Table 2 - Classification of probability

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Table 3 - Comparison of consequence against probability

		Consequence			
		Severe	*Medium*	*Mild*	*Minor*
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table 4 - Description of the classified risks and likely action required

Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate Risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

Table 5 - Response action likely to be required in relation to estimated risk

KEY

- Mitigation and remedial measures required
- Mitigation and remedial measures likely
- Remedial measures unlikely
- Remedial measures not required

RISK ASSESSMENT FOR THE WATER ENVIRONMENT

The risk assessment has been developed to provide a greater level of standardisation. It includes relevant elements from TAG (Transport Analysis Guidance) Table 1 relating to the features described as river, floodplain, groundwater and stillwaters, including their attributes/services and selected/modified indicators of quality and possible measures. Two additional columns have been added for 'grading' and 'importance level'. These columns expand on the limited number of examples provided in TAG Table 2. Table 1 has been developed with reference to TAG, Highways Agency's 'New Approach to Appraisal' (NATA), the Water Framework Directive and other sources as referenced in the table.

Table 1 here relies on easily available data to avoid unnecessary data collection. Should inadequate data be available a 'worst case' should be assumed. The table is designed to act as a guide to determining importance and to raise the level of compatibility in predicting the significance of impacts on the water environment.

Once Table 1 has been used to determine the importance of the environmental attributes that may be affected by a particular development project, Tables 3 and 4 of TAG Unit 3.3.11 can be used to estimate the significance of potential impacts. These tables are reproduced here as Tables 2 and 3 respectively. Table 2 provides a methodology for determining impact magnitude. Table 3 is a matrix that allows the significance of the impact to be calculated based on the impact magnitude and the importance of the attribute. The significance of impacts can range from 'insignificant' to 'very significant'.

Table 1: Water features, their attributes, indicators of quality, grading and importance (adapted from Table 1 of TAG unit 3.3.11)

Feature	Attribute / Service	Indicator of Quality	Measure	Grading	Importance Level
River	Water Supply	Chemical water quality	Environment Agency's Chemical General Quality Assessment (GQA)	A B C-D E-F	Very High High Medium Low
		Industrial / agricultural abstractions	Location and volume of abstraction	All abstractions within 2km downstream: >1000m3/day 500-1000m3/day 50-499m3/day <50m3/day	 Very High High Medium Low
		Drinking water supply	Classification defined within The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations 1996. No 3001[2]	Classification: DW1 or DW2 within critical travel time for pollution downstream DW3 within critical time downstream Not designated	 Very High High Medium - Low
	Biodiversity[3]	Biological Water Quality	Environment Agency's Biological GQA[1]	A B C-D E-F	Very High High Medium Low
		Fisheries Quality	Fisheries status as defined within the Freshwater Fish Directive 78/659/EEC	Designated salmonid fishery Designated cyprinid fishery Undesignated fishery Not a fishery	Very High High Medium Low

Feature	Attribute / Service	Indicator of Quality	Measure	Grading	Importance Level
River	Transport and dilution of waste product	Surface Water / effluent discharges	Type of discharges with reference to the EC Dangerous Substances Directive (76/464/EEC and Daughter Directives)	All discharges within 2km up or downstream: List I List II Other discharge / no discharge	 Very High - High Medium Medium - Low
	Recreation	Riverside access	Presence / absence of route and importance	National trail / cycleway Regional trail Definitive footpath / bridleway No route	Very High High Medium Low
		Presence of clubs/ recreation use	Presence / absence	Club recreation use present No club / recreation use	Very High - High - Medium Low
	Conveyance of flow and material	Presence of water courses	Size of watercourses[5]	Main River > 10m wide Main River < 10m wide Ordinary watercourse >5m wide Other	Very High High Medium Low
Floodplain	Flood defence	Importance in relation to flood defence	Status of flood plain area	Designated washland Active floodplain Existing defended area Does not flood	Very High High Medium Low
			Return period	> (ie more frequent then) 1 in 25 years < 1 in 25 years <1 in 100 years (urban) <1 in 50 years <1 in 200 years	Very High High Medium Medium Low
Groundwater	Water supply	Industrial / agricultural abstractions	Location and volume of abstraction	All abstraction points within zone of influence of development: >1000m3/day >500-1000m3/day 50-499m3/day <50m3/day	 Very High High Medium Low
		Drinking water supply	Presence of potable public supply or private water supply within zone of influence of development	Public supply Private water supply >10m3/day or serves >50 people[6] Other private water supply No supply	Very High High Medium Low
		Groundwater vulnerability	Source protection status	Within zone 1,2 or 3 of a source protection zone Not within a source protection zone	Very High High Medium Low
			Classification of aquifer vulnerability	Major aquifer with H soils or I soils or U soils. Minor aquifer with H soils or U soils Major aquifer with L soils. Minor aquifer with L soils or non aquifer	Very High High Medium Low
	Conveyance of flood flows	Acceptance potential of flood flows	Soil type / groundwater table levels[8]	Gravels with low water table (>1m below infiltration point) Sands with low water table All soil types with high water table Clay	Very High High Medium Low
Stillwaters (lakes and ponds)	Biodiversity[3]	Biological water quality	Classification system to be developed under the Water Framework Directive for ecological status / potential		
		Fisheries quality	Fisheries status as defined within the Freshwater Fish Directive 78/659/EEC	Designated salmonid fishery Designated cyprinid fishery Undesignated fishery Not a fishery	Very High-high High - medium Medium - low Low
	Water supply	Use for abstraction	Presence / absence	Abstraction No abstraction	Very High - High – Medium[9] Low
	Recreation	Presence of clubs / recreation use	Presence / absence	Club recreation use present No club / recreation use	Very High - High - Medium[4] Low

Notes to Table 1

1 If the river is unclassified and hence has no GQA grade, the quality can be measured or assumptions can be made based on the grade of the nearest classified stretch.

2 An importance level of high or very high must also be awarded if the water feature provides more than 10m3/day of drinking water, or serves more than 50 people, which is the definition used in the Water Framework Directive to define drinking water protected areas.

3 Conservation value is not included, as this should be included within an ecology/nature conservation assessment.

4 This required judgement on a case by case basis because the importance of use by people is being assessed, and they are sensitive to being categorised as unimportant. Careful assessment is thus required, using as much data as possible eg on the facilities, their scale and frequency of use, membership levels and economic value.

5 An importance level of 'Medium' or greater must also be awarded if a river has a catchment greater than 10km2, as this means that it will be classified as a water body under the Water Framework Directive. Other measures are available for describing the ability of watercourses to convey flow and material (such as the carrying capacity of the channel for flood flows) and could if necessary be substituted.

6 Based on criteria given within the Water Frame Work Directive for features to be designated as drinking water protected areas.

7 Adapted from NRA Policy and Practice for the Protection of Groundwater, Groundwater Vulnerability Sheets, NRA 1994. Because soil information in urban areas is less reliable and based on fewer observations than in rural areas, the worst case is assumed and such land is classified as being high of leaching potential. H = high, I = Intermediate, L = Low and U = Unclassified leaching potential.

8 This uses a coarse basis of permeability together with the ability of the existing ground conditions to accept additional flows. For example, gravels in a river floodplain are unlikely to have a high acceptance potential because of raised water table due to river flows. Sands above a relatively dry substrata would have a high potential, however caution is required in areas such as chalk with highly fluctuating groundwater levels.

9 Depends on use of water, volume abstracted etc. An importance level of 'High' or 'Very high' mus be awarded if the water feature provides more than 10m3/day of drinking water, or serves more than 50 people, which is the definition used in the Water Framework Directive to define drinking water protected areas.

Table 2: Criteria for determining impact magnitude (reproduced from Table 3 of TAG unit 3.3.11)

Magnitude	Criteria	Example
Major	Results in loss of attribute	• Loss of EC designated Salmonid fishery • Compromise employment source • Pollution of potable source of abstraction • Change in GQA grade of river reach • Loss of flood storage / increased flood risk
Moderate	Results in impact on integrity of attribute or loss of art of attribute	• Loss in productivity of a fishery • Contribution of a significant proportion of the effluent in the receiving river, but insufficient to change its GQA grade • Reduction in the economic value of the feature
Minor	Results in minor impact on attribute	• Measurable change in attribute, but of limited size and/or proportion
Negligible	Results in an impact on attribute but of insufficient magnitude to affect the use / integrity	• Discharges to watercourse but no significant loss in quality, fishery productivity or biodiversity • No significant impact on the economic value of the feature • No increase in flood risk

Table 3: Significance Criteria of Potential Impacts
(Reproduced from Table 4 of TAG unit 3.3.11)

Magnitude of Potential impact	Importance of Attribute			
	Very High	**High**	**Medium**	**Low**
Major	Very Significant	Very Significant	Significant	Low Significant
Moderate	Very Significant	Significant	Low Significant	Insignificant
Minor	Significant	Low Significant	Insignificant	Insignificant
Negligible	Low Significant	Insignificant	Insignificant	Insignificant

Table 4: Proposed impact assessment summary table

Feature	Attribute / Service	Importance Level	Magnitude of Impact	Significance of Impact
River	Water Supply	Very High	Minor	Significant

References

1 The Highways Agency et al, Design Manual for Roads and Bridges, Vol 11. Environmental Assessment, 1993.
2 DETR 'Guidance on the New Approach to Appraisal, 1998.
3 Department for Transport, Transport Analysis Guidance (TAG) 2003

Appendix C – Site Investigation Logs

Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH201

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 07/02/2024	**Engineer** MW	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.80)	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium grained SAND with frequent rootlets. Gravel is fine to medium brick and mixed lithology.		
						0.80	Stiff brown silty CLAY with occasional sand bands.		
1.20-1.65	SPT N=11			2,1/2,3,3,3					
2.00-2.45 2.00	SPT N=13 B1			3,2/3,3,3,4					
3.00-3.45	U1			17 blows					
4.00-4.45	SPT N=11			2,3/2,3,3,3					
5.00-5.45	SPT N=16			2,3/3,4,4,5		(9.20)			
6.00	B2								
6.50-6.95	SPT N=13			3,3/2,3,4,4					
8.00-8.45	U2			15 blows					
				Water strike(1) at 9.00m, rose to 8.70m in 20 mins.					▼1 ▽1
9.50-9.95	SPT N=15			2,3/2,4,4,5					

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH201

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Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH201

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 07/02/2024	**Engineer** MW	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						10.00	Stiff becoming very stiff brown silty laminated CLAY.		
11.00-11.45	SPT N=11			2,2/2,3,3,3		(3.00)			▼2
12.50-12.95	SPT N=17			2,4/4,3,5,5					
				Water strike(2) at 13.00m, rose to 12.00m in 20 mins.		13.00	Medium dense brown silty fine SAND.		▽2
14.00-14.45	SPT N=18			2,3/4,4,4,6		(2.45)			
15.00-15.45	SPT N=29			4,4/6,6,8,9		15.45	Complete at 15.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH201

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Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH202

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 08/02/2024	**Engineer** MW	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(1.60)	MADE GROUND: Dark brown ashy, silty, slightly gravelly, fine to medium grained SAND with frequent rootlets. Gravel is fine to medium brick and mixed lithology (GRASS OVER TOPSOIL).		
1.20-1.65	SPT N=11			2,2/3,2,3,3		1.60	Stiff brown silty CLAY.		
2.00-2.45	SPT N=13			2,3/3,3,3,4					
3.00-3.45	SPT N=13			2,3/2,4,3,4					
4.00-4.45	SPT N=17			2,2/4,3,5,5					
5.00-5.45	SPT N=15			3,3/3,4,4,4		(8.40)			
6.50-6.95	U1			21 blows					
8.00-8.45	SPT N=12			2,3/3,3,2,4					
9.50-9.95	SPT N=10			Water strike(1) at 2,4/3,2,2,3 9.70m, rose to 9.00m in 20 mins.					▼1 ▽1

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH202

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Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH202

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 08/02/2024	**Engineer** MW	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						10.00	Medium dense becoming dense brown medium to coarse grained SAND with occasional clay bands.		
11.00-11.45	SPT N=13			3,2/2,3,4,4					
12.50-12.95	SPT N=20			3,4/4,4,6,6					
14.00-14.45	SPT N=25			4,3/6,4,7,8		(8.95)			
15.50-15.95	SPT N=24			3,4/3,6,6,9					
17.00-17.45	SPT N=27			3,3/4,7,8,8					
18.50-18.95	SPT N=34			3,5/8,9,8,9		18.95	Complete at 18.95m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH202

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Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH203

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 09/02/2024	**Engineer** MW	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(1.50)	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium grained SAND with frequent rootlets. Gravel is fine to medium brick and mixed lithology (GRASS OVER TOPSOIL).		
1.20-1.65	SPT N=16			2,3/3,4,4,5		1.50	Stiff brown silty CLAY.		
2.00-2.45	U1			36 blows					
3.00-3.45	SPT N=15			2,2/3,4,3,5					
4.00-4.45	SPT N=10			2,2/3,2,2,3					
5.00-5.45 5.00	SPT N=11 B1			2,3/2,2,3,4		(8.50)			
6.50-6.95	SPT N=15			2,4/3,4,4,4					
8.00-8.45	SPT N=16			2,2/3,4,4,5					
9.50-9.95	U2			25 blows					▼1

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH203

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Sutcliffe

Site	Borehole Number
Cheetham Hill, Manchester	BH203

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			Mosscare St Vincents	33716LG
	Location	**Dates** 09/02/2024	**Engineer** MW	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				Water strike(1) at 10.00m, rose to 9.70m in 20 mins.		10.00	Medium dense becoming dense brown silty fine grained SAND.		▽1
11.00-11.45	SPT N=12			3,4/3,3,3,3					
12.50-12.95	SPT N=21			2,4/4,5,6,6		(5.45)			
14.00-14.45	SPT N=23			1,5/4,5,7,7					
15.00-15.45	SPT N=25			3,3/4,5,7,9		15.45	Complete at 15.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.BH203

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS101

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location	**Dates** 30/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.40)	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					0.40			
					(1.10)	MADE GROUND: Brown, slightly sandy, slightly silty, gravelly, CLAY. Gravel is fine to coarse, angular of brick, concrete and mixed lithology.		
1.20-1.65	SPT N=17		4,4/5,4,4,4					
					1.50	MADE GROUND: Half bricks with occasional fine to medium, angular GRAVEL of ash.		
2.00-2.45	SPT N=8		3,3/2,2,2,2		(0.90)			
					2.40			
					2.50	MADE GROUND: Dark brown, slightly sandy, fine to coarse, angular GRAVEL of coal, glass, rubber and mixed lithology.		
						Stiff, brown, slightly silty, CLAY.		
3.00-3.45	SPT N=12		2,2/3,3,3,3					
4.00-4.45	SPT N=15		3,3/4,4,3,4		(2.95)			
5.00-5.45	SPT N=12		3,3/3,3,3,3					
					5.45	Complete at 5.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS101

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS102

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location	**Dates** 30/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.40) 0.60	MADE GROUND: Dark brown, slightly silty, gravelly, CLAY. Gravel is angular to sub angular, fine to medium of brick, concrete and glass.		
1.20-1.65	SPT N=12		3,3/3,3,3,3			Stiff becoming very stiff, brown, slightly silty, CLAY.		
2.00-2.45	SPT N=21		3,5/5,6,5,5		(2.40)			
3.00-3.45	SPT N=15		3,4/3,4,4,4		3.00	Stiff becoming firm, brown, slightly silty, CLAY.		
4.00-4.45	SPT N=16		4,4/4,4,4,4		(2.45)			
5.00-5.45	SPT N=8		3,3/2,2,2,2		5.45	Complete at 5.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS102

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS103

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location	**Dates** 30/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
						Very stiff, brown mottled grey, slightly silty, CLAY.			
1.20-1.65	SPT N=11		2,3/3,2,3,3		(2.60)				
2.00-2.45	SPT N=17		3,3/5,4,4,4						
3.00-3.45	SPT N=19		3,5/5,5,4,5		3.00 (1.00)	Stiff becoming very stiff, brown mottled grey, slightly silty, CLAY.			
4.00-4.45	SPT N=16		4,4/4,4,4,4		4.00 (1.45)	Stiff, brown mottled grey, slightly silty, CLAY.			
5.00-5.45	SPT N=13		4,3/4,3,3,3		5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS103

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS104

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384022 E 400784 N	**Dates** 29/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
						Stiff becoming very stiff, brown, slightly gravelly CLAY. Gravel is fine to medium, angular of mixed lithology.			
1.20-1.65	SPT N=9		2,2/2,3,2,2						
2.00-2.45	SPT N=15		3,3/4,4,3,4		(3.92)				
3.00-3.45	SPT N=20		4,4/5,5,5,5						
3.90-4.32	SPT 50/270		3,12/16,14,13,7		4.32	Complete at 4.32m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS104

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS105

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384040 E 400746 N	**Dates** 28/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.55) 0.95	MADE GROUND: dark brown, slightly silty, gravelly, fine to medium SAND. Gravel is angular, fine to coarse, of brick, concrete and mixed lithology.		
					1.00	MADE GROUND: Asphalt.		
						Complete at 1.00m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS105

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS105A

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384040 E 400746 N	**Dates** 28/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					(0.60) 1.00	MADE GROUND: Dark brown, slightly silty, gravelly, fine to medium SAND. Gravel is angular, fine to coarse, of brick, concrete and mixed lithology.			
1.20-1.65	SPT N=9		3,2/2,3,2,2		(1.00) 2.00	MADE GROUND: Brown, slightly gravelly, CLAY. Gravel is fine to coarse, angular of brick and mixed lithology.			
2.00-2.45	SPT N=15		3,3/4,3,4,4			Medium dense brown, slightly silty, fine SAND.			
3.00-3.45	SPT N=18		3,4/5,5,5,3		(1.70) 3.70				
4.00-4.45	SPT N=18		4,4/4,6,4,4			Very stiff becoming stiff, brown, slightly silty, CLAY.			
5.00-5.45	SPT N=12		4,3/3,3,3,3		(1.75) 5.45				
						Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS105A

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS106

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384063 E 400741	**Dates** 27/11/2024	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.40)	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					0.40				
					(0.40)	MADE GROUND: Dark brown, slightly silty, very gravelly, fine to medium, SAND. Gravel is fine to coarse, angular to sub rounded of brick, ash, and mixed lithology.			
					0.80				
					(0.30)	MADE GROUND: Dark brown, sandy, clayey, angular, GRAVEL of ash and mixed lithology.			
1.00-1.45	SPT N=19		3,5/6,5,4,4		1.10				
					(0.90)	MADE GROUND: Brown, slightly silty, slightly clayey, very cobbly, fine to medium SAND. Cobbles are small to medium of brick.			
2.00-2.45	SPT N=12		3,3/3,3,3,3		2.00	Stiff, brown, slightly silty, CLAY.			
3.00-3.45	SPT N=11		2,3/2,3,3,3						
					(3.45)				
4.00-4.45	SPT N=16		3,4/4,4,4,4						
5.00-5.45	SPT N=11		3,3/2,3,3,3						
					5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS106

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS107

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384081 E 400734 N	**Dates** 28/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.80) 0.80	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
1.20-1.65	SPT N=14		3,3/4,3,4,3		(1.20) 2.00	MADE GROUND: dark brown, slightly silty, slightly sandy, slightly gravelly, CLAY. Sand is fine to medium of brick and mixed lithology.			
2.00-2.45	SPT N=16		3,4/4,4,4,4		(1.00) 3.00	Medium dense light greyish brown, fine to medium SAND.			
3.00-3.45	SPT N=11		2,2/3,2,3,3		(2.45) 5.45	Stiff, greyish brown, slightly silty, CLAY.			
4.00-4.45	SPT N=16		3,4/5,5,3,3						
5.00-5.45	SPT N=8		2,2/2,2,2,2						
						Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS107

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS108

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384025 E 400711 N	**Dates** 28/11/2024	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.55) 0.95	MADE GROUND: brown, slightly silty, slightly gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology.		
1.00-1.38	SPT 50/230		10,12/16,18,16		(0.43) 1.38	MADE GROUND: Asphalt.		
						Complete at 1.38m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS108

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS109

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384050 E 400703 N	**Dates** 28/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
1.20-1.65	SPT N=9		2,2/3,2,2,2		(1.60) 2.00	MADE GROUND: Brown, slightly silty, clayey, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete, ash and mixed lithology.			
2.00-2.45	SPT N=5		1,2/1,2,1,1		(1.00) 3.00	Soft, brown, slightly silty, slightly gravelly, CLAY. Gravel is fine, angular of mixed lithology.			
3.00-3.45	SPT N=12		2,3/3,3,3,3		(2.45) 5.45	Stiff, brown, slightly silty, slightly gravelly, CLAY. Gravel is fine, angular of mixed lithology.			
4.00-4.45	SPT N=13		3,3/4,3,3,3						
5.00-5.45	SPT N=12		2,3/3,3,3,3						
					5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS109

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS110

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384111 E 400699 N	**Dates** 29/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					(1.30)	MADE GROUND: Dark brown, slightly silty, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, ash and mixed lithology.			
1.20-1.65	SPT N=12		2,3/3,3,3,3		1.60	Stiff, brown, CLAY with rare fine to medium sand bands.			
2.00-2.45	SPT N=12		3,3/3,3,3,3						
3.00-3.45	SPT N=15		3,3/4,4,3,4		(2.85)				
4.00-4.45	SPT N=11		3,4/3,2,3,3						
					4.45	Complete at 4.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS110

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS111

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 383970 E 400713 N	**Dates** 27/11/2024	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					(1.20)	MADE GROUND: Brown, sandy, angular fine to coarse GRAVEL of brick and ash. Occasional half brick.			
1.20-1.65	SPT N=31		3,4/4,4,18,5		1.50	Very stiff becoming stiff, brown , slightly sandy, slightly gravelly, CLAY. Gravel is fine, angular of mixed lithology. Sand is fine.			
2.00-2.45	SPT N=18		2,3/4,4,4,6						
3.00-3.45	SPT N=15		3,3/4,4,3,4		(3.95)				
4.00-4.45	SPT N=11		3,3/2,3,3,3						
5.00-5.45	SPT N=17		2,3/3,4,5,5		5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS111

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS112

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 383992 E 400703 N	**Dates** 27/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.30) 0.60	MADE GROUND: Brown, gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick and mixed lithology.		
1.20-1.65	SPT N=10		2,2/3,2,3,2			Stiff, brown, slightly sandy, CLAY. Sand is fine to medium.		
2.00-2.45	SPT N=16		3,4/4,4,4,4					
3.00-3.45	SPT N=13		3,4/3,4,3,3		(4.85)			
4.00-4.45	SPT N=12		3,3/3,3,3,3					
5.00-5.45	SPT N=12		3,3/3,3,3,3					
					5.45	Complete at 5.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS112

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS113

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384024 E 400692 N	**Dates** 01/12/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					(0.80) 1.00	MADE GROUND: Dark brown, silty, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology.			
1.20-1.65	SPT N=13		2,3/4,3,3,3		(1.00) 2.00	MADE GROUND: Brown, slightly gravelly, slightly sandy, CLAY. Gravel is angular, fine to coarse of brick, concrete and mixed lithology.			
2.00-2.45	SPT N=11		2,2/3,3,2,3			Stiff, brown, slightly gravelly CLAY with occasional fine sand bands. Gravel is rounded, fine to coarse of mixed lithology.			
3.00-3.45	SPT N=16		3,3/4,4,4,4						
4.00-4.45	SPT N=17		3,4/3,5,4,5		(3.45)				
5.00-5.45	SPT N=12		3,3/3,3,3,3						
					5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS113

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS114

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384113 E 400659 N	**Dates** 29/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.60) 0.90	MADE GROUND: dark brown, slightly silty, slightly gravelly, fine SAND.		
					1.00	MADE GROUND: Concrete		
1.20-1.65	SPT N=13		3,3/3,4,3,3		(1.50) 2.50	MADE GROUND: Dark brown, slightly silty, slightly gravelly, CLAY. Gravel is fine to coarse of brick and mixed lithology.		
2.00-2.45	SPT N=15		3,4/4,3,4,4					
3.00-3.45	SPT N=10		2,2/2,3,2,3			Stiff, brown, slightly silty, CLAY.		
4.00-4.45	SPT N=16		5,4/4,4,4,4		(2.95) 5.45			
5.00-5.45	SPT N=9		4,4/3,2,2,2			Complete at 5.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS114

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS115

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384110 E 400630 N	**Dates** 27/11/2023	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.55) 0.75	MADE GROUND: Dark brown, silty, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology.		
1.20-1.65	SPT N=19		2,3/5,5,4,5		(0.65) 1.40	Brown, CLAY.		
2.00-2.45	SPT N=14		2,3/3,4,4,3		(1.20) 2.60	Medium dense brown, mottled orangish brown, silty, fine to medium SAND.		
3.00-3.45	SPT N=12		2,2/2,4,3,3			Stiff becoming firm, brown, slightly gravelly, slightly silty CLAY. Gravel is angular, fine of mixed lithology.		
4.00-4.45	SPT N=8		2,2/2,2,2,2		(2.40) 5.00			
5.00-5.45	SPT N=9		2,2/1,2,3,3		(0.45) 5.45	Stiff, brown, slightly gravelly, slightly silty CLAY. Gravel is angular, fine of mixed lithology.		
						Complete at 5.45m		

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS115

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Sutcliffe

Site	Number
Cheetham Hill, Manchester	WS116

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Windowless Sampler			Mosscare St Vincents	33716LG
	Location 384093 E 400583 N	**Dates** 27/11/2024	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).			
					(0.40) 0.60	MADE GROUND: Dark brown, silty, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology.			
					(0.25) 0.85	MADE GROUND: Very stiff, slightly gravelly CLAY. Gravel is angular, fine to medium of brick and concrete.			
1.20-1.65	SPT N=8		1,2/2,2,2,2		(1.15)	Firm, brown, slightly silty, CLAY.			
2.00-2.45	SPT N=20		2,3/4,5,6,5		2.00	Very stiff becoming stiff, brown, slightly silty, CLAY.			
3.00-3.45	SPT N=16		2,3/4,4,4,4						
					(3.45)				
4.00-4.45	SPT N=11		3,4/3,3,2,3						
5.00-5.45	SPT N=12		2,3/3,3,3,3						
					5.45	Complete at 5.45m			

Remarks

Scale (approx)	Logged By
1:50	MW

Figure No. 33716LG.WS116

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP101

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	383936 N 400797 E	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.50) 0.80	MADE GROUND: Dark brown, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					(1.40) 2.20	Brown, slightly silty, slightly sandy, CLAY. Sand is fine.		
						Complete at 2.20m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP101

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP102

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	383979 N 400789 E	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.80) 1.00	MADE GROUND: Dark brown, gravelly, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					(1.20) 2.20	Brown, slightly silty, slightly sandy, slightly gravelly, CLAY. Sand is fine. Gravel is fine, angular of mixed lithology.		
						Complete at 2.20m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP102

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP103

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384014 E 400762	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					0.30 (0.45) 0.75	MADE GROUND: Light brown, sandy, angular, fine to medium GRAVEL of sandstone. Sand is fine to coarse.		
					(1.25)	MADE GROUND: Dark brown, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					2.00	Brown mottled grey, slightly silty, CLAY.		
						Complete at 2.00m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP103

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP104

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384039 N 400723 E	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.40) 0.40	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.90) 1.30	MADE GROUND: Dark brown, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					(1.20) 2.50	MADE GROUND: Dark brown, sandy, gravelly, CLAY with occasional road cobbles. Gravel is fine to coarse, angular to sub angular of brick and mixed lithology. Sand is fine to medium.		
					(0.20) 2.70	Brown, slightly silty, CLAY.		
						Complete at 2.70m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP104

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP105

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384057 E 400721	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(1.60) 1.80	MADE GROUND: Dark brown, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					(0.80) 2.60	MADE GROUND: very sandy, gravelly CLAY. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional whole bricks.		
					(0.20) 2.80	Brown mottled grey, slightly silty, CLAY.		
						Complete at 2.80m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP105

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP106

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384007 E 400699 N	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.40) 0.60	MADE GROUND: Dark brown, gravelly, slightly gravelly, slightly silty, fine to medium SAND. Gravel is fine to coarse, angular of brick, concrete and mixed lithology. Occasional large cobble of concrete.		
					(1.40) 2.00	Brown mottled grey, slightly silty, slightly sandy, CLAY.		
						Complete at 2.00m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP106

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP107

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384106 E 400684 N	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(1.10)	MADE GROUND: Dark brown, slightly silty, gravelly, fine to medium SAND. Gravel is fine to coarse, angular of brick, ash, mixed lithology.		
					1.40	Brown, slightly silty, CLAY with occasional fine sand bands.		
					(0.80)			
					2.20	Complete at 2.20m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP107

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	TP108

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates**	**Engineer**	**Sheet**
	384100 E 400606 N	01/12/2023	MW	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	MADE GROUND: Dark brown, silty, slightly gravelly, fine to medium SAND. Gravel is fine to medium SAND with frequent rootlets. Gravel is fine to medium, angular of brick and mixed lithology (GRASS OVER TOPSOIL).		
					(0.40) 0.60	MADE GROUND: Brown, gravelly, slightly clayey, fine to medium, SAND. Gravel is fine to coarse, angular of brick and ash.		
					(0.80) 1.40	MADE GROUND: greyish brown, sandy, slightly gravelly, CLAY. Sand is fine, Gravel is angular, fine to coarse, of brick.		
					(0.90) 2.30	Greyish brown, slightly silty CLAY with occasional fine sand bands.		
						Complete at 2.30m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.TP108

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Sutcliffe

Site	Trial Pit Number
Cheetham Hill, Manchester	SA201

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mosscare St Vincents	33716LG
	Location	**Dates** 08/02/2024	**Engineer** MW	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.55)	MADE GROUND: Dark brown, slightly silty, slightly gravelly, fine to medium grained SAND. Gravel is fine to coarse, sub-rounded to angular of ceramic and mixed lithology.		
					0.55 (0.25) 0.80	MADE GROUND: Brown, slightly gravelly, slightly sandy CLAY with occasional whole bricks. Sand is fine to coarse. Gravel is fine to coarse sub-rounded to angular of brick and mixed lithology.		
					(1.20)	Brown slightly gravelly CLAY. Gravel is fine angular to rounded of mixed lithology.		
					2.00	Complete at 2.00m		



Remarks

Scale (approx)	Logged By	Figure No.
1:50	MW	33716LG.SA201

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SUTCLIFFE INVESTIGATIONS

TEL: 0151 227 3155
FAX: 0151 227 3156

BRE 365
Soil Infiltration Test

Job No.:	33716LG	**Job Name:**	Cheetham Hill, Manchester		
Position Ref.:	SA201	**Date:**	08/02/2024	**Site Team:**	MW

Pit Dimensions

Depth (m)	2.00	**Width (m)**	0.70	**Length (m)**	2.00
Depth to Water (m bgl)		1.00	**Effective Depth (m)**		1.00

Soil Infiltration Test Data

Time (mins)	Depth (m bgl)
0	1.00
30	1.00
60	1.00
90	1.00
120	1.00
150	1.00
180	1.00

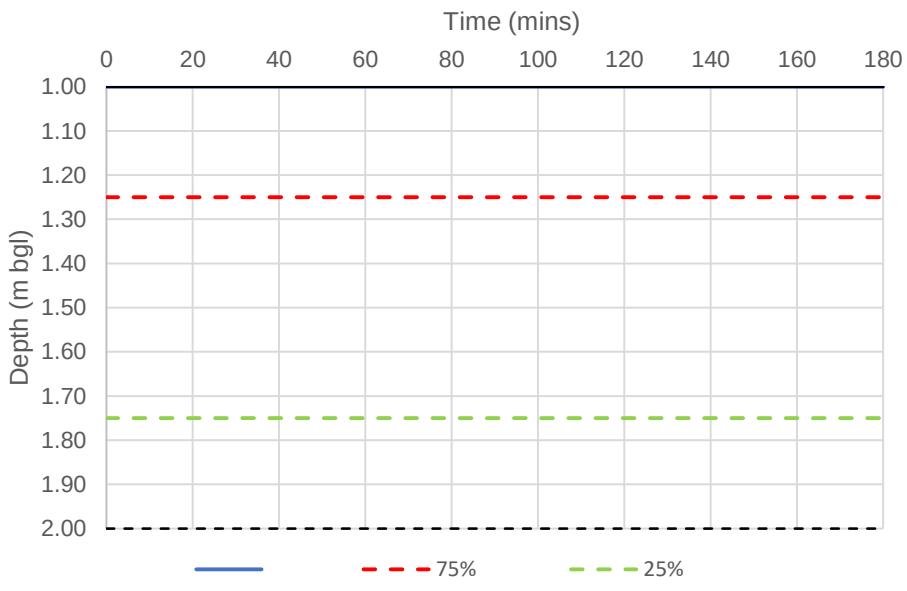
Volume Outflowing between 75% and 25% of effective depth

V_{p75-25}	=	**L**	x	**B**	x	D_{75-25}
	=	2.00	x	0.70	x	0.50
	=	0.21	m^3	(30% Void Allowance Made)		

Mean surface area through which outflow occurs, taken to be pit sides to 50% effective depth and including the base of the pit

a_{p50}	=	**L_{side} Area**	+	**B_{side} Area**	+	**Base Area**
	=	2.00	+	0.70	+	1.40
	=	4.10	m^2			

Soil Infiltration Test Graph



Depth at 75% (m bgl)	1.25	**Depth at 25% (m bgl)**	1.75

Infiltration Rate Calculation

t_{p75-25}	=	**Time at 25%**	-	**Time at 75%**		
	=		-		=	-

Soil Infiltration Rate = V_{p75-25} / (a_{p50}*t_{p75-25}*60)

= - m/s = - mm/hr

Comments

Test Failed - The test results did not provide an infiltration rate due to the inefficiencies of the ground to infiltrate. Infiltration testing has been undertaken and failed, therefore alternative drainage solutions will be required.

Appendix D – Analytical Certificates

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

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/11847
Issue Number: 1 **Date:** 11 December, 2023

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 Hill
Project Ref: 33716LG
Order No: 10089
Date Samples Received: 29/11/23
Date Instructions Received: 30/11/23
Date Analysis Completed: 11/12/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
% Moisture at <40C$_A$	22.1	18.3	-	14.2	12.6	15.9	19.8	% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	12.5	<0.1	19.4	16.6	9.9	10.8	% w/w	0.1	A-T-044
pH$_D$ M#	6.67	7.14	7.73	7.92	8.16	8.49	7.68	pH	0.01	A-T-031s
Electrical conductivity @ 20degC$_D$	-	-	305	-	-	-	-	µs/cm	10	A-T-037s
Sulphate (water sol 2:1)$_D$ M#	<0.01	0.04	-	0.04	0.03	0.08	0.03	g/l	0.01	A-T-026s
Sulphate (acid soluble)$_D$ M#	660	920	-	660	480	2400	440	mg/kg	200	A-T-028s
Cyanide (total)$_A$ M#	<1	<1	-	<1	<1	<1	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Sulphide$_A$	110	80	-	73	61	59	48	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$ M#	<5	<5	-	11	<5	<5	<5	mg/kg	5	A-T-029s
Organic Matter$_D$ M#	7.2	5.7	-	2.0	4.0	3.9	4.9	% w/w	0.1	A-T-032s
Arsenic$_D$ M#	8	12	-	6	10	10	7	mg/kg	1	A-T-024s
Boron (water soluble)$_D$ M#	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium$_D$ M#	0.8	1.1	-	0.6	0.5	0.7	0.5	mg/kg	0.5	A-T-024s
Copper$_D$ M#	37	55	-	31	37	44	28	mg/kg	1	A-T-024s
Chromium$_D$ M#	20	31	-	23	19	29	17	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	-	<1	<1	<1	<1	mg/kg	1	A-T-040s
Chromium (trivalent)	20	31	-	23	19	29	17	mg/kg	1	Calc
Lead$_D$ M#	88	154	-	79	88	109	57	mg/kg	1	A-T-024s
Mercury$_D$	<0.17	1.80	-	0.43	0.48	1.41	<0.17	mg/kg	0.17	A-T-024s
Nickel$_D$ M#	20	24	-	24	21	27	14	mg/kg	1	A-T-024s
Selenium$_D$ M#	<1	<1	-	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc$_D$ M#	85	133	-	67	61	124	62	mg/kg	5	A-T-024s
Redox Potential (water soluble)$_D$	-	-	237	-	-	-	-	mV		Redox

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	-	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	-	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.04	0.03	-	0.07	0.03	0.89	0.04	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	-	<0.01	<0.01	0.05	<0.01	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.05	0.06	-	0.11	0.05	1.16	0.08	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.24	0.22	-	0.46	0.31	2.60	0.34	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.26	0.19	-	0.43	0.33	2.09	0.31	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.31	0.24	-	0.54	0.40	2.44	0.39	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.15	0.12	-	0.26	0.22	0.99	0.18	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.14	0.12	-	0.22	0.18	0.97	0.18	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	0.31	0.26	-	0.53	0.37	2.71	0.40	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.04	<0.04	-	0.06	0.05	0.22	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	0.47	0.51	-	0.96	0.53	6.30	0.77	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.03	0.02	-	0.04	<0.01	0.72	0.03	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.18	0.12	-	0.30	0.23	1.12	0.20	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	-	<0.03	<0.03	0.50	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.23	0.29	-	0.48	0.21	5.31	0.40	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	0.45	0.47	-	0.84	0.52	5.49	0.67	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	2.86	2.65	-	5.30	3.43	33.6	3.99	mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
SVOC										
4-Bromophenyl phenyl ether$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2,4-Trichlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,4-Dichlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,3-Dichlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2-Dichlorobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	-	254	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
Benzo(b)fluoranthene$_A$	-	-	264	-	-	-	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	-	282	-	-	-	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	-	190	-	-	-	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	-	246	-	-	-	-	µg/kg	100	A-T-052s
Fluoranthene$_A$	-	-	424	-	-	-	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	-	195	-	-	-	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	-	264	-	-	-	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	-	434	-	-	-	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Phenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobutadiene$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
SVOC Total (excl. PAH/Phenols/Cresols)$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Phenol Total$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Cresol & Chlorinated Phenol Total$_A$	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
VOC										
Dichlorodifluoromethane$_A$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane$_A$	-	-	<250	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^{\#}$	-	-	<25^U	-	-	-	-	µg/kg	1	A-T-006s
Bromomethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^{\#}$	-	-	<25^U	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	-	-	<125	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^{\#}$	-	-	<125	-	-	-	-	µg/kg	5	A-T-006s
Chloroform$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^{\#}$	-	-	<50	-	-	-	-	µg/kg	2	A-T-006s
Benzene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^{\#}$	-	-	<250	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Toluene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^{\#}$	-	-	<75	-	-	-	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
Chlorobenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_{A}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Ethylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
m & p Xylene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Styrene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Bromoform$_{A}^{\#}$	-	-	<75	-	-	-	-	µg/kg	3	A-T-006s
Isopropylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_{A}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_{A}^{\#}$	-	-	<50	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_{A}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_{A}$	-	-	<50	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_{A}$	-	-	<75	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_{A}^{\#}$	-	-	<25	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_{A}$	-	-	<75	-	-	-	-	µg/kg	3	A-T-006s
VOC Total$_{A}$	-	-	<250	-	-	-	-	µg/kg	10	A-T-006s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
TPH CWG with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A$$^{M\#}$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A$$^{M\#}$	<1	<1	<1	<1	<1	1	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A$$^{M\#}$	<1	1	<1	2	<1	2	1	mg/kg	1	A-T-055s
Ali >C21-C35$_A$$^{M\#}$	12	19	5	17	16	36	17	mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	-	5	-	-	-	-	mg/kg	1	Calc-As Recd
Aro >C5-C7$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<3	<3	<1	5	<3	<3	<3	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	3	<1	1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	3	3	<1	6	2	7	2	mg/kg	1	A-T-055s
Aro >C16-C21$_A$$^{M\#}$	8	12	3	24	7	32	10	mg/kg	1	A-T-055s
Aro >C21-C35$_A$$^{M\#}$	30	58	10	95	36	125	32	mg/kg	1	A-T-055s
EPH Total Ali & Aro (>C10-C16)$_A$$^{\#}$	-	-	<1	-	-	-	-	mg/kg	1	A-T-055s
EPH Total Ali & Aro (>C16-C35)$_A$$^{M\#}$	-	-	16	-	-	-	-	mg/kg	1	A-T-055s
Total Aromatics$_A$	-	-	13	-	-	-	-	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35)$_A$	-	-	18	-	-	-	-	mg/kg	1	Calc-As Recd
BTEX and MTBE Total$_A$	-	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Benzene$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
VPH total (>C5-C10)$_A$$^{\#}$	-	-	<0.01	-	-	-	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS116	WS115	WS115	WS113	WS112	WS111	ws108			
Depth to Top	0.0	0.2	0.8	0.5	0.3	0.3	0.0			
Depth To Bottom	0.2	0.75	1.2	1.0	0.6	0.6	0.4			
Date Sampled	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	27-Nov-23	28-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6AE	6A	6AE	4AB	4ABE	4AE			
TPH UKCWG with Clean Up										
Ali >C35-C44$_A$	1	3	-	3	2	9	2	mg/kg	1	A-T-055s
Total Aliphatics$_A$	13	24	-	23	19	48	20	mg/kg	1	Calc-As Recd
Aro >C35-C44$_A$	<1	2	-	3	<1	5	1	mg/kg	1	A-T-055s
Total Aromatics$_A$	40	75	-	135	46	171	46	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	53	99	-	158	65	220	66	mg/kg	1	Calc-As Recd

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
% Moisture at <40C$_A$	15.6	-	13.2	10.8	15.8	-	16.9	% w/w	0.1	A-T-044
% Stones >10mm$_A$	23.4	3.7	18.5	21.6	21.4	<0.1	18.4	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.94	8.02	8.08	8.47	8.09	8.31	6.94	pH	0.01	A-T-031s
Electrical conductivity @ 20degC$_D$	-	174	-	-	-	114	-	µs/cm	10	A-T-037s
Sulphate (water sol 2:1)$_D$$^{M\#}$	<0.01	-	0.02	0.05	0.06	-	<0.01	g/l	0.01	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	480	-	640	620	650	-	210	mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	-	<1	<1	<1	-	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	A-T-050s
Sulphide$_A$	33	-	53	19	11	-	9	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	-	<5	<5	<5	-	<5	mg/kg	5	A-T-029s
Organic Matter$_D$$^{M\#}$	4.6	-	5.1	4.2	5.2	-	1.3	% w/w	0.1	A-T-032s
Arsenic$_D$$^{M\#}$	12	-	20	17	9	-	2	mg/kg	1	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	-	<1.0	<1.0	<1.0	-	<1.0	mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	0.8	-	1.1	1.0	0.7	-	<0.5	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	51	-	72	67	59	-	14	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	16	-	23	23	15	-	11	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	-	<1	<1	<1	-	<1	mg/kg	1	A-T-040s
Chromium (trivalent)	16	-	23	23	15	-	11	mg/kg	1	Calc
Lead$_D$$^{M\#}$	118	-	196	161	69	-	29	mg/kg	1	A-T-024s
Mercury$_D$	0.83	-	1.15	1.43	1.60	-	<0.17	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	19	-	20	20	17	-	11	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	-	<1	<1	<1	-	<1	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	81	-	214	83	60	-	26	mg/kg	5	A-T-024s
Redox Potential (water soluble)$_D$	-	235	-	-	-	209	-	mV		Redox

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	-	NAD	NAD	NAD	-	NAD			A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	-	N/A	N/A	N/A	-	N/A			A-T-045

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.09	-	2.41	0.23	0.22	-	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.02	-	0.08	0.02	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.14	-	3.13	0.33	0.28	-	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.65	-	4.68	1.21	0.96	-	0.06	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.56	-	3.23	1.05	0.86	-	0.06	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.69	-	3.75	1.24	1.05	-	0.07	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.29	-	1.47	0.54	0.49	-	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.29	-	1.28	0.47	0.43	-	<0.07	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	0.72	-	4.47	1.23	1.04	-	0.08	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.06	-	0.36	0.12	0.10	-	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	1.41	-	12.2	2.73	2.04	-	0.10	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.05	-	1.87	0.12	0.11	-	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.34	-	1.82	0.65	0.56	-	0.04	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.04	-	0.92	0.06	0.12	-	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.58	-	11.8	1.37	1.11	-	0.04	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	1.27	-	10.2	2.30	1.71	-	0.10	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	7.20	-	63.7	13.7	11.1	-	0.55	mg/kg	0.01	A-T-019s

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
SVOC										
4-Bromophenyl phenyl ether$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Hexachlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Diethyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dimethyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dibenzofuran$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Carbazole$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate$_A$	-	<500	-	-	-	<500	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
4-Nitrophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
3+4-Methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Nitrophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Methylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
1,2,4-Trichlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Chlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
1,4-Dichlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
1,3-Dichlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
1,2-Dichlorobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Chloronaphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
2-Methylnaphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Acenaphthylene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Acenaphthene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Anthracene$_A$	-	183	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(a)anthracene$_A$	-	677	-	-	-	<100	-	µg/kg	100	A-T-052s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
Benzo(b)fluoranthene$_A$	-	584	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(k)fluoranthene$_A$	-	221	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(a)pyrene$_A$	-	572	-	-	-	<100	-	µg/kg	100	A-T-052s
Benzo(ghi)perylene$_A$	-	331	-	-	-	<100	-	µg/kg	100	A-T-052s
Chrysene$_A$	-	675	-	-	-	<100	-	µg/kg	100	A-T-052s
Fluoranthene$_A$	-	1350	-	-	-	<100	-	µg/kg	100	A-T-052s
Fluorene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene$_A$	-	349	-	-	-	<100	-	µg/kg	100	A-T-052s
Phenanthrene$_A$	-	823	-	-	-	<100	-	µg/kg	100	A-T-052s
Pyrene$_A$	-	1350	-	-	-	<100	-	µg/kg	100	A-T-052s
Naphthalene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Dibenzo(ah)anthracene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Phenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Pentachlorophenol$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
n-Dioctylphthalate$_A$	-	<500	-	-	-	<500	-	µg/kg	500	A-T-052s
n-Dibutylphthalate$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Nitrobenzene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Isophorone$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Hexachloroethane$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Hexachlorobutadiene$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
SVOC Total (excl. PAH/Phenols/Cresols)$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Phenol Total$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s
Cresol & Chlorinated Phenol Total$_A$	-	<100	-	-	-	<100	-	µg/kg	100	A-T-052s

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
VOC										
Dichlorodifluoromethane$_A$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Chloromethane$_A$	-	<250	-	-	-	<50	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene)$_A^{\#}$	-	<25^U	-	-	-	<5^U	-	µg/kg	1	A-T-006s
Bromomethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Chloroethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Trichlorofluoromethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1-Dichloroethene$_A^{\#}$	-	<25^U	-	-	-	<5^U	-	µg/kg	1	A-T-006s
Carbon Disulphide$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Dichloromethane$_A$	-	<125	-	-	-	<25	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1-Dichloroethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
2,2-Dichloropropane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Bromochloromethane$_A^{\#}$	-	<125	-	-	-	<25	-	µg/kg	5	A-T-006s
Chloroform$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1-Dichloropropene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Carbon Tetrachloride$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2-Dichloroethane$_A^{\#}$	-	<50	-	-	-	<10	-	µg/kg	2	A-T-006s
Benzene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Trichloroethene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2-Dichloropropane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Dibromomethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Bromodichloromethane$_A^{\#}$	-	<250	-	-	-	<50	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Toluene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,3-Dichloropropane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Tetrachloroethene$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Dibromochloromethane$_A^{\#}$	-	<75	-	-	-	<15	-	µg/kg	3	A-T-006s
1,2-Dibromoethane$_A^{\#}$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
Chlorobenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane$_A$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Ethylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
m & p Xylene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
o-Xylene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Styrene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Bromoform$_A^\#$	-	<75	-	-	-	<15	-	µg/kg	3	A-T-006s
Isopropylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane$_A$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
Bromobenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
n-Propylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
2-Chlorotoluene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
4-Chlorotoluene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
tert-Butylbenzene$_A^\#$	-	<50	-	-	-	<10	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
sec-Butylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
4-Isopropyltoluene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene$_A$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
n-Butylbenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP)$_A$	-	<50	-	-	-	<10	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene$_A$	-	<75	-	-	-	<15	-	µg/kg	3	A-T-006s
Hexachlorobutadiene$_A^\#$	-	<25	-	-	-	<5	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene$_A$	-	<75	-	-	-	<15	-	µg/kg	3	A-T-006s
VOC Total$_A$	-	<250	-	-	-	<50	-	µg/kg	10	A-T-006s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
TPH CWG with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	<1	2	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	1	3	<1	2	2	<1	mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	4	5	80	42	24	4	9	mg/kg	1	A-T-055s
Total Aliphatics$_A$	-	6	-	-	-	10	-	mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<3	<1	<3	<3	<3	1	<3	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	2	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	3	5	8	5	8	2	<1	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	11	15	29	19	35	2	6	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	41	53	99	54	107	2	22	mg/kg	1	A-T-055s
EPH Total Ali & Aro (>C10-C16)$_A^{\#}$	-	5	-	-	-	5	-	mg/kg	1	A-T-055s
EPH Total Ali & Aro (>C16-C35)$_A^{M\#}$	-	75	-	-	-	12	-	mg/kg	1	A-T-055s
Total Aromatics$_A$	-	73	-	-	-	9	-	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35)$_A$	-	79	-	-	-	19	-	mg/kg	1	Calc-As Recd
BTEX and MTBE Total$_A$	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
VPH total (>C5-C10)$_A^{\#}$	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12	23/11847/13	23/11847/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS109	WS109	WS107	WS106	WS105	WS105A	WS104			
Depth to Top	0.4	1.0	0.0	0.4	0.4	1.0	0.0			
Depth To Bottom	1.0	1.3	0.4	0.8	0.8	1.3	0.4			
Date Sampled	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	28-Nov-23	29-Nov-23			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6ABE	6A	4AE	4AB	4ABE	5AE	6AE			
TPH UKCWG with Clean Up										
Ali >C35-C44$_A$	<1	-	26	11	4	-	<1	mg/kg	1	A-T-055s
Total Aliphatics$_A$	5	-	110	54	30	-	10	mg/kg	1	Calc-As Recd
Aro >C35-C44$_A$	<1	-	14	5	3	-	<1	mg/kg	1	A-T-055s
Total Aromatics$_A$	54	-	152	83	153	-	27	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	59	-	262	137	183	-	37	mg/kg	1	Calc-As Recd

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/16	23/11847/17	23/11847/18	23/11847/19				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS110	WS110	WS114	WS114						
Depth to Top	0.3	1.0	0.6	0.3						
Depth To Bottom	0.6	1.6	0.9	0.6						
Date Sampled	29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6ABE	4ABE	6A	6A						
% Moisture at <40C$_A$	16.3	15.4	20.8	22.3				% w/w	0.1	A-T-044
% Stones >10mm$_A$	16.6	12.7	<0.1	<0.1				% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.76	7.84	7.72	7.54				pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	<0.01	0.02	<0.01	0.04				g/l	0.01	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	430	710	500	600				mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{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$_A$	<5	<5	<5	<5				mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	10	<5	<5				mg/kg	5	A-T-029s
Organic Matter$_D$$^{M\#}$	5.4	6.5	5.9	4.9				% w/w	0.1	A-T-032s
Arsenic$_D$$^{M\#}$	13	27	10	13				mg/kg	1	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	<1.0	<1.0	<1.0				mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	1.3	1.9	0.9	1.4				mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	121	100	28	43				mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	22	37	17	19				mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1				mg/kg	1	A-T-040s
Chromium (trivalent)	22	37	17	19				mg/kg	1	Calc
Lead$_D$$^{M\#}$	138	790	65	76				mg/kg	1	A-T-024s
Mercury$_D$	0.80	0.69	<0.17	<0.17				mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	20	31	14	18				mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1				mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	119	223	65	80				mg/kg	5	A-T-024s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/16	23/11847/17	23/11847/18	23/11847/19				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS110	WS110	WS114	WS114						
Depth to Top	0.3	1.0	0.6	0.3						
Depth To Bottom	0.6	1.6	0.9	0.6						
Date Sampled	29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6ABE	4ABE	6A	6A						
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD						A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-						A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-						A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A						A-T-045

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/16	23/11847/17	23/11847/18	23/11847/19				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS110	WS110	WS114	WS114						
Depth to Top	0.3	1.0	0.6	0.3						
Depth To Bottom	0.6	1.6	0.9	0.6						
Date Sampled	29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6ABE	4ABE	6A	6A						
PAH-16MS										
Acenaphthene$_A^{M\#}$	0.32	1.01	0.05	0.03				mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	0.15	<0.01	<0.01				mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.34	1.95	0.09	0.04				mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.25	5.15	0.32	0.18				mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.12	4.07	0.27	0.17				mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.41	4.66	0.32	0.21				mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.61	2.00	0.15	0.09				mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.58	1.89	0.15	0.09				mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	1.29	5.32	0.35	0.22				mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	0.12	0.45	<0.04	<0.04				mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	2.77	12.8	0.71	0.39				mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.14	0.84	0.03	<0.01				mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.71	2.28	0.18	0.10				mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.06	0.29	0.11	<0.03				mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	1.40	8.72	0.39	0.18				mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	2.23	11.8	0.62	0.35				mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	14.3	63.4	3.74	2.05				mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/16	23/11847/17	23/11847/18	23/11847/19				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS110	WS110	WS114	WS114						
Depth to Top	0.3	1.0	0.6	0.3						
Depth To Bottom	0.6	1.6	0.9	0.6						
Date Sampled	29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6ABE	4ABE	6A	6A						
TPH CWG 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	2	<1	<1				mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	4	<1	<1				mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	22	25	9	6				mg/kg	1	A-T-055s
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$_A$	<3	<3	<3	<3				mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	2	<1	<1				mg/kg	1	A-T-055s
Aro >C12-C16$_A$	9	14	<1	<1				mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	29	74	5	4				mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	96	269	20	12				mg/kg	1	A-T-055s
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

Envirolab Job Number: 23/11847

Client Project Name: Cheetham Hill

Client Project Ref: 33716LG

Lab Sample ID	23/11847/16	23/11847/17	23/11847/18	23/11847/19				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS110	WS110	WS114	WS114						
Depth to Top	0.3	1.0	0.6	0.3						
Depth To Bottom	0.6	1.6	0.9	0.6						
Date Sampled	29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6ABE	4ABE	6A	6A						
TPH UKCWG with Clean Up										
Ali >C35-C44$_A$	4	7	<1	<1				mg/kg	1	A-T-055s
Total Aliphatics$_A$	28	38	9	6				mg/kg	1	Calc-As Recd
Aro >C35-C44$_A$	3	7	<1	<1				mg/kg	1	A-T-055s
Total Aromatics$_A$	138	367	25	15				mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C44)$_A$	165	406	34	22				mg/kg	1	Calc-As Recd

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

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

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

Project No: 23/11847

Date Received: 30/11/2023 (am)

Project: Cheetham Hill

Cool Box Temperatures (°C): 5.5-6.3

Clients Project No: 33716LG

Lab Sample ID	23/11847/1	23/11847/2	23/11847/4	23/11847/5	23/11847/6
Client Sample No					
Client Sample ID/Depth	WS116 0.0-0.2m	WS115 0.2-0.75m	WS113 0.5-1.0m	WS112 0.3-0.6m	WS111 0.3-0.6m
Date Sampled	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23
Deviation Code					
F	✓	✓	✓	✓	✓

Key

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

HOLDING TIME EXCEEDANCES

Lab Sample ID	23/11847/1	23/11847/2	23/11847/4	23/11847/5	23/11847/6
Client Sample No					
Client Sample ID/Depth	WS116 0.0-0.2m	WS115 0.2-0.75m	WS113 0.5-1.0m	WS112 0.3-0.6m	WS111 0.3-0.6m
Date Sampled	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23
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	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12
Client Sample No												
Client Sample ID/Depth	WS116 0.0-0.2m	WS115 0.2-0.75m	WS115 0.8-1.2m	WS113 0.5-1.0m	WS112 0.3-0.6m	WS111 0.3-0.6m	ws108 0.0-0.4m	WS109 0.4-1.0m	WS109 1.0-1.3m	WS107 0.0-0.4m	WS106 0.4-0.8m	WS105 0.4-0.8m
Date Sampled	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23
A-T-004s												
A-T-006s			08/12/2023						08/12/2023			
A-T-007s												
A-T-019s	07/12/2023	07/12/2023		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023		07/12/2023	07/12/2023	07/12/2023
A-T-022s	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
A-T-024s	08/12/2023	08/12/2023		08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023		08/12/2023	07/12/2023	07/12/2023
A-T-025w												
A-T-026s	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-026w												
A-T-026w (F)												
A-T-027s	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-028s	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-029s	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-030s												
A-T-031s	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	06/12/2023
A-T-031w												
A-T-032s	07/12/2023	07/12/2023		07/12/2023	08/12/2023	08/12/2023	11/12/2023	08/12/2023		08/12/2023	08/12/2023	08/12/2023
A-T-032w												
A-T-037s			06/12/2023						06/12/2023			
A-T-037w												
A-T-040s	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-042sTCN	05/12/2023	05/12/2023		05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023		05/12/2023	05/12/2023	05/12/2023
A-T-043-s	07/12/2023	07/12/2023		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023		07/12/2023	07/12/2023	07/12/2023
A-T-044	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	06/12/2023
A-T-045	01/12/2023	01/12/2023		01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023		01/12/2023	01/12/2023	01/12/2023
A-T-050s	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-050w												
A-T-052s			04/12/2023						04/12/2023			
A-T-055s	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
A-T-ANCs												
Calc	08/12/2023	08/12/2023		08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023		08/12/2023	07/12/2023	07/12/2023
Calc-As Recd	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023

Lab Sample ID	23/11847/1	23/11847/2	23/11847/3	23/11847/4	23/11847/5	23/11847/6	23/11847/7	23/11847/8	23/11847/9	23/11847/10	23/11847/11	23/11847/12
Client Sample No												
Client Sample ID/Depth	WS116 0.0-0.2m	WS115 0.2-0.75m	WS115 0.8-1.2m	WS113 0.5-1.0m	WS112 0.3-0.6m	WS111 0.3-0.6m	ws108 0.0-0.4m	WS109 0.4-1.0m	WS109 1.0-1.3m	WS107 0.0-0.4m	WS106 0.4-0.8m	WS105 0.4-0.8m
Date Sampled	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23	27/11/23	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23
Calc-no stones												
Probe (w)												
Redox			06/12/2023						06/12/2023			

Lab Sample ID	23/11847/13	23/11847/14	23/11847/16	23/11847/17	23/11847/18	23/11847/19
Client Sample No						
Client Sample ID/Depth	WS105A 1.0-1.3m	WS104 0.0-0.4m	WS110 0.3-0.6m	WS110 1.0-1.6m	WS114 0.6-0.9m	WS114 0.3-0.6m
Date Sampled	28/11/23	29/11/23	29/11/23	29/11/23	29/11/23	29/11/23
A-T-004s		05/12/2023				
A-T-006s	08/12/2023					
A-T-007s		08/12/2023				
A-T-019s		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
A-T-022s	08/12/2023	08/12/2023	07/12/2023	08/12/2023	08/12/2023	08/12/2023
A-T-024s		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
A-T-025w		11/12/2023				
A-T-026s		06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-026w		11/12/2023				
A-T-026w (F)		11/12/2023				
A-T-027s		06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-028s		06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-029s		06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-030s		05/12/2023				
A-T-031s	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-031w		11/12/2023				
A-T-032s		08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
A-T-032w		11/12/2023				
A-T-037s	06/12/2023					
A-T-037w		11/12/2023				
A-T-040s		06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-042sTCN		05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
A-T-043-s		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
A-T-044	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
A-T-045		01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
A-T-050s		11/12/2023	11/12/2023	11/12/2023	11/12/2023	11/12/2023
A-T-050w		11/12/2023				
A-T-052s	04/12/2023					
A-T-055s	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
A-T-ANCs		06/12/2023				
Calc		07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
Calc-As Recd	08/12/2023	08/12/2023	07/12/2023	08/12/2023	08/12/2023	08/12/2023
Calc-no stones		11/12/2023				
Probe (w)		11/12/2023				

Lab Sample ID	23/11847/13	23/11847/14	23/11847/16	23/11847/17	23/11847/18	23/11847/19
Client Sample No						
Client Sample ID/Depth	WS105A 1.0-1.3m	WS104 0.0-0.4m	WS110 0.3-0.6m	WS110 1.0-1.6m	WS114 0.6-0.9m	WS114 0.3-0.6m
Date Sampled	28/11/23	29/11/23	29/11/23	29/11/23	29/11/23	29/11/23
Redox	06/12/2023					

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

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

Final Test Report

Envirolab Job Number:	23/11847
Issue Number:	1
Date:	11-Dec-23
Client:	Sutcliffe 18-20 Harrington Street Liverpool L2 9QA Coventry CV3 4LJ
Project Manager:	(Use) D Evans; D Bowen; A Tosh; W Baldwin/(Use) Sa
Project Name:	Cheetham Hill
Project Ref:	33716LG
Order No:	10089
Date Samples Received:	29-Nov-23
Date Instructions Received:	30-Nov-23
Date Analysis Completed:	11-Dec-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

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

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/11847/14				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample Number										
Client Sample ID				WS104						
Depth to Top				0						
Depth to Bottom				0.40						
Date Sampled				29/11/2023						
Sample Type				Soil						
Sample Matrix Code				6AE						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	N	N	**6.94**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.02**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**<0.01**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**2.9**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.75**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**0.52**				100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**				500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.045	0.040	0.103	**0.420**	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.005	0.004	0.011	**0.040**	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.003	0.007	0.007	**0.070**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.010	0.017	0.023	**0.170**	4	50	200
Chloride	A-T-026	N	N	5	2	12	**22**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	0.2	0.8	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	5	4	**50**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	85	26	194	**335**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.4	7.3					
Conductivity (µS/cm)	A-T-037	N	N	171	52					
Mass Sample (kg)				0.225						
Dry Matter (%)	A-T-044	N	N	77.7						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.400						

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

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

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/12007
Issue Number: 1 **Date:** 21 December, 2023

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 Hill, Manchester
Project Ref: 33716LG
Order No: 10120
Date Samples Received: 04/12/23
Date Instructions Received: 05/12/23
Date Analysis Completed: 21/12/23

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

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			
Hazardous Waste Assessment	-	Appended	-	Appended	Appended	-	-			Assessment
% Moisture at <40C$_A$	17.4	12.0	11.8	18.2	13.9	16.1	16.2	% w/w	0.1	A-T-044
% Stones >10mm$_A$	25.4	<0.1	36.3	1.7	46.4	17.5	19.1	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.59	7.63	8.35	8.22	8.56	8.03	8.37	pH	0.01	A-T-031s
Sulphate (water sol 2:1)$_D$$^{M\#}$	0.05	0.01	<0.01	-	0.04	0.02	0.03	g/l	0.01	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	1600	<200	370	-	1400	640	890	mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	mg/kg	0.2	A-T-050s
Sulphide$_A$	70	110	52	-	62	66	57	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	10	<5	38	-	8	50	12	mg/kg	5	A-T-029s
Organic Matter$_D$$^{M\#}$	4.3	8.2	3.5	-	3.6	6.4	4.0	% w/w	0.1	A-T-032s
Arsenic$_D$$^{M\#}$	6	3	6	10	4	7	6	mg/kg	1	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	1.0	1.0	0.8	1.1	0.5	1.0	1.0	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	37	27	30	36	19	38	32	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	21	25	22	21	15	17	20	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Chromium (trivalent)	21	25	22	-	15	17	20	mg/kg	1	Calc
Lead$_D$$^{M\#}$	62	43	87	123	28	106	106	mg/kg	1	A-T-024s
Mercury$_D$	0.61	<0.17	0.40	0.26	0.54	0.53	0.54	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	19	30	16	21	14	17	17	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	160	59	92	136	96	92	123	mg/kg	5	A-T-024s