH			PH		8.09 pH		8.09 pH	8.09 pH		
14	naphthalene	601-052-00-2	202-049-5	91-20-3		0.12 mg/kg		0.12 mg/kg	0.000012 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-917-1	208-96-8									
16		acenaphthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			201-469-6	83-32-9									
17		fluorene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-695-5	86-73-7									
18		phenanthrene				1.11	mg/kg		1.11	mg/kg	0.000111 %		
			201-581-5	85-01-8									
19		anthracene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			204-371-1	120-12-7									
20		fluoranthene				2.04	mg/kg		2.04	mg/kg	0.000204 %		
			205-912-4	206-44-0									
21		pyrene				1.71	mg/kg		1.71	mg/kg	0.000171 %		
			204-927-3	129-00-0									
22		benzo[a]anthracene				0.96	mg/kg		0.96	mg/kg	0.000096 %		
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				1.04	mg/kg		1.04	mg/kg	0.000104 %		
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				1.05	mg/kg		1.05	mg/kg	0.000105 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
		601-032-00-3	200-028-5	50-32-8									
27		indeno[123-cd]pyrene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
29		benzo[ghi]perylene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
			205-883-8	191-24-2									
30		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
33		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		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]									
34		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.059 %		

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Force this Hazardous property to non hazardous because Concentrations too low to be considered a flammable risk.