Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755608	755609	755610	755611	755612	755613	755614	755615	755616
					Client Sample ID.:	1	3	1	1	2	3	5	1	2
					Sample Location:	TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:	COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0										
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0										
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0										
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0										
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0										
Dichlorodifluoromethane	U	2760	µg/kg	1.0										
Chloromethane	M	2760	µg/kg	1.0										
Vinyl Chloride	M	2760	µg/kg	1.0										
Bromomethane	M	2760	µg/kg	20										
Chloroethane	U	2760	µg/kg	2.0										
Trichlorofluoromethane	M	2760	µg/kg	1.0										
1,1-Dichloroethene	M	2760	µg/kg	1.0										
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0										
1,1-Dichloroethane	M	2760	µg/kg	1.0										
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0										
Bromochloromethane	U	2760	µg/kg	5.0										
Trichloromethane	M	2760	µg/kg	1.0										
1,1,1-Trichloroethane	M	2760	µg/kg	1.0										
Tetrachloromethane	M	2760	µg/kg	1.0										
1,1-Dichloropropene	U	2760	µg/kg	1.0										
Benzene	M	2760	µg/kg	1.0										
1,2-Dichloroethane	M	2760	µg/kg	2.0										
Trichloroethene	N	2760	µg/kg	1.0										
1,2-Dichloropropane	M	2760	µg/kg	1.0										
Dibromomethane	M	2760	µg/kg	1.0										
Bromodichloromethane	M	2760	µg/kg	5.0										
cis-1,3-Dichloropropene	N	2760	µg/kg	10										
Toluene	M	2760	µg/kg	1.0										
Trans-1,3-Dichloropropene	N	2760	µg/kg	10										
1,1,2-Trichloroethane	M	2760	µg/kg	10										
Tetrachloroethene	M	2760	µg/kg	1.0										
1,3-Dichloropropane	U	2760	µg/kg	2.0										
Dibromochloromethane	U	2760	µg/kg	10										
1,2-Dibromoethane	M	2760	µg/kg	5.0										
Chlorobenzene	M	2760	µg/kg	1.0										
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0										
Ethylbenzene	M	2760	µg/kg	1.0										
m & p-Xylene	M	2760	µg/kg	1.0										

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Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755608	755609	755610	755611	755612	755613	755614	755615	755616
					Client Sample ID.:	1	3	1	1	2	3	5	1	2
					Sample Location:	TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:	COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
o-Xylene	M	2760	µg/kg	1.0										
Styrene	M	2760	µg/kg	1.0										
Tribromomethane	U	2760	µg/kg	1.0										
Isopropylbenzene	M	2760	µg/kg	1.0										
Bromobenzene	M	2760	µg/kg	1.0										
1,2,3-Trichloropropane	N	2760	µg/kg	50										
N-Propylbenzene	U	2760	µg/kg	1.0										
2-Chlorotoluene	M	2760	µg/kg	1.0										
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0										
4-Chlorotoluene	U	2760	µg/kg	1.0										
Tert-Butylbenzene	U	2760	µg/kg	1.0										
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0										
Sec-Butylbenzene	U	2760	µg/kg	1.0										
1,3-Dichlorobenzene	M	2760	µg/kg	1.0										
4-Isopropyltoluene	U	2760	µg/kg	1.0										
1,4-Dichlorobenzene	M	2760	µg/kg	1.0										
N-Butylbenzene	U	2760	µg/kg	1.0										
1,2-Dichlorobenzene	M	2760	µg/kg	1.0										
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50										
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0										
Hexachlorobutadiene	U	2760	µg/kg	1.0										
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0										
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0										
N-Nitrosodimethylamine	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Phenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Chlorophenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50					< 0.50				< 0.50	
1,3-Dichlorobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.50					< 0.50				< 0.50	
1,2-Dichlorobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Methylphenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Hexachloroethane	N	2790	mg/kg	0.50					< 0.50				< 0.50	
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Methylphenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Nitrobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Isophorone	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Nitrophenol	N	2790	mg/kg	0.50					< 0.50				< 0.50	

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Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755608	755609	755610	755611	755612	755613	755614	755615	755616
					Client Sample ID.:	1	3	1	1	2	3	5	1	2
					Sample Location:	TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:	COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
2,4-Dimethylphenol	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2,4-Dichlorophenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Naphthalene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Hexachlorobutadiene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Methylnaphthalene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50					< 0.50				< 0.50	
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Chloronaphthalene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Nitroaniline	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Acenaphthylene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Dimethylphthalate	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2,6-Dinitrotoluene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Acenaphthene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Dibenzofuran	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Chlorophenylphenylether	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2,4-Dinitrotoluene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Fluorene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Diethyl Phthalate	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Nitroaniline	M	2790	mg/kg	0.50					< 0.50				< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Azobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Hexachlorobenzene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Phenanthrene	M	2790	mg/kg	0.50					1.6				< 0.50	
Anthracene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Carbazole	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Fluoranthene	M	2790	mg/kg	0.50					3.7				< 0.50	
Pyrene	M	2790	mg/kg	0.50					3.5				< 0.50	
Butylbenzyl Phthalate	M	2790	mg/kg	0.50					< 0.50				< 0.50	

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Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755608	755609	755610	755611	755612	755613	755614	755615	755616
					Client Sample ID.:	1	3	1	1	2	3	5	1	2
					Sample Location:	TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:	COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Benzo[a]anthracene	M	2790	mg/kg	0.50					2.6				< 0.50	
Chrysene	M	2790	mg/kg	0.50					2.2				< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50					< 0.50				< 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Benzo[b]fluoranthene	M	2790	mg/kg	0.50					2.9				< 0.50	
Benzo[k]fluoranthene	M	2790	mg/kg	0.50					1.2				< 0.50	
Benzo[a]pyrene	M	2790	mg/kg	0.50					2.2				< 0.50	
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50					1.3				< 0.50	
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50					< 0.50				< 0.50	
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50					1.3				< 0.50	
Phenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2-Methylphenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
3-Methylphenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
4-Methylphenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20					< 0.20	< 0.20	< 0.20			< 0.20
Total Phenols	N	2900	mg/kg	5.00					< 5.0	< 5.0	< 5.0			< 5.0
Arsenic	M	2450	mg/kg	1.0	17		18	920	93			77	70	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.99		0.62	1.0	1.5			1.6	1.5	
Cadmium	M	2450	mg/kg	0.10	0.37		0.90	11	0.67			1.3	0.32	
Chromium	M	2450	mg/kg	1.0	15		130	24	13			120	70	

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Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755608	755609	755610	755611	755612	755613	755614	755615	755616
					Client Sample ID.:	1	3	1	1	2	3	5	1	2
					Sample Location:	TP434	TP434	TP435	TP436	TP436	TP436	TP436	TP437	TP437
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	2.90	0.10	0.10	0.90	1.40	3.20	0.10	0.40
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:	COVENTRY		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Chromium (Trivalent)	N	2490	mg/kg	1.0		15		130	24	13			120	70
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50		52		72	390	31			160	110
Lead	M	2450	mg/kg	0.50		120		180	730	77			530	1500
Mercury	M	2450	mg/kg	0.10		0.19		0.98	0.18	< 0.10			0.13	0.13
Nickel	M	2450	mg/kg	0.50		33		43	64	30			50	65
Selenium	M	2450	mg/kg	0.20		0.34		0.54	3.5	0.63			0.93	1.3
Zinc	M	2450	mg/kg	0.50		140		300	320	65			110	77

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Client: Lithos Consulting				Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:				Chemtest Sample ID.:	755617	755618	755619	755620	755621	755622	755623	755624	755625
				Client Sample ID.:	4	5	1	2	3	4	1	2	3
				Sample Location:	TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
				Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
				Asbestos Lab:							COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A							-		
Asbestos Identification	U	2192	%	0.001							No Asbestos Detected		
ACM Detection Stage	U	2192		N/A							-		
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	16	29	16	25	24	21	19	15	< 0.020
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand
pH	M	2010		N/A							7.7		
Magnesium (Water Soluble)	N	2120	g/l	0.010							0.010		
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010							0.26		
Total Sulphur	M	2175	%	0.010	2.7	3.4	0.26	0.50	0.77	0.38	0.64	1.4	2.3
Chloride (Water Soluble)	M	2220	g/l	0.010							0.018		
Nitrate (Water Soluble)	N	2220	g/l	0.010							< 0.010		
Cyanide (Total)	M	2300	mg/kg	0.50	0.70	< 0.50	2.0	1.7	17	1.3	0.80	0.60	0.50
Vanadium	U	2450	mg/kg	5.0							52		
Total Organic Carbon	M	2625	%	0.20							12		
TPH >C6-C10	N	2670	mg/kg	1.0							< 1.0		
TPH >C10-C21	N	2670	mg/kg	1.0							57		
TPH >C21-C40	N	2670	mg/kg	1.0							160		
Total TPH >C6-C40	M	2670	mg/kg	10							220		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755617	755618	755619	755620	755621	755622	755623	755624	755625
					Client Sample ID.:	4	5	1	2	3	4	1	2	3
					Sample Location:	TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:							COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0										
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0										
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0										
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0										
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0										
Dichlorodifluoromethane	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	M	2760	µg/kg	20			< 20	< 20	< 20	< 20	< 20	< 20	< 20	
Chloroethane	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromochloromethane	U	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Trichloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Trichloroethene	N	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	M	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Toluene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Tetrachloroethene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromochloromethane	U	2760	µg/kg	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	
1,2-Dibromoethane	M	2760	µg/kg	5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Chlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Ethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755617	755618	755619	755620	755621	755622	755623	755624	755625
					Client Sample ID.:	4	5	1	2	3	4	1	2	3
					Sample Location:	TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:							COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
o-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
N-Propylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Sec-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Butylbenzene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50			< 50	< 50	< 50	< 50	< 50	< 50	< 50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Nitrosodimethylamine	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachloroethane	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50	< 0.50	
Nitrobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Isophorone	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755617	755618	755619	755620	755621	755622	755623	755624	755625
					Client Sample ID.:	4	5	1	2	3	4	1	2	3
					Sample Location:	TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:							COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
2,4-Dimethylphenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	0.68	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50			4.7	4.0	33	29	< 0.50	0.68	5.5
4-Chloroaniline	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50			1.9	3.2	9.4	12	< 0.50	< 0.50	2.2
4-Nitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50			1.9	< 0.50	< 0.50	11	< 0.50	< 0.50	2.0
Dimethylphthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50			2.4	3.3	4.7	9.6	< 0.50	< 0.50	2.1
3-Nitroaniline	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50			1.7	4.6	6.4	11	< 0.50	< 0.50	1.9
4-Chlorophenylphenylether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	1.8	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50			1.7	2.7	< 0.50	8.9	< 0.50	< 0.50	1.6
Diethyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50			13	36	34	45	0.88	6.0	14
Anthracene	M	2790	mg/kg	0.50			3.6	6.4	6.7	14	< 0.50	1.7	2.9
Carbazole	M	2790	mg/kg	0.50			1.7	2.1	4.1	7.8	< 0.50	0.80	1.9
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50			16	36	33	40	1.5	10	13
Pyrene	M	2790	mg/kg	0.50			13	23	22	30	1.2	7.3	10
Butylbenzyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755617	755618	755619	755620	755621	755622	755623	755624	755625
					Client Sample ID.:	4	5	1	2	3	4	1	2	3
					Sample Location:	TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:							COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Benzo[a]anthracene	M	2790	mg/kg	0.50			7.7	16	12	21	0.81	5.6	6.6	
Chrysene	M	2790	mg/kg	0.50			6.9	17	13	20	0.87	4.8	6.7	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzo[b]fluoranthene	M	2790	mg/kg	0.50			7.8	20	14	23	1.2	6.4	6.5	
Benzo[k]fluoranthene	M	2790	mg/kg	0.50			3.4	7.2	5.4	9.8	< 0.50	2.7	2.4	
Benzo[a]pyrene	M	2790	mg/kg	0.50			5.9	7.0	7.1	13	0.78	3.8	4.1	
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50			3.2	5.9	< 0.50	7.6	< 0.50	2.7	2.3	
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50			0.99	2.3	< 0.50	2.9	< 0.50	0.86	0.82	
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50			3.1	4.7	< 0.50	7.2	< 0.50	2.7	2.3	
Phenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.9	< 0.20	< 0.20	< 0.20	< 0.20	
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.7	< 0.20	< 0.20	< 0.20	< 0.20	
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.0	< 0.20	< 0.20	< 0.20	< 0.20	
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.68	< 0.20	< 0.20	< 0.20	< 0.20	
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Total Phenols	N	2900	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0	8.3	< 5.0	< 5.0	< 5.0	< 5.0	
Arsenic	M	2450	mg/kg	1.0							47			
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40							1.2			
Cadmium	M	2450	mg/kg	0.10							0.58			
Chromium	M	2450	mg/kg	1.0							110			

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:			**Chemtest Sample ID.:**		755617	755618	755619	755620	755621	755622	755623	755624	755625
			Client Sample ID.:		4	5	1	2	3	4	1	2	3
			Sample Location:		TP437	TP437	TP438	TP438	TP438	TP438	TP439	TP439	TP439
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	3.60	0.10	1.80	2.80	3.60	0.10	2.00	2.80
			Date Sampled:		14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
			Asbestos Lab:								COVENTRY		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Chromium (Trivalent)	N	2490	mg/kg	1.0							110		
Chromium (Hexavalent)	N	2490	mg/kg	0.50							< 0.50		
Copper	M	2450	mg/kg	0.50							110		
Lead	M	2450	mg/kg	0.50							560		
Mercury	M	2450	mg/kg	0.10							0.23		
Nickel	M	2450	mg/kg	0.50							50		
Selenium	M	2450	mg/kg	0.20							1.1		
Zinc	M	2450	mg/kg	0.50							250		

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Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting													
Quotation No.:				Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
				Chemtest Sample ID.:	755626	755627	755628	755629	755630	755631	755632	755633	755634
				Client Sample ID.:	4	1	2	3	4	1	2	3	4
				Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
				Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
				Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A		-				-			
Asbestos Identification	U	2192	%	0.001		No Asbestos Detected				No Asbestos Detected			
ACM Detection Stage	U	2192		N/A		-				-			
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	15	14	22	39	13	20	34	22	24
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A		9.4			4.3	7.5			
Magnesium (Water Soluble)	N	2120	g/l	0.010		< 0.010			0.018	< 0.010			
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		0.67			1.0	1.4			
Total Sulphur	M	2175	%	0.010	0.98	0.61	2.8	0.74		1.4	3.3	2.1	0.49
Chloride (Water Soluble)	M	2220	g/l	0.010		0.023			< 0.010	< 0.010			
Nitrate (Water Soluble)	N	2220	g/l	0.010		< 0.010			< 0.010	< 0.010			
Cyanide (Total)	M	2300	mg/kg	0.50	1.5	1.3	4.8	0.70		1.9	0.70	< 0.50	0.90
Vanadium	U	2450	mg/kg	5.0		38				66			
Total Organic Carbon	M	2625	%	0.20	0.59	5.5	16	1.7		6.2	19	1.1	1.8
TPH >C6-C10	N	2670	mg/kg	1.0						< 1.0			
TPH >C10-C21	N	2670	mg/kg	1.0						21			
TPH >C21-C40	N	2670	mg/kg	1.0						54			
Total TPH >C6-C40	M	2670	mg/kg	10						75			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		2.1	3.2	< 1.0					
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		5.1	5.0	< 1.0					
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		30	28	< 1.0					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		37	37	< 5.0					
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0					
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		1.1	1.2	< 1.0					
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		4.3	8.1	< 1.0					

Chemtest
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Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755626	755627	755628	755629	755630	755631	755632	755633	755634
					Client Sample ID.:	4	1	2	3	4	1	2	3	4
					Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		37	54	< 1.0						
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		230	180	< 1.0						
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		9.2	< 1.0	< 1.0						
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		280	240	< 5.0						
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		320	280	< 10						
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Chloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20						
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Trichloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Dibromomethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0						
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10						
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10						
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10						
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10						
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0						

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755626	755627	755628	755629	755630	755631	755632	755633	755634
					Client Sample ID.:	4	1	2	3	4	1	2	3	4
					Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
o-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Styrene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Tribromomethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Bromobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50	< 50	< 50	< 50					
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50	< 50	< 50	< 50					
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0	< 2.0					
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0					
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Phenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Hexachloroethane	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
4-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Nitrobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Isophorone	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755626	755627	755628	755629	755630	755631	755632	755633	755634
					Client Sample ID.:	4	1	2	3	4	1	2	3	4
					Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
2,4-Dimethylphenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Naphthalene	M	2790	mg/kg	0.50		< 0.50	0.65	2.3	< 0.50		< 0.50			0.78
4-Chloroaniline	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50		< 0.50	0.63	1.9	< 0.50		< 0.50			< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Acenaphthylene	M	2790	mg/kg	0.50		< 0.50	1.0	3.7	< 0.50		< 0.50			< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Acenaphthene	M	2790	mg/kg	0.50		< 0.50	1.3	4.5	< 0.50		< 0.50			< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Dibenzofuran	M	2790	mg/kg	0.50		< 0.50	0.74	2.6	< 0.50		< 0.50			< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Fluorene	M	2790	mg/kg	0.50		< 0.50	0.76	2.4	< 0.50		< 0.50			< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Azobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Phenanthrene	M	2790	mg/kg	0.50		< 0.50	8.2	21	< 0.50		< 0.50			1.2
Anthracene	M	2790	mg/kg	0.50		< 0.50	2.4	5.4	< 0.50		< 0.50			< 0.50
Carbazole	M	2790	mg/kg	0.50		< 0.50	0.90	2.8	< 0.50		< 0.50			< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Fluoranthene	M	2790	mg/kg	0.50		< 0.50	11	22	< 0.50		< 0.50			1.6
Pyrene	M	2790	mg/kg	0.50		< 0.50	9.7	18	< 0.50		< 0.50			1.6
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755626	755627	755628	755629	755630	755631	755632	755633	755634
					Client Sample ID.:	4	1	2	3	4	1	2	3	4
					Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Benzo[a]anthracene	M	2790	mg/kg	0.50		< 0.50	6.4	11	< 0.50		< 0.50			0.85
Chrysene	M	2790	mg/kg	0.50		< 0.50	6.4	11	< 0.50		< 0.50			0.89
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50			< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		< 0.50	8.1	12	< 0.50		< 0.50			0.88
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		< 0.50	3.2	4.9	< 0.50		< 0.50			< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50		< 0.50	5.3	9.0	< 0.50		< 0.50			< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		< 0.50	3.2	4.8	< 0.50		< 0.50			< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		< 0.50	0.97	1.7	< 0.50		< 0.50			< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		< 0.50	3.6	5.1	< 0.50		< 0.50			< 0.50
Phenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00		< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	M	2450	mg/kg	1.0			180				270			
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40			0.63				0.69			
Cadmium	M	2450	mg/kg	0.10			0.77				0.70			
Chromium	M	2450	mg/kg	1.0			28				37			

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755626	755627	755628	755629	755630	755631	755632	755633	755634
					Client Sample ID.:	4	1	2	3	4	1	2	3	4
					Sample Location:	TP439	TP440	TP440	TP440	TP440	TP441	TP441	TP441	TP441
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.90	0.10	2.00	2.70	3.50	0.10	1.90	3.00	3.90
					Date Sampled:	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019	14-Jan-2019
					Asbestos Lab:		COVENTRY				COVENTRY			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Chromium (Trivalent)	N	2490	mg/kg	1.0		28					37			
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50					< 0.50			
Copper	M	2450	mg/kg	0.50		76					100			
Lead	M	2450	mg/kg	0.50		640					560			
Mercury	M	2450	mg/kg	0.10		0.70					1.0			
Nickel	M	2450	mg/kg	0.50		38					45			
Selenium	M	2450	mg/kg	0.20		1.1					1.6			
Zinc	M	2450	mg/kg	0.50		130					150			

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting				Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:				Chemtest Sample ID.:	755635	755636	755637	755638	755640	755641	755642	755643	755644
				Client Sample ID.:	1	2	3	5	2	1	3	4	1
				Sample Location:	TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
				Date Sampled:	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
				Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-				-	-			-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected				No Asbestos Detected	No Asbestos Detected			No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-				-	-			-
Asbestos by Gravimetry	U	2192	%	0.001									
Total Asbestos	N	2192	%	0.001									
Moisture	N	2030	%	0.020	19	25	14	13	18	15	22	29	17
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A	7.9			7.6	7.3	7.9			6.0
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010				< 0.010	0.012			< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.58			0.52	1.2	0.54			0.24
Total Sulphur	M	2175	%	0.010	0.43	3.5	0.041		0.94	0.43	0.58	0.034	
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010				< 0.010	< 0.010			< 0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010				< 0.010	< 0.010			< 0.010
Cyanide (Total)	M	2300	mg/kg	0.50	1.5	< 0.50	< 0.50		0.80	1.2	0.90	< 0.50	
Vanadium	U	2450	mg/kg	5.0	44				95	37			35
Total Organic Carbon	M	2625	%	0.20	10	5.8	0.56		23	4.8	12	0.75	4.9
TPH >C6-C10	N	2670	mg/kg	1.0					< 1.0				< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0					50				45
TPH >C21-C40	N	2670	mg/kg	1.0					340				49
Total TPH >C6-C40	M	2670	mg/kg	10					390				94
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	7.1	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	12	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	2.4	2.6	< 1.0			< 1.0	15	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	5.5	6.5	< 1.0			1.6	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	29	28	< 1.0			18	920	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	37	37	< 5.0			20	960	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	1.6	1.3	< 1.0			1.3	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	10	6.8	< 1.0			2.1	11	< 1.0	

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755635	755636	755637	755638	755640	755641	755642	755643	755644
					Client Sample ID.:	1	2	3	5	2	1	3	4	1
					Sample Location:	TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
					Date Sampled:	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
					Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		69	35	< 1.0			14	550	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		530	160	< 1.0			78	700	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		77	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		690	200	< 5.0			95	1300	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		720	240	< 10			110	2200	< 10	
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Chloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Bromomethane	M	2760	µg/kg	20		< 20	< 20	< 20			< 20	< 20	< 20	
Chloroethane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	
Trichloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Benzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	
Trichloroethene	N	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Dibromomethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10			< 10	< 10	< 10	
Toluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10			< 10	< 10	< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10	< 10	< 10			< 10	< 10	< 10	
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	
Dibromochloromethane	U	2760	µg/kg	10		< 10	< 10	< 10			< 10	< 10	< 10	
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					755635	755636	755637	755638	755640	755641	755642	755643	755644
					1	2	3	5	2	1	3	4	1
					TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
					15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
					COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Styrene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Bromobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50			< 50	< 50	< 50	
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50			< 50	< 50	< 50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755635	755636	755637	755638	755640	755641	755642	755643	755644
					Client Sample ID.:	1	2	3	5	2	1	3	4	1
					Sample Location:	TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
					Date Sampled:	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
					Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
2,4-Dimethylphenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50		< 0.50	1.6	< 0.50			< 0.50	< 0.50	< 0.50	5.2
4-Chloroaniline	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50		< 0.50	0.91	< 0.50			< 0.50	< 0.50	< 0.50	3.6
4-Nitrophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50		0.73	2.6	< 0.50			< 0.50	< 0.50	< 0.50	3.3
Dimethylphthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50		0.81	3.4	< 0.50			< 0.50	< 0.50	< 0.50	3.5
3-Nitroaniline	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50		< 0.50	2.3	< 0.50			< 0.50	< 0.50	< 0.50	6.3
4-Chlorophenylphenylether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50		0.62	2.4	< 0.50			< 0.50	< 0.50	< 0.50	2.2
Diethyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	4.8
Azobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50		8.2	12	< 0.50			3.3	0.74	< 0.50	34
Anthracene	M	2790	mg/kg	0.50		2.2	3.2	< 0.50			0.87	< 0.50	< 0.50	6.9
Carbazole	M	2790	mg/kg	0.50		1.4	1.3	< 0.50			< 0.50	< 0.50	< 0.50	2.9
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50		12	12	< 0.50			5.3	1.3	< 0.50	35
Pyrene	M	2790	mg/kg	0.50		10	9.4	< 0.50			4.5	1.2	< 0.50	28
Butylbenzyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					Chemtest Job No.:	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					Chemtest Sample ID.:	755635	755636	755637	755638	755640	755641	755642	755643	755644
					Client Sample ID.:	1	2	3	5	2	1	3	4	1
					Sample Location:	TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
					Date Sampled:	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
					Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Benzo[a]anthracene	M	2790	mg/kg	0.50		6.8	5.2	< 0.50			3.0	0.65	< 0.50	14
Chrysene	M	2790	mg/kg	0.50		6.8	4.7	< 0.50			2.8	0.72	< 0.50	13
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50		7.9	4.7	< 0.50			2.8	< 0.50	< 0.50	23
Benzo[k]fluoranthene	M	2790	mg/kg	0.50		3.2	2.2	< 0.50			1.5	< 0.50	< 0.50	9.0
Benzo[a]pyrene	M	2790	mg/kg	0.50		6.6	3.6	< 0.50			2.6	< 0.50	< 0.50	8.4
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50		3.1	1.7	< 0.50			1.4	< 0.50	< 0.50	8.9
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50		1.0	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	2.8
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50		3.6	2.0	< 0.50			1.5	< 0.50	< 0.50	9.3
Phenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20		< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00		< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	M	2450	mg/kg	1.0		46				72	110			52
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40		1.8				0.68	0.46			0.73
Cadmium	M	2450	mg/kg	0.10		0.36				0.57	0.23			0.31
Chromium	M	2450	mg/kg	1.0		25				47	22			25

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615	19-01615
Quotation No.:					**Chemtest Sample ID.:**	755635	755636	755637	755638	755640	755641	755642	755643	755644
					Client Sample ID.:	1	2	3	5	2	1	3	4	1
					Sample Location:	TP442	TP442	TP442	TP442	TP443	TP444	TP444	TP444	TP446
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.10	1.00	1.50	3.10	0.80	0.10	1.50	2.40	0.30
					Date Sampled:	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019	15-Jan-2019
					Asbestos Lab:	COVENTRY				COVENTRY	COVENTRY			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Chromium (Trivalent)	N	2490	mg/kg	1.0		25				47	22			25
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50				< 0.50	< 0.50			< 0.50
Copper	M	2450	mg/kg	0.50		58				82	56			43
Lead	M	2450	mg/kg	0.50		140				840	340			86
Mercury	M	2450	mg/kg	0.10		0.17				0.26	0.59			< 0.10
Nickel	M	2450	mg/kg	0.50		31				47	37			16
Selenium	M	2450	mg/kg	0.20		0.37				0.98	1.2			0.63
Zinc	M	2450	mg/kg	0.50		68				91	94			49

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type	U	2192		N/A	
Asbestos Identification	U	2192	%	0.001	
ACM Detection Stage	U	2192		N/A	
Asbestos by Gravimetry	U	2192	%	0.001	
Total Asbestos	N	2192	%	0.001	
Moisture	N	2030	%	0.020	17
Soil Colour	N	2040		N/A	Brown,
Other Material	N	2040		N/A	Stones,
Soil Texture	N	2040		N/A	Sand,
pH	M	2010		N/A	
Magnesium (Water Soluble)	N	2120	g/l	0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	
Total Sulphur	M	2175	%	0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	
Cyanide (Total)	M	2300	mg/kg	0.50	
Vanadium	U	2450	mg/kg	5.0	
Total Organic Carbon	M	2625	%	0.20	0.84
TPH >C6-C10	N	2670	mg/kg	1.0	
TPH >C10-C21	N	2670	mg/kg	1.0	
TPH >C21-C40	N	2670	mg/kg	1.0	
Total TPH >C6-C40	M	2670	mg/kg	10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0
Chloromethane	M	2760	µg/kg	1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0
Benzene	M	2760	µg/kg	1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
Toluene	M	2760	µg/kg	1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Styrene	M	2760	µg/kg	1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0
Bromobenzene	M	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50
Anthracene	M	2790	mg/kg	0.50	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	< 0.50
Pyrene	M	2790	mg/kg	0.50	< 0.50
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Benzo[a]anthracene	M	2790	mg/kg	0.50	< 0.50
Chrysene	M	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	< 0.50
Phenol	N	2900	mg/kg	0.20	< 0.20
2-Chlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Methylphenol	N	2900	mg/kg	0.20	< 0.20
3-Methylphenol	N	2900	mg/kg	0.20	< 0.20
4-Methylphenol	N	2900	mg/kg	0.20	< 0.20
2-Nitrophenol	N	2900	mg/kg	0.20	< 0.20
2,4-Dimethylphenol	N	2900	mg/kg	0.20	< 0.20
2,4-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,6-Dichlorophenol	N	2900	mg/kg	0.20	< 0.20
4-Chloro-3-Methylphenol	N	2900	mg/kg	0.20	< 0.20
2,3,4-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,4,6-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
4-Nitrophenol	N	2900	mg/kg	0.20	< 0.20
2,3,4,5-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,4,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
2,3,5,6-Tetrachlorophenol	N	2900	mg/kg	0.20	< 0.20
3,4,5-Trichlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Methyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20
Pentachlorophenol	N	2900	mg/kg	0.20	< 0.20
2-Sec-Butyl-4,6-Dinitrophenol	N	2900	mg/kg	0.20	< 0.20
Total Phenols	N	2900	mg/kg	5.00	< 5.0
Arsenic	M	2450	mg/kg	1.0	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	
Cadmium	M	2450	mg/kg	0.10	
Chromium	M	2450	mg/kg	1.0	

Results - Soil

Project: 3043 - Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		19-01615
Quotation No.:			**Chemtest Sample ID.:**		755645
			Client Sample ID.:		2
			Sample Location:		TP446
			Sample Type:		SOIL
			Top Depth (m):		1.60
			Date Sampled:		15-Jan-2019
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Chromium (Trivalent)	N	2490	mg/kg	1.0	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	
Copper	M	2450	mg/kg	0.50	
Lead	M	2450	mg/kg	0.50	
Mercury	M	2450	mg/kg	0.10	
Nickel	M	2450	mg/kg	0.50	
Selenium	M	2450	mg/kg	0.20	
Zinc	M	2450	mg/kg	0.50	

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurememrnt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2900	Phenols in Soils by GC-MS	Approximately 24 substituted Phenols, including Chlorophenols	Dichloromethane extraction / GC-MS

Report Information

Key

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

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Certificate of Analysis

Certificate Number 19-07101

24-Apr-19

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 19-07101

Client Reference 3043

Order No 14416

Contract Title Westgate Cleckheaton

Description 2 Water samples.

Date Received 16-Apr-19

Date Started 16-Apr-19

Date Completed 24-Apr-19

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.72	0.99
Boron, Dissolved	DETSC 2306*	12	ug/l	35	32
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.6	1.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.11	0.23
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	2.3
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.7	3.5
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	577	552
pH	DETSC 2008			7.6	7.5
Alkalinity, Carbonate as CaCO3	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Sulphide	DETSC 2208	10	ug/l	30	17

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	2	2
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
Naphthalene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1
SVOCs					
Phenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Aniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluorene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Chrysene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Key: * -not accredited. n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 19-07101
Client Ref 3043
Contract Westgate Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1489173	SW1 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	
1489174	SW2 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	

Key: G-Glass P-Plastic B-Bottle V-Vial

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

Disposal

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

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

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

Amended Report

Report No.:	20-26031-2		
Initial Date of Issue:	02-Oct-2020	**Date of Re-Issue:**	13-Oct-2020
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	Kelvin Eady Alex Petts George Morton		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		**Date Received:**	28-Sep-2020
Order No.:	PO16514/3043/ACP	**Date Instructed:**	28-Sep-2020
No. of Samples:	38		
Turnaround (Wkdays):	12	**Results Due:**	13-Oct-2020
Date Approved:	13-Oct-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Bulk Identification Certificate

Client: Lithos Consulting
Site Address:
Date Sampled: 16-Sep-2020
Date Received: 28-Sep-2020

Your Ref.:
Project: 3043 Westgate, Cleckheaton
Job Number: 20-26031
No Samples:
Date Reported: 02-Oct-2020

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1071261	3		TP512	1		2185	U	LIVERPOOL	Cement	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).
The results relate only to items tested as supplied by the client.
Comments and interpretations are beyond the scope of UKAS accreditation.
Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Results - Leachate

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting						**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:						**Chemtest Sample ID.:**	1071258	1071259	1071260	1071277	1071280	1071283	1071286	1071289	1071298
						Client Sample ID.:	2	4	6	3	2	2	1	2	4
						Sample Location:	TP515	TP515	TP505	TP503	TP501	TP502	TP504	TP505	TP508
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.4	1.8	2.1	1.5	1.2	2.8	0.6	0.8	1.4
						Date Sampled:	16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**										
pH	U	1010	10:1		N/A		4.9	4.3		5.3	7.1	5.2	6.9	7.4	7.9
Arsenic (Dissolved)	U	1450	10:1	µg/l	1.0		1.0	< 1.0		1.6	5.4	28	23	25	4.2
Boron (Dissolved)	U	1450	10:1	µg/l	20		29	160		35	110	120	45	57	36
Cadmium (Dissolved)	U	1450	10:1	µg/l	0.080		0.87	0.17		0.45	< 0.080	0.94	< 0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	10:1	µg/l	1.0		< 1.0	1.0		< 1.0	< 1.0	3.8	< 1.0	1.8	1.9
Copper (Dissolved)	U	1450	10:1	µg/l	1.0		58	29		3.5	< 1.0	9.3	1.7	3.1	2.6
Mercury (Dissolved)	U	1450	10:1	µg/l	0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	10:1	µg/l	1.0		40	12		9.5	14	79	6.5	2.1	< 1.0
Lead (Dissolved)	U	1450	10:1	µg/l	1.0		19	53		4.0	< 1.0	830	8.0	1.8	1.1
Selenium (Dissolved)	U	1450	10:1	µg/l	1.0		< 1.0	< 1.0		1.3	< 1.0	1.8	1.1	1.9	< 1.0
Zinc (Dissolved)	U	1450	10:1	µg/l	1.0		430	140		140	12	210	76	29	3.6
Naphthalene	U	1800	10:1	µg/l	0.10				I/S						
Acenaphthylene	U	1800	10:1	µg/l	0.10				I/S						
Acenaphthene	U	1800	10:1	µg/l	0.10				I/S						
Fluorene	U	1800	10:1	µg/l	0.10				I/S						
Phenanthrene	U	1800	10:1	µg/l	0.10				I/S						
Anthracene	U	1800	10:1	µg/l	0.10				I/S						
Fluoranthene	U	1800	10:1	µg/l	0.10				I/S						
Pyrene	U	1800	10:1	µg/l	0.10				I/S						
Benzo[a]anthracene	U	1800	10:1	µg/l	0.10				I/S						
Chrysene	U	1800	10:1	µg/l	0.10				I/S						
Benzo[b]fluoranthene	U	1800	10:1	µg/l	0.10				I/S						
Benzo[k]fluoranthene	U	1800	10:1	µg/l	0.10				I/S						
Benzo[a]pyrene	U	1800	10:1	µg/l	0.10				I/S						
Indeno(1,2,3-c,d)Pyrene	U	1800	10:1	µg/l	0.10				I/S						
Dibenz(a,h)Anthracene	U	1800	10:1	µg/l	0.10				I/S						
Benzo[g,h,i]perylene	U	1800	10:1	µg/l	0.10				I/S						
Coronene	N	1800	10:1	µg/l	0.10				I/S						
Total Of 16 PAH's	U	1800	10:1	µg/l	2.0				I/S						

Results - Leachate

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting				**Chemtest Job No.:**		20-26031	20-26031
Quotation No.:				**Chemtest Sample ID.:**		1071303	1071317
				Client Sample ID.:		2	1
				Sample Location:		TP510	TP512
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.9	0.2
				Date Sampled:		15-Sep-2020	16-Sep-2020
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**		
pH	U	1010	10:1		N/A	7.5	7.8
Arsenic (Dissolved)	U	1450	10:1	µg/l	1.0	5.7	3.2
Boron (Dissolved)	U	1450	10:1	µg/l	20	34	63
Cadmium (Dissolved)	U	1450	10:1	µg/l	0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	8.2
Copper (Dissolved)	U	1450	10:1	µg/l	1.0	2.1	8.4
Mercury (Dissolved)	U	1450	10:1	µg/l	0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	10:1	µg/l	1.0	3.1	1.8
Lead (Dissolved)	U	1450	10:1	µg/l	1.0	< 1.0	9.1
Selenium (Dissolved)	U	1450	10:1	µg/l	1.0	1.4	< 1.0
Zinc (Dissolved)	U	1450	10:1	µg/l	1.0	35	18
Naphthalene	U	1800	10:1	µg/l	0.10		
Acenaphthylene	U	1800	10:1	µg/l	0.10		
Acenaphthene	U	1800	10:1	µg/l	0.10		
Fluorene	U	1800	10:1	µg/l	0.10		
Phenanthrene	U	1800	10:1	µg/l	0.10		
Anthracene	U	1800	10:1	µg/l	0.10		
Fluoranthene	U	1800	10:1	µg/l	0.10		
Pyrene	U	1800	10:1	µg/l	0.10		
Benzo[a]anthracene	U	1800	10:1	µg/l	0.10		
Chrysene	U	1800	10:1	µg/l	0.10		
Benzo[b]fluoranthene	U	1800	10:1	µg/l	0.10		
Benzo[k]fluoranthene	U	1800	10:1	µg/l	0.10		
Benzo[a]pyrene	U	1800	10:1	µg/l	0.10		
Indeno(1,2,3-c,d)Pyrene	U	1800	10:1	µg/l	0.10		
Dibenz(a,h)Anthracene	U	1800	10:1	µg/l	0.10		
Benzo[g,h,i]perylene	U	1800	10:1	µg/l	0.10		
Coronene	N	1800	10:1	µg/l	0.10		
Total Of 16 PAH's	U	1800	10:1	µg/l	2.0		

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting				**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:				**Chemtest Sample ID.:**	1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
				Client Sample ID.:	2	4	6	3	6	3	4	1	5
				Sample Location:	TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
				Date Sampled:	16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
				Asbestos Lab:	LIVERPOOL	LIVERPOOL							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-							
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected							
ACM Detection Stage	U	2192		N/A	-	-							
Moisture	N	2030	%	0.020	25	15	< 0.020	17	18	27	21	16	25
Soil Colour	N	2040		N/A	Brown	Brown	Black	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	None	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Tarmac	Clay	Sand	Clay	Clay	Sand	Clay
Chromatogram (TPH)	N			N/A									
pH	M	2010		4.0	6.0	4.4		5.0	< 4.0		< 4.0	7.6	9.1
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.031	0.014		0.010	< 0.010		0.021	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.1	0.013		0.63	0.41		1.2	1.6	3.2
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	0.20	0.20		0.037	0.034		0.057	0.038	0.78
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0	27	48		21	24		19	40	14
Total Organic Carbon	M	2625	%	0.20	12		0.64	0.68	0.47	2.0	0.26	4.4	1.6
Diesel Present	N	2670		N/A									
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		850	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		5500	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		29000	< 1.0	< 1.0		< 1.0	< 1.0	8.0
TPH >C12-C16	N	2670	mg/kg	1.0	14		32000	4.2	18		2.5	6.9	26
TPH >C16-C21	N	2670	mg/kg	1.0	41		110000	41	25		44	70	200
TPH >C21-C35	N	2670	mg/kg	1.0	66		150000	410	84		72	120	290
Total TPH >C6-C35	U	2670	mg/kg	10.0	120		330000	460	130		120	190	530
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:					**Chemtest Sample ID.:**	1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
					Client Sample ID.:	2	4	6	3	6	3	4	1	5
					Sample Location:	TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
					Date Sampled:	16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
					Asbestos Lab:	LIVERPOOL	LIVERPOOL							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0										
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0										
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0										
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0										
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0										
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0										
Dichlorodifluoromethane	U	2760	µg/kg	1.0							< 1.0			
Chloromethane	M	2760	µg/kg	1.0							< 1.0			
Vinyl Chloride	M	2760	µg/kg	1.0							< 1.0			
Bromomethane	M	2760	µg/kg	20							< 20			
Chloroethane	U	2760	µg/kg	2.0							< 2.0			
Trichlorofluoromethane	M	2760	µg/kg	1.0							< 1.0			
1,1-Dichloroethene	M	2760	mg/kg	1.0							< 1.0			
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0							< 1.0			
1,1-Dichloroethane	M	2760	µg/kg	1.0							< 1.0			
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0							< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0							< 5.0			
Trichloromethane	M	2760	µg/kg	1.0							< 1.0			
1,1,1-Trichloroethane	M	2760	µg/kg	1.0							< 1.0			
Tetrachloromethane	M	2760	µg/kg	1.0							< 1.0			
1,1-Dichloropropene	U	2760	µg/kg	1.0							< 1.0			
Benzene	M	2760	µg/kg	1.0							< 1.0			
1,2-Dichloroethane	M	2760	µg/kg	2.0							< 2.0			
Trichloroethene	N	2760	µg/kg	1.0							< 1.0			
1,2-Dichloropropane	M	2760	µg/kg	1.0							< 1.0			
Dibromomethane	M	2760	µg/kg	1.0							< 1.0			
Bromodichloromethane	M	2760	µg/kg	5.0							< 5.0			
cis-1,3-Dichloropropene	N	2760	µg/kg	10							< 10			
Toluene	M	2760	µg/kg	1.0							< 1.0			
Trans-1,3-Dichloropropene	N	2760	µg/kg	10							< 10			
1,1,2-Trichloroethane	M	2760	µg/kg	10							< 10			
Tetrachloroethene	M	2760	µg/kg	1.0							< 1.0			
1,3-Dichloropropane	U	2760	µg/kg	2.0							< 2.0			
Dibromochloromethane	U	2760	µg/kg	10							< 10			
1,2-Dibromoethane	M	2760	µg/kg	5.0							< 5.0			
Chlorobenzene	M	2760	µg/kg	1.0							< 1.0			
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0							< 2.0			

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
			Client Sample ID.:		2	4	6	3	6	3	4	1	5
			Sample Location:		TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
			Date Sampled:		16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		LIVERPOOL	LIVERPOOL							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Ethylbenzene	M	2760	µg/kg	1.0						< 1.0			
m & p-Xylene	M	2760	µg/kg	1.0						< 1.0			
o-Xylene	M	2760	µg/kg	1.0						< 1.0			
Styrene	M	2760	µg/kg	1.0						< 1.0			
Tribromomethane	U	2760	µg/kg	1.0						< 1.0			
Isopropylbenzene	M	2760	µg/kg	1.0						< 1.0			
Bromobenzene	M	2760	µg/kg	1.0						< 1.0			
1,2,3-Trichloropropane	N	2760	µg/kg	50						< 50			
N-Propylbenzene	U	2760	µg/kg	1.0						< 1.0			
2-Chlorotoluene	M	2760	µg/kg	1.0						< 1.0			
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0						13			
4-Chlorotoluene	U	2760	µg/kg	1.0						< 1.0			
Tert-Butylbenzene	U	2760	µg/kg	1.0						2.1			
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0						34			
Sec-Butylbenzene	U	2760	µg/kg	1.0						< 1.0			
1,3-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0			
4-Isopropyltoluene	U	2760	µg/kg	1.0						< 1.0			
1,4-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0			
N-Butylbenzene	U	2760	µg/kg	1.0						< 1.0			
1,2-Dichlorobenzene	M	2760	µg/kg	1.0						< 1.0			
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50						< 50			
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0						< 1.0			
Hexachlorobutadiene	U	2760	µg/kg	1.0						< 1.0			
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0						< 2.0			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0						< 1.0			
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50		74	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50		81	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50		90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
			Client Sample ID.:		2	4	6	3	6	3	4	1	5
			Sample Location:		TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
			Date Sampled:		16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		LIVERPOOL	LIVERPOOL							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Isophorone	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50		73	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50		1700	< 0.50	< 0.50	< 0.50	< 0.50	1.1	0.77
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50		470	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50		320	< 0.50	< 0.50	< 0.50	< 0.50	0.95	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50		250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50		280	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	7.6		1700	< 0.50	< 0.50	1.6	< 0.50	11	5.3
Anthracene	M	2790	mg/kg	0.50	1.6		490	< 0.50	< 0.50	< 0.50	< 0.50	2.6	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50		270	< 0.50	< 0.50	< 0.50	< 0.50	0.89	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	13		1300	< 0.50	< 0.50	1.7	< 0.50	16	6.0

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071258	1071259	1071260	1071262	1071264	1071265	1071266	1071267	1071268
			Client Sample ID.:		2	4	6	3	6	3	4	1	5
			Sample Location:		TP515	TP515	TP505	TP501	TP508	TP513	TP513	TP514	TP514
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.4	1.8	2.1	1.8	2.3	2.9	4	0.3	2.8
			Date Sampled:		16-Sep-2020	16-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		LIVERPOOL	LIVERPOOL							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Pyrene	M	2790	mg/kg	0.50	10		1000	< 0.50	< 0.50	1.2	< 0.50	13	3.2
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	6.0		550	< 0.50	< 0.50	0.72	< 0.50	9.5	2.3
Chrysene	M	2790	mg/kg	0.50	5.5		440	< 0.50	< 0.50	0.69	< 0.50	8.4	2.7
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	6.0		400	< 0.50	< 0.50	< 0.50	< 0.50	10	2.7
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	2.2		160	< 0.50	< 0.50	< 0.50	< 0.50	3.8	0.83
Benzo[a]pyrene	M	2790	mg/kg	0.50	4.3		350	< 0.50	< 0.50	< 0.50	< 0.50	7.8	1.1
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	2.0		140	< 0.50	< 0.50	< 0.50	< 0.50	4.4	0.75
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	0.67		44	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.2		150	< 0.50	< 0.50	< 0.50	< 0.50	5.0	0.71
Arsenic	M	2450	mg/kg	1.0	370	75		7.2	16		21	320	200
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.57	4.4		8.1	3.6		1.7	0.93	3.8
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10		< 0.10	0.28	< 0.10
Chromium	M	2450	mg/kg	1.0	55	35		22	29		13	29	7.3
Chromium (Trivalent)	N	2490	mg/kg	1.0	55	35		22	29		13	29	7.3
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50	74	78		24	52		9.9	140	21
Lead	M	2450	mg/kg	0.50	570	360		24	18		46	980	150
Mercury	M	2450	mg/kg	0.10	0.87	0.36		< 0.10	< 0.10		< 0.10	1.6	0.36
Nickel	M	2450	mg/kg	0.50	25	23		34	6.8		4.6	27	5.7
Selenium	M	2450	mg/kg	0.20	1.1	0.60		0.24	< 0.20		0.32	1.6	3.6
Zinc	M	2450	mg/kg	0.50	60	120		72	21		22	150	19

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting				**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:				**Chemtest Sample ID.:**	1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
				Client Sample ID.:	2	4	6	7	3	12	2	4	2
				Sample Location:	TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
				Date Sampled:	16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
				Asbestos Lab:					LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A					-		-		-
Asbestos Identification	U	2192		N/A					No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
ACM Detection Stage	U	2192		N/A					-		-		-
Moisture	N	2030	%	0.020	33	16	21	10	11	24	23	7.5	7.1
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Black	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Sand	Sand	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A							See Attached		
pH	M	2010		4.0	< 4.0				5.1		7.2		< 4.0
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.020				0.022		0.023		0.12
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.56				1.6		1.1		9.3
Total Sulphur	M	2175	%	0.010					2.3				3.3
Chloride (Water Soluble)	M	2220	g/l	0.010	0.034				0.030		0.078		0.076
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010				< 0.010		< 0.010		< 0.010
Vanadium	U	2450	mg/kg	5.0	15				28		15		28
Total Organic Carbon	M	2625	%	0.20	6.0	< 0.20	1.1	0.89	7.7	6.2	7.1	4.3	9.8
Diesel Present	N	2670		N/A							True		
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0				< 1.0		4.5		< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0				< 1.0		230		< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0				< 1.0		910		< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	22				< 1.0		3000		7.5
TPH >C16-C21	N	2670	mg/kg	1.0	51				< 1.0		8200		31
TPH >C21-C35	N	2670	mg/kg	1.0	330				< 1.0		27000		54
Total TPH >C6-C35	U	2670	mg/kg	10.0	400				< 10		39000		93
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0			67		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0			98		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0			340		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0	< 1.0			1200		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0			4800		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			480		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			6900		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0			250		

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
			Client Sample ID.:		2	4	6	7	3	12	2	4	2
			Sample Location:		TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
			Date Sampled:		16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:						LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0			160		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0			520		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0	< 1.0			1500		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0			5300		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			910		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			8700		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10	< 10			16000		
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Chloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Bromomethane	M	2760	µg/kg	20		< 20	< 20	< 20		< 20		< 20	
Chloroethane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	
Trichloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Benzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		3.5		2.1	
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	
Trichloroethene	N	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Dibromomethane	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10	
Toluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		2.7		3.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10	
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	
Dibromochloromethane	U	2760	µg/kg	10		< 10	< 10	< 10		< 10		< 10	
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:					**Chemtest Sample ID.:**	1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
					Client Sample ID.:	2	4	6	7	3	12	2	4	2
					Sample Location:	TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
					Date Sampled:	16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
					Asbestos Lab:					LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		4.5		6.0		
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		10		6.6		
o-Xylene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		4.0		2.2		
Styrene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		5.1		< 1.0		
Tribromomethane	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		6.8		< 1.0		
Bromobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50	< 50	< 50		< 50		< 50		
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.0		< 1.0		
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.2		< 1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		3.4		< 1.0		
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		15		< 1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		23		< 1.0		
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		8.5		< 1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		13		< 1.0		
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		7.9		< 1.0		
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		17		< 1.0		
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50	< 50	< 50		< 50		< 50		
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		9.2		< 1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0		
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
			Client Sample ID.:		2	4	6	7	3	12	2	4	2
			Sample Location:		TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
			Date Sampled:		16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:						LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	0.89	< 0.50	< 0.50	< 0.50	3.0	< 0.50	0.85	4.1	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	< 0.50	2.4	6.5	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.4	< 0.50	< 0.50	17	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.9	< 0.50	< 0.50	12	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.4	< 0.50	0.65	20	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	10	< 0.50	< 0.50	< 0.50	28	2.0	2.7	100	1.3
Anthracene	M	2790	mg/kg	0.50	1.6	< 0.50	< 0.50	< 0.50	7.7	0.67	0.74	30	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.3	< 0.50	< 0.50	13	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	13	< 0.50	< 0.50	< 0.50	22	1.4	2.3	75	1.6

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071270	1071273	1071275	1071276	1071277	1071278	1071280	1071281	1071283
			Client Sample ID.:		2	4	6	7	3	12	2	4	2
			Sample Location:		TP517	TP509	TP514	TP514	TP503	BH501	TP501	TP501	TP502
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.5	3	3.3	4.4	1.5	7.6	1.2	3.6	2.8
			Date Sampled:		16-Sep-2020	15-Sep-2020	16-Sep-2020	16-Sep-2020	15-Sep-2020	14-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:						LIVERPOOL		LIVERPOOL		LIVERPOOL
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Pyrene	M	2790	mg/kg	0.50	9.5	< 0.50	< 0.50	< 0.50	17	1.2	2.5	61	1.4
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	6.1	< 0.50	< 0.50	< 0.50	7.7	0.72	0.89	42	2.1
Chrysene	M	2790	mg/kg	0.50	7.4	< 0.50	< 0.50	< 0.50	6.8	< 0.50	1.1	34	2.0
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	11	< 0.50	< 0.50	< 0.50	6.2	< 0.50	1.2	29	0.93
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	3.6	< 0.50	< 0.50	< 0.50	2.2	< 0.50	< 0.50	11	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	3.3	< 0.50	< 0.50	< 0.50	4.9	< 0.50	0.77	23	0.66
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	4.0	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 0.50	7.3	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.5	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	3.3	< 0.50	< 0.50	< 0.50	2.2	< 0.50	< 0.50	8.6	< 0.50
Arsenic	M	2450	mg/kg	1.0	18				69		23		200
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.2				0.79		2.1		2.6
Cadmium	M	2450	mg/kg	0.10	< 0.10				< 0.10		0.81		< 0.10
Chromium	M	2450	mg/kg	1.0	3.8				14		11		9.1
Chromium (Trivalent)	N	2490	mg/kg	1.0	3.8				14		11		8.9
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50				< 0.50		< 0.50		< 0.50
Copper	M	2450	mg/kg	0.50	16				26		26		43
Lead	M	2450	mg/kg	0.50	50				370		130		2800
Mercury	M	2450	mg/kg	0.10	0.81				0.33		0.37		0.37
Nickel	M	2450	mg/kg	0.50	8.7				16		24		14
Selenium	M	2450	mg/kg	0.20	2.9				1.3		0.33		1.2
Zinc	M	2450	mg/kg	0.50	13				39		160		35

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
			Client Sample ID.:		1	2	2	4	5	3	2	4	1
			Sample Location:		TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
			Date Sampled:		15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:		COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-		-		-	-	-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
ACM Detection Stage	U	2192		N/A	-		-		-	-	-	-	
Moisture	N	2030	%	0.020	9.4	10	8.8	26	9.2	8.4	9.5	9.3	6.5
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	brown	brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	stones	stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	sand	sand
Chromatogram (TPH)	N			N/A									
pH	M	2010		4.0	7.6		7.9		7.1	6.1	8.5	8.1	
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.017		0.015		0.012	0.017	0.015	< 0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.7		1.5		1.6	1.7	1.3	0.90	
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	0.016		< 0.010		0.012	0.030	< 0.010	< 0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010		0.023		0.013	< 0.010	< 0.010	< 0.010	
Vanadium	U	2450	mg/kg	5.0	39		62		67	13	50	49	
Total Organic Carbon	M	2625	%	0.20	5.6	4.3	6.1	7.2				2.4	7.8
Diesel Present	N	2670		N/A									
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		< 1.0					< 1.0	
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		< 1.0					< 1.0	
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		5.2					< 1.0	
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0		26					< 1.0	
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0		120					< 1.0	
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0		320					< 1.0	
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10		470					< 10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
			Client Sample ID.:		1	2	2	4	5	3	2	4	1
			Sample Location:		TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
			Date Sampled:		15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:		COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0									
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0									
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Chloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Bromomethane	M	2760	µg/kg	20		< 20		< 20					< 20
Chloroethane	U	2760	µg/kg	2.0		< 2.0		< 2.0					< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0					< 1.0
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0					< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		< 5.0					< 5.0
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0					< 2.0
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		< 5.0					< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10					< 10
Toluene	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10					< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		< 10					< 10
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		< 2.0					< 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10		< 10					< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		< 5.0					< 5.0
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0					< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0					< 2.0

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:					**Chemtest Sample ID.:**	1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
					Client Sample ID.:	1	2	2	4	5	3	2	4	1
					Sample Location:	TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
					Date Sampled:	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
					Asbestos Lab:	COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
o-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Styrene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50						< 50
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50						< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		< 2.0						< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		< 1.0						< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
			Client Sample ID.:		1	2	2	4	5	3	2	4	1
			Sample Location:		TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
			Date Sampled:		15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:		COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	2.2	4.3	< 0.50				< 0.50	3.8
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.97	3.6	< 0.50				< 0.50	0.59
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	2.1	3.8	< 0.50				< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	1.3	2.1	< 0.50				< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	1.6	3.0	< 0.50				< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	2.3	19	42	< 0.50				3.4	4.7
Anthracene	M	2790	mg/kg	0.50	0.56	4.2	8.7	< 0.50				0.96	1.0
Carbazole	M	2790	mg/kg	0.50	< 0.50	1.8	4.1	< 0.50				< 0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	4.0	27	61	< 0.50				5.3	7.2

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071286	1071287	1071289	1071291	1071292	1071294	1071296	1071298	1071300
			Client Sample ID.:		1	2	2	4	5	3	2	4	1
			Sample Location:		TP504	TP504	TP505	TP505	TP505	TP506	TP507	TP508	TP509
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.6	1.2	0.8	3.8	4.8	1.5	1	1.4	0.5
			Date Sampled:		15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020	15-Sep-2020
			Asbestos Lab:		COVENTRY		COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Pyrene	M	2790	mg/kg	0.50	3.5	22	51	< 0.50				4.4	6.2
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	2.2	13	29	< 0.50				2.6	4.0
Chrysene	M	2790	mg/kg	0.50	1.9	11	27	< 0.50				2.2	3.5
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50				< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	2.5	13	31	< 0.50				2.5	3.9
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	0.78	4.5	11	< 0.50				0.94	1.5
Benzo[a]pyrene	M	2790	mg/kg	0.50	1.8	10	23	< 0.50				2.1	3.1
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	0.92	4.7	12	< 0.50				0.99	1.4
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50	1.5	4.1	< 0.50				< 0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	1.1	5.6	14	< 0.50				1.2	1.5
Arsenic	M	2450	mg/kg	1.0	410		230		140	30	180	63	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.78		1.2		0.53	1.6	0.72	0.79	
Cadmium	M	2450	mg/kg	0.10	0.10		0.19		< 0.10	< 0.10	< 0.10	0.26	
Chromium	M	2450	mg/kg	1.0	29		84		22	8.0	67	53	
Chromium (Trivalent)	N	2490	mg/kg	1.0	29		84		21	8.0	67	53	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50		1.4	< 0.50	< 0.50	< 0.50	
Copper	M	2450	mg/kg	0.50	87		160		100	20	370	100	
Lead	M	2450	mg/kg	0.50	560		890		770	270	1400	550	
Mercury	M	2450	mg/kg	0.10	1.1		1.6		0.51	0.14	1.3	0.49	
Nickel	M	2450	mg/kg	0.50	32		39		24	6.1	33	32	
Selenium	M	2450	mg/kg	0.20	1.1		0.99		1.1	0.51	0.81	0.58	
Zinc	M	2450	mg/kg	0.50	120		120		39	16	290	130	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting				**Chemtest Job No.:**	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:				**Chemtest Sample ID.:**	1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
				Client Sample ID.:	2	2	4	2	3	2	4	1	1
				Sample Location:	TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
				Date Sampled:	15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-	-		-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-		-	-	-	-	-
Moisture	N	2030	%	0.020	6.8	15	8.5	10	32	14	22	13	9.5
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Roots and Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A			See Attached						
pH	M	2010		4.0	7.9	8.4	7.8		7.7	8.2	7.9	8.3	8.4
Magnesium (Water Soluble)	N	2120	g/l	0.010	0.013	< 0.010	0.019		< 0.010	< 0.010	0.017	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.4	0.18	1.5		0.32	0.23	0.72	0.057	0.076
Total Sulphur	M	2175	%	0.010									
Chloride (Water Soluble)	M	2220	g/l	0.010	< 0.010	< 0.010	0.014		0.039	< 0.010	0.056	< 0.010	< 0.010
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0	47	53	26		28	54	37	49	58
Total Organic Carbon	M	2625	%	0.20	5.0	18	36	0.73	11	23	7.9	8.7	
Diesel Present	N	2670		N/A			False						
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0		< 1.0			< 1.0	< 1.0	< 1.0	
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0		4.7			< 1.0	< 1.0	< 1.0	
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0		32			< 1.0	< 1.0	< 1.0	
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0		130			< 1.0	< 1.0	< 1.0	
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0		910			< 1.0	< 1.0	< 1.0	
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0		2200			< 1.0	< 1.0	< 1.0	
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10		3300			< 10	< 10	< 10	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0						
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0						
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			59						
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			23						
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			25						
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			57						
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			400						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			120						
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			690						
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0						
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0						
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			180						

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
			Client Sample ID.:		2	2	4	2	3	2	4	1	1
			Sample Location:		TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
			Date Sampled:		15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			130						
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			390						
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			2300						
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			9400						
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			820						
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			13000						
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			14000						
Dichlorodifluoromethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Chloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Vinyl Chloride	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Bromomethane	M	2760	µg/kg	20		< 20		< 20	< 20				
Chloroethane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Trichlorofluoromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0	< 1.0				
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1-Dichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Bromochloromethane	U	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0				
Trichloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1,1-Trichloroethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Tetrachloromethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1-Dichloropropene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Benzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dichloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Trichloroethene	N	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dichloropropane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Dibromomethane	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Bromodichloromethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0				
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10				
Toluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10		< 10	< 10				
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10		< 10	< 10				
Tetrachloroethene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3-Dichloropropane	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Dibromochloromethane	U	2760	µg/kg	10		< 10		< 10	< 10				
1,2-Dibromoethane	M	2760	µg/kg	5.0		< 5.0		< 5.0	< 5.0				
Chlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
			Client Sample ID.:		2	2	4	2	3	2	4	1	1
			Sample Location:		TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
			Date Sampled:		15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Ethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
m & p-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
o-Xylene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Styrene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Tribromomethane	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Isopropylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Bromobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50	< 50				
N-Propylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
2-Chlorotoluene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
4-Chlorotoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Tert-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Sec-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,3-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
4-Isopropyltoluene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,4-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
N-Butylbenzene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50	< 50				
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
Hexachlorobutadiene	U	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0		< 2.0		< 2.0	< 2.0				
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0				
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
			Client Sample ID.:		2	2	4	2	3	2	4	1	1
			Sample Location:		TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
			Date Sampled:		15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene	M	2790	mg/kg	0.50	< 0.50	1.1	15	< 0.50	< 0.50	< 0.50	2.3	< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	0.93	7.3	< 0.50	< 0.50	< 0.50	0.86	< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	4.9	19	< 0.50	< 0.50	< 0.50	1.2	< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	1.5	11	< 0.50	< 0.50	< 0.50	0.80	< 0.50	
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Fluorene	M	2790	mg/kg	0.50	< 0.50	2.8	15	< 0.50	< 0.50	< 0.50	1.2	< 0.50	
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Phenanthrene	M	2790	mg/kg	0.50	4.6	33	170	0.61	1.4	< 0.50	5.4	2.4	
Anthracene	M	2790	mg/kg	0.50	1.2	9.8	39	< 0.50	< 0.50	< 0.50	1.4	< 0.50	
Carbazole	M	2790	mg/kg	0.50	< 0.50	2.5	13	< 0.50	< 0.50	< 0.50	0.68	< 0.50	
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Fluoranthene	M	2790	mg/kg	0.50	8.7	48	210	1.3	5.3	< 0.50	9.3	5.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031	20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071303	1071305	1071306	1071308	1071309	1071312	1071316	1071317	1071318
			Client Sample ID.:		2	2	4	2	3	2	4	1	1
			Sample Location:		TP510	TP512	TP512	TP514	TP514	TP516	TP518	TP512	TP517
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.9	0.9	2.3	0.7	0.9	0.8	2	0.2	0.2
			Date Sampled:		15-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020	16-Sep-2020
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Pyrene	M	2790	mg/kg	0.50	7.7	39	160	1.1	4.8	< 0.50	7.9	4.4	
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzo[a]anthracene	M	2790	mg/kg	0.50	4.9	20	93	0.76	4.6	< 0.50	4.8	3.0	
Chrysene	M	2790	mg/kg	0.50	4.1	16	78	0.67	4.2	< 0.50	3.9	2.8	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	5.3	18	89	0.82	5.6	< 0.50	4.3	3.4	
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	1.9	6.2	35	< 0.50	2.1	< 0.50	1.6	1.4	
Benzo[a]pyrene	M	2790	mg/kg	0.50	4.1	15	67	0.59	3.7	< 0.50	3.8	2.7	
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	2.1	6.4	36	< 0.50	2.1	< 0.50	1.5	1.5	
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	0.56	1.9	10	< 0.50	0.79	< 0.50	< 0.50	< 0.50	
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.3	6.9	39	< 0.50	2.3	< 0.50	1.8	1.6	
Arsenic	M	2450	mg/kg	1.0	230	61	56		18	35	40	83	35
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.61	1.8	0.98		0.66	0.71	0.66	1.6	0.86
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.45	0.11		< 0.10	1.1	< 0.10	1.2	0.91
Chromium	M	2450	mg/kg	1.0	45	150	37		15	45	16	97	54
Chromium (Trivalent)	N	2490	mg/kg	1.0	45	150	37		15	45	16	97	54
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	M	2450	mg/kg	0.50	130	160	49		60	210	65	240	310
Lead	M	2450	mg/kg	0.50	1100	630	220		290	240	180	720	700
Mercury	M	2450	mg/kg	0.10	1.2	0.44	0.36		0.14	0.29	1.2	0.90	1.0
Nickel	M	2450	mg/kg	0.50	43	69	21		24	69	25	64	66
Selenium	M	2450	mg/kg	0.20	1.1	0.66	0.85		< 0.20	0.29	< 0.20	1.0	0.51
Zinc	M	2450	mg/kg	0.50	180	200	61		50	140	51	870	700

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071319
			Client Sample ID.:		5
			Sample Location:		TP518
			Sample Type:		SOIL
			Top Depth (m):		2.7
			Date Sampled:		16-Sep-2020
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type	U	2192		N/A	
Asbestos Identification	U	2192		N/A	
ACM Detection Stage	U	2192		N/A	
Moisture	N	2030	%	0.020	12
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Sand
Chromatogram (TPH)	N			N/A	
pH	M	2010		4.0	
Magnesium (Water Soluble)	N	2120	g/l	0.010	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	
Total Sulphur	M	2175	%	0.010	
Chloride (Water Soluble)	M	2220	g/l	0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	
Vanadium	U	2450	mg/kg	5.0	
Total Organic Carbon	M	2625	%	0.20	0.49
Diesel Present	N	2670		N/A	
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0
Total TPH >C6-C35	U	2670	mg/kg	10.0	< 10
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071319
			Client Sample ID.:		5
			Sample Location:		TP518
			Sample Type:		SOIL
			Top Depth (m):		2.7
			Date Sampled:		16-Sep-2020
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	
Dichlorodifluoromethane	U	2760	µg/kg	1.0	
Chloromethane	M	2760	µg/kg	1.0	
Vinyl Chloride	M	2760	µg/kg	1.0	
Bromomethane	M	2760	µg/kg	20	
Chloroethane	U	2760	µg/kg	2.0	
Trichlorofluoromethane	M	2760	µg/kg	1.0	
1,1-Dichloroethene	M	2760	mg/kg	1.0	
Trans 1,2-Dichloroethene	M	2760	mg/kg	1.0	
1,1-Dichloroethane	M	2760	µg/kg	1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	
Bromochloromethane	U	2760	µg/kg	5.0	
Trichloromethane	M	2760	µg/kg	1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	
Tetrachloromethane	M	2760	µg/kg	1.0	
1,1-Dichloropropene	U	2760	µg/kg	1.0	
Benzene	M	2760	µg/kg	1.0	
1,2-Dichloroethane	M	2760	µg/kg	2.0	
Trichloroethene	N	2760	µg/kg	1.0	
1,2-Dichloropropane	M	2760	µg/kg	1.0	
Dibromomethane	M	2760	µg/kg	1.0	
Bromodichloromethane	M	2760	µg/kg	5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	
Toluene	M	2760	µg/kg	1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	
Tetrachloroethene	M	2760	µg/kg	1.0	
1,3-Dichloropropane	U	2760	µg/kg	2.0	
Dibromochloromethane	U	2760	µg/kg	10	
1,2-Dibromoethane	M	2760	µg/kg	5.0	
Chlorobenzene	M	2760	µg/kg	1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071319
			Client Sample ID.:		5
			Sample Location:		TP518
			Sample Type:		SOIL
			Top Depth (m):		2.7
			Date Sampled:		16-Sep-2020
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Ethylbenzene	M	2760	µg/kg	1.0	
m & p-Xylene	M	2760	µg/kg	1.0	
o-Xylene	M	2760	µg/kg	1.0	
Styrene	M	2760	µg/kg	1.0	
Tribromomethane	U	2760	µg/kg	1.0	
Isopropylbenzene	M	2760	µg/kg	1.0	
Bromobenzene	M	2760	µg/kg	1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	
N-Propylbenzene	U	2760	µg/kg	1.0	
2-Chlorotoluene	M	2760	µg/kg	1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	
Sec-Butylbenzene	U	2760	µg/kg	1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	
N-Butylbenzene	U	2760	µg/kg	1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071319
			Client Sample ID.:		5
			Sample Location:		TP518
			Sample Type:		SOIL
			Top Depth (m):		2.7
			Date Sampled:		16-Sep-2020
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Isophorone	M	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50
Anthracene	M	2790	mg/kg	0.50	< 0.50
Carbazole	M	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

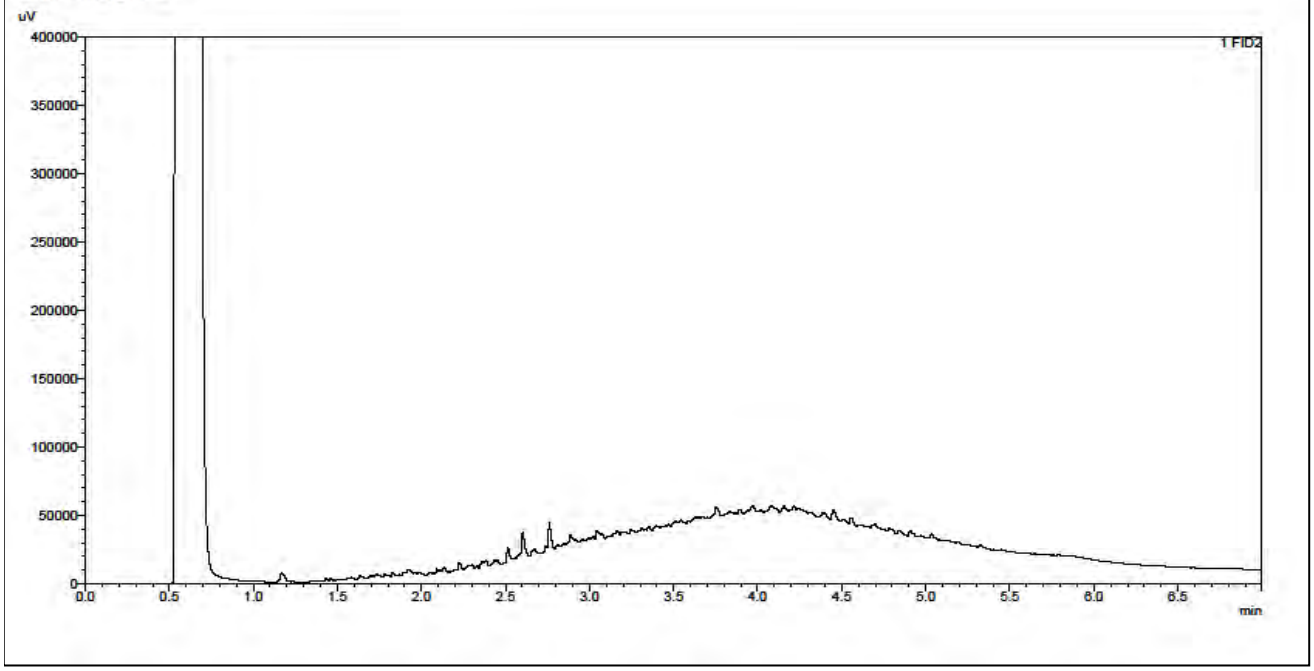
Client: Lithos Consulting			**Chemtest Job No.:**		20-26031
Quotation No.:			**Chemtest Sample ID.:**		1071319
			Client Sample ID.:		5
			Sample Location:		TP518
			Sample Type:		SOIL
			Top Depth (m):		2.7
			Date Sampled:		16-Sep-2020
			Asbestos Lab:		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Pyrene	M	2790	mg/kg	0.50	< 0.50
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	< 0.50
Chrysene	M	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	
Cadmium	M	2450	mg/kg	0.10	
Chromium	M	2450	mg/kg	1.0	
Chromium (Trivalent)	N	2490	mg/kg	1.0	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	
Copper	M	2450	mg/kg	0.50	
Lead	M	2450	mg/kg	0.50	
Mercury	M	2450	mg/kg	0.10	
Nickel	M	2450	mg/kg	0.50	
Selenium	M	2450	mg/kg	0.20	
Zinc	M	2450	mg/kg	0.50	

TPH Chromatogram on Soil Sample: 1071280

<Sample Information>

Sample Name : 1071280 20-26031
Data Filename : 07 October 2020_07102020_1071280 20-26031_082.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 116
Date Acquired : 07/10/2020 22:47:09
Date Processed : 09/10/2020

<Chromatogram>

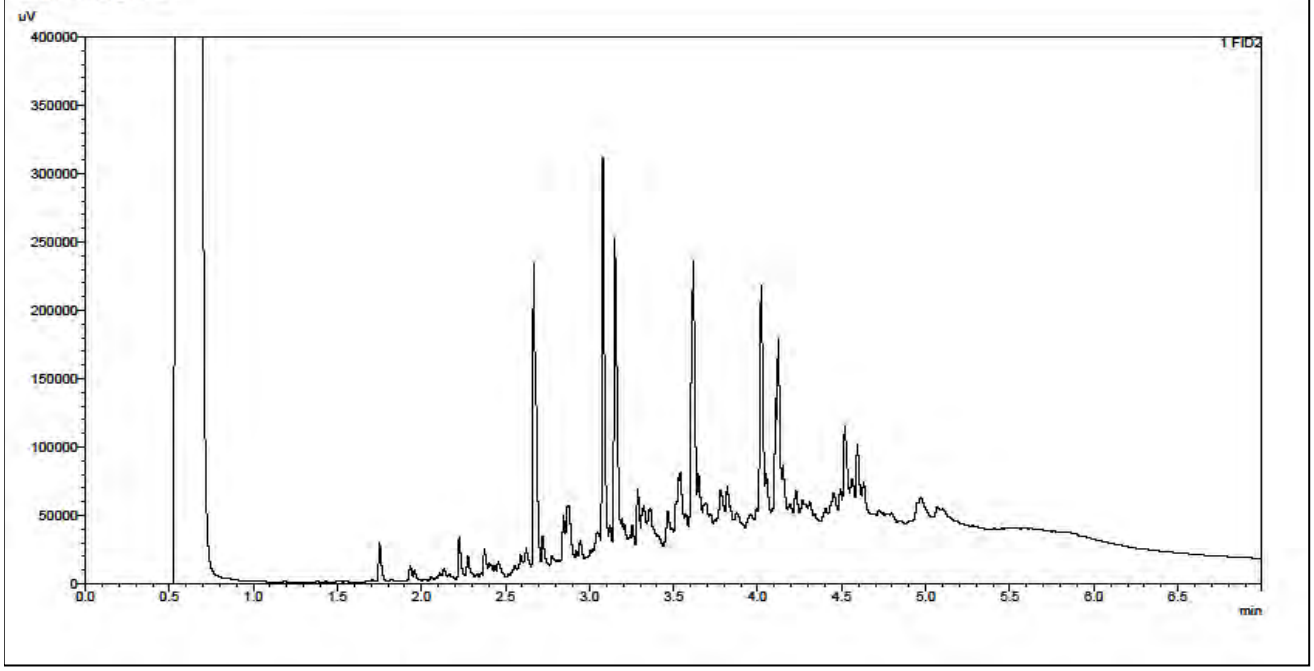


TPH Chromatogram on Soil Sample: 1071306

<Sample Information>

Sample Name : 1071306 20-26031
Data Filename : 07 October 2020_07102020_1071306 20-26031_084.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 117
Date Acquired : 07/10/2020 22:59:40
Date Processed : 09/10/2020

<Chromatogram>



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
20-26031	1071280	S	TP501		2	1.2	Yes	Weathered Diesel
20-26031	1071306	S	TP512		4	2.3	No	PAH

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurememrnt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

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

Amended Report

Report No.:	20-26520-2		
Initial Date of Issue:	12-Oct-2020	**Date of Re-Issue:**	15-Oct-2020
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	George Morton		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		**Date Received:**	30-Sep-2020
Order No.:	PO16550/glm/3043	**Date Instructed:**	02-Oct-2020
No. of Samples:	9		
Turnaround (Wkdays):	12	**Results Due:**	19-Oct-2020
Date Approved:	15-Oct-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Miscellaneous Solid

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26520	20-26520
Quotation No.:			**Chemtest Sample ID.:**		1073836	1073838
			Client Sample ID.:		1	1
			Sample Location:		TP519	TP522
			Sample Type:		MISCSOLID	MISCSOLID
			Top Depth (m):		0.05	0.03
			Date Sampled:		27-Sep-2020	27-Sep-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Naphthalene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	N	2800	mg/kg	0.10	0.48	< 0.10
Pyrene	N	2800	mg/kg	0.10	0.35	< 0.10
Benzo[a]anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Coronene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 17 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0
Moisture	N		%	0.10	< 0.10	< 0.10

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting					**Chemtest Job No.:**	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:					**Chemtest Sample ID.:**	1073824	1073826	1073829	1073830	1073831	1073832	1073834
					Client Sample ID.:	3	2	1	2	2	2	1
					Sample Location:	TP525	TP522	TP525	TP524	TP525	TP520	TP524
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	3.00	0.50	0.70	2.30	2.00	0.40	0.50
					Date Sampled:	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
					Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A			-	-	-	-	-	Cement
Asbestos Identification	U	2192		N/A			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile
ACM Detection Stage	U	2192		N/A			-	-	-	-	-	Screen Visible by Eye
Asbestos by Gravimetry	U	2192	%	0.001								0.62
Total Asbestos	U	2192	%	0.001								0.62
Moisture	N	2030	%	0.020		19	18	22	20	74	17	16
Soil Colour	N	2040		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A		Stones	Stones	Stones	None	None	Stones	Stones
Soil Texture	N	2040		N/A		Sand	Sand	Clay	Clay	Clay	Sand	Sand
pH	M	2010		4.0			8.8	8.0	10.3	8.8		8.2
Magnesium (Water Soluble)	N	2120	g/l	0.010			< 0.010	< 0.010	< 0.010	0.050	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			< 0.010	0.069	0.32	6.0	0.078	0.029
Chloride (Water Soluble)	M	2220	g/l	0.010			< 0.010	< 0.010	1.0	0.032	0.014	0.033
Nitrate (Water Soluble)	N	2220	g/l	0.010			< 0.010	0.015	< 0.010	< 0.010	< 0.010	< 0.010
Vanadium	U	2450	mg/kg	5.0			44	42	26	55		78
Total Organic Carbon	M	2625	%	0.20		9.9	4.8	5.8	0.49	7.0	7.3	5.2
TPH >C6-C8	N	2670	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0		< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0		17	< 1.0	12	< 1.0	40	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0		110	< 1.0	12	< 1.0	590	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0		360	< 1.0	22	< 1.0	1300	< 1.0	< 1.0
Total TPH >C6-C35	U	2670	mg/kg	10.0		490	< 10	48	< 10	2000	< 10	< 10
N-Nitrosodimethylamine	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26520	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:			**Chemtest Sample ID.:**		1073824	1073826	1073829	1073830	1073831	1073832	1073834
			Client Sample ID.:		3	2	1	2	2	2	1
			Sample Location:		TP525	TP522	TP525	TP524	TP525	TP520	TP524
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		3.00	0.50	0.70	2.30	2.00	0.40	0.50
			Date Sampled:		27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
			Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	< 0.50	< 0.50	0.82	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	2.7	< 0.50	6.6	< 0.50	4.2	< 0.50	4.1
Anthracene	M	2790	mg/kg	0.50	0.91	< 0.50	2.0	< 0.50	3.1	< 0.50	1.1
Carbazole	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	7.3	1.1	14	< 0.50	33	< 0.50	6.2

Results - Soil

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-26520	20-26520	20-26520	20-26520	20-26520	20-26520	20-26520
Quotation No.:			**Chemtest Sample ID.:**		1073824	1073826	1073829	1073830	1073831	1073832	1073834
			Client Sample ID.:		3	2	1	2	2	2	1
			Sample Location:		TP525	TP522	TP525	TP524	TP525	TP520	TP524
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		3.00	0.50	0.70	2.30	2.00	0.40	0.50
			Date Sampled:		27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020	27-Sep-2020
			Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Pyrene	M	2790	mg/kg	0.50	6.2	1.0	13	< 0.50	28	< 0.50	5.3
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	3.5	0.73	8.5	< 0.50	16	< 0.50	3.1
Chrysene	M	2790	mg/kg	0.50	3.4	0.66	7.0	< 0.50	15	< 0.50	2.8
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	4.2	0.81	9.3	< 0.50	18	< 0.50	3.3
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	1.5	< 0.50	3.7	< 0.50	6.6	< 0.50	1.2
Benzo[a]pyrene	M	2790	mg/kg	0.50	3.0	< 0.50	7.8	< 0.50	14	< 0.50	2.7
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	1.6	< 0.50	3.7	< 0.50	6.7	< 0.50	1.3
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	< 0.50	< 0.50	1.2	< 0.50	1.9	< 0.50	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	2.0	< 0.50	4.5	< 0.50	8.1	< 0.50	1.5
Arsenic	M	2450	mg/kg	1.0		41	67	16	110		170
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40		< 0.40	1.2	< 0.40	2.6		0.43
Cadmium	M	2450	mg/kg	0.10		0.28	0.69	< 0.10	0.47		0.28
Chromium	M	2450	mg/kg	1.0		27	36	32	75		74
Chromium (Trivalent)	N	2490	mg/kg	1.0		27	36	32	75		74
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Copper	M	2450	mg/kg	0.50		79	110	33	170		210
Lead	M	2450	mg/kg	0.50		160	700	81	8100		290
Mercury	M	2450	mg/kg	0.10		0.38	0.42	0.10	0.88		2.1
Nickel	M	2450	mg/kg	0.50		25	45	42	32		57
Selenium	M	2450	mg/kg	0.20		< 0.20	0.67	< 0.20	1.8		0.64
Zinc	M	2450	mg/kg	0.50		130	350	80	290		250

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measuremernt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Appendix **I (continued)**

Groundwater & surface water analytical results

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

Final Report

Report No.:	20-31218-1		
Initial Date of Issue:	20-Nov-2020		
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	George Morton		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		**Date Received:**	17-Nov-2020
Order No.:	PO16752/GML/3043	**Date Instructed:**	17-Nov-2020
No. of Samples:	5		
Turnaround (Wkdays):	7	**Results Due:**	25-Nov-2020
Date Approved:	20-Nov-2020		

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-31218	20-31218	20-31218	20-31218	20-31218
Quotation No.:		**Chemtest Sample ID.:**			1097614	1097615	1097616	1097617	1097618
		Client Sample ID.:			1	1	1	1	1
		Sample Location:			PH513	PH515	PH520	BH508	BH509
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Chromatogram (VOC)	N			N/A		See Attached			
pH	U	1010		N/A	7.5	4.3	7.2	7.3	7.2
Electrical Conductivity	U	1020	µS/cm	1.0	970	14000	3500	910	1000
Arsenic (Dissolved)	U	1450	µg/l	1.0	< 1.0	6.4	3.3	< 1.0	< 1.0
Boron (Dissolved)	U	1450	µg/l	20	110	1200	380	88	160
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	27	0.47	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	µg/l	1.0	15	24	2.7	1.6	5.8
Copper (Dissolved)	U	1450	µg/l	1.0	1.5	170	4.5	1.2	< 1.0
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	3.2	1900	32	11	4.2
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	270	1.1	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	2.6	8.1	1.8	< 1.0	< 1.0
Zinc (Dissolved)	U	1450	µg/l	1.0	5.8	5600	150	21	11
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.7
Bromochloromethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	1760	µg/l	1.0	< 1.0	43	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Toluene	U	1760	µg/l	1.0	< 1.0	8.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-31218	20-31218	20-31218	20-31218	20-31218
Quotation No.:		**Chemtest Sample ID.:**			1097614	1097615	1097616	1097617	1097618
		Client Sample ID.:			1	1	1	1	1
		Sample Location:			PH513	PH515	PH520	BH508	BH509
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	4.4	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	6.8	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	4.4	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-31218	20-31218	20-31218	20-31218	20-31218
Quotation No.:		**Chemtest Sample ID.:**			1097614	1097615	1097616	1097617	1097618
		Client Sample ID.:			1	1	1	1	1
		Sample Location:			PH513	PH515	PH520	BH508	BH509
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
4-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

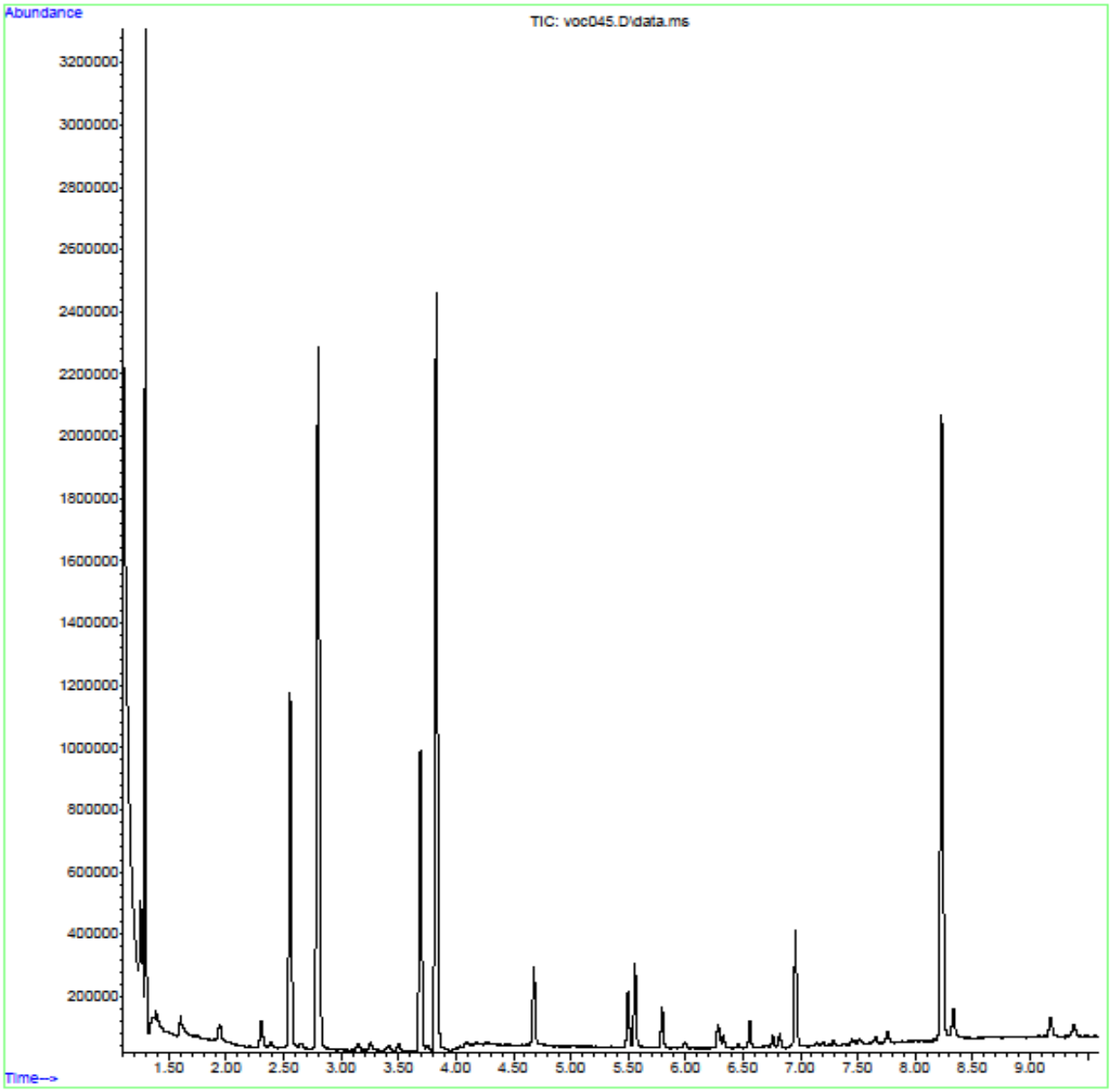
Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-31218	20-31218	20-31218	20-31218	20-31218
Quotation No.:		**Chemtest Sample ID.:**			1097614	1097615	1097616	1097617	1097618
		Client Sample ID.:			1	1	1	1	1
		Sample Location:			PH513	PH515	PH520	BH508	BH509
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020	13-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Butylbenzyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
VOC TIC	N	1760	µg/l	N/A		None Detected			

VOC Chromatogram on Water Sample: 1097615

```
File        :D:\MassHunter\GCMS\1\data\2020\11-November\VOCF470\voc045.D
Operator    : KOK/ECH
Acquired    : 19 Nov 2020  04:23      using AcqMethod FASTvoc_SCAN_ACQ_ms17.M
Instrument :   HSGCMSA
Sample Name: 20-31218_1097615_wx1
Misc Info  :
Vial Number: 45
```



Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

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

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Final Report

Report No.:	20-32890-1		
Initial Date of Issue:	07-Dec-2020		
Client	Lithos Consulting		
Client Address:	Walton Road Wetherby LS22 5DZ		
Contact(s):	Kelvin Eady Ashley Taylor Liz Hart		
Project	3043 Westgate, Cleckheaton		
Quotation No.:		**Date Received:**	01-Dec-2020
Order No.:	PO16824 (010/3034/LH/AT)	**Date Instructed:**	01-Dec-2020
No. of Samples:	5		
Turnaround (Wkdays):	5	**Results Due:**	07-Dec-2020
Date Approved:	07-Dec-2020		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-32890	20-32890	20-32890	20-32890	20-32890
Quotation No.:		**Chemtest Sample ID.:**			1106640	1106641	1106642	1106643	1106644
		Client Sample ID.:			GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1
		Sample Location:			PH508	BH508	PH516	PH518	PH519
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
pH	U	1010		N/A	8.0	8.0		6.5	6.8
Arsenic (Dissolved)	U	1450	µg/l	1.0	2.2	< 1.0		< 1.0	3.6
Boron (Dissolved)	U	1450	µg/l	20	190	60		450	210
Cadmium (Dissolved)	U	1450	µg/l	0.080	0.13	< 0.080		< 0.080	0.22
Chromium (Dissolved)	U	1450	µg/l	1.0	1.3	6.3		< 1.0	1.2
Copper (Dissolved)	U	1450	µg/l	1.0	< 1.0	2.0		1.5	2.8
Mercury (Dissolved)	U	1450	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Nickel (Dissolved)	U	1450	µg/l	1.0	1.9	9.7		< 1.0	< 1.0
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0		< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	1.1	< 1.0		1.0	2.2
Zinc (Dissolved)	U	1450	µg/l	1.0	19	20		40	98
Dichlorodifluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-32890	20-32890	20-32890	20-32890	20-32890
Quotation No.:		**Chemtest Sample ID.:**			1106640	1106641	1106642	1106643	1106644
		Client Sample ID.:			GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1
		Sample Location:			PH508	BH508	PH516	PH518	PH519
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Chlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Phenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting			**Chemtest Job No.:**		20-32890	20-32890	20-32890	20-32890	20-32890
Quotation No.:			**Chemtest Sample ID.:**		1106640	1106641	1106642	1106643	1106644
			Client Sample ID.:		GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1
			Sample Location:		PH508	BH508	PH516	PH518	PH519
			Sample Type:		WATER	WATER	WATER	WATER	WATER
			Date Sampled:		27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Isophorone	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,4-Dichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Naphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Methylnaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Hexachlorocyclopentadiene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Fluorene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Azobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Carbazole	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzo[a]anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50

Results - Water

Project: 3043 Westgate, Cleckheaton

Client: Lithos Consulting		**Chemtest Job No.:**			20-32890	20-32890	20-32890	20-32890	20-32890
Quotation No.:		**Chemtest Sample ID.:**			1106640	1106641	1106642	1106643	1106644
		Client Sample ID.:			GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1	GB1, PB1, V1
		Sample Location:			PH508	BH508	PH516	PH518	PH519
		Sample Type:			WATER	WATER	WATER	WATER	WATER
		Date Sampled:			27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020	27-Nov-2020
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Chrysene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzo[k]fluoranthene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzo[a]pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.50	< 0.50	< 0.50		< 0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Certificate of Analysis

Certificate Number	19-00769
	21-Jan-19
Client	Lithos Consulting Ltd Parkhill Walton Rd Wetherby LS22 5DZ
Our Reference	19-00769
Client Reference	3043
Order No	PO14032
Contract Title	Westgate, Cleckheaton
Description	6 Water samples.
Date Received	16-Jan-19
Date Started	16-Jan-19
Date Completed	21-Jan-19
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Water Samples

Our Ref 19-00769
Client Ref 3043
Contract Title Westgate, Cleckheaton

			Lab No	1445465	1445468
			Sample ID	US	DS
			Depth		
			Other ID	1	1
			Sample Type	WATER	WATER
			Sampling Date	14/01/19	14/01/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.92	0.68
Boron, Dissolved	DETSC 2306*	12	ug/l	44	29
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	0.61	0.28
Copper, Dissolved	DETSC 2306	0.4	ug/l	2.9	2.1
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.66	0.29
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	1.9
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	14	8.6
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	673	682
pH	DETSC 2008			8	7.6
Alkalinity, Carbonate as CaCO3	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	0.04	mg/l	< 0.04	< 0.04
Sulphide	DETSC 2208	10	ug/l	< 10	< 10

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-00769
Client Ref 3043
Contract Title Westgate, Cleckheaton

			Lab No	1445466	1445467	1445469	1445470
			Sample ID	US	US	DS	DS
			Depth				
			Other ID	2	3	2	3
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
VOCs							
Dichlorodifluoromethane	DETSC 3432	1	ug/l		< 1		< 1
Chloromethane	DETSC 3432	1	ug/l		< 1		< 1
Vinyl Chloride	DETSC 3432	1	ug/l		< 1		< 1
Bromomethane	DETSC 3432	1	ug/l		< 1		< 1
Chloroethane	DETSC 3432	1	ug/l		< 1		< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l		< 1		< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
Methylene Chloride	DETSC 3432*	27	ug/l		< 27		< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
1,1-dichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
2,2-dichloropropane	DETSC 3432	2	ug/l		< 2		< 2
Bromochloromethane	DETSC 3432	4	ug/l		< 4		< 4
Chloroform	DETSC 3432	1	ug/l		3		2
1,1,1-trichloroethane	DETSC 3432	1	ug/l		< 1		< 1
1,1-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
Carbon tetrachloride	DETSC 3432	1	ug/l		< 1		< 1
Benzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Trichloroethylene	DETSC 3432*	1	ug/l		< 1		< 1
1,2-dichloropropane	DETSC 3432	1	ug/l		< 1		< 1
Dibromomethane	DETSC 3432	1	ug/l		< 1		< 1
Bromodichloromethane	DETSC 3432	4	ug/l		< 4		< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
Toluene	DETSC 3432	1	ug/l		< 1		< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Tetrachloroethylene	DETSC 3432	1	ug/l		< 1		< 1
1,3-dichloropropane	DETSC 3432	1	ug/l		< 1		< 1
Dibromochloromethane	DETSC 3432	1	ug/l		< 1		< 1
1,2-dibromoethane	DETSC 3432	1	ug/l		< 1		< 1
Chlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l		< 1		< 1
Ethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
m+p-Xylene	DETSC 3432	2	ug/l		< 2		< 2
o-Xylene	DETSC 3432	1	ug/l		< 1		< 1
Styrene	DETSC 3432	1	ug/l		< 1		< 1
Bromoform	DETSC 3432	1	ug/l		< 1		< 1
Isopropylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l		< 1		< 1
Bromobenzene	DETSC 3432	1	ug/l		< 1		< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-00769
Client Ref 3043
Contract Title Westgate, Cleckheaton

			Lab No	1445466	1445467	1445469	1445470
			Sample ID	US	US	DS	DS
			Depth				
			Other ID	2	3	2	3
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
1,2,3-trichloropropane	DETSC 3432	1	ug/l		< 1		< 1
n-propylbenzene	DETSC 3432	1	ug/l		< 1		< 1
2-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
4-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
Tert-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
sec-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
p-isopropyltoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l		< 2		< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
n-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l		< 1		< 1
Naphthalene	DETSC 3432	1	ug/l		< 1		< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
MTBE	DETSC 3432*	1	ug/l		< 1		< 1
SVOCs							
Phenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Aniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Naphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-00769
Client Ref 3043
Contract Title Westgate, Cleckheaton

			Lab No	1445466	1445467	1445469	1445470
			Sample ID	US	US	DS	DS
			Depth				
			Other ID	2	3	2	3
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	14/01/19	14/01/19	14/01/19	14/01/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluorene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Chrysene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Azobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Carbazole	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Key: * -not accredited. n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 19-00769
Client Ref 3043
Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1445465	US WATER	14/01/19	PB 1L		
1445466	US WATER	14/01/19	GB 1L		
1445467	US WATER	14/01/19	GV x2		
1445468	DS WATER	14/01/19	PB 1L		
1445469	DS WATER	14/01/19	GB 1L		
1445470	DS WATER	14/01/19	GV x2		

Key: P-Plastic B-Bottle G-Glass V-Vial

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

Disposal

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

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

Certificate of Analysis

Certificate Number 19-07101

24-Apr-19

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 19-07101

Client Reference 3043

Order No 14416

Contract Title Westgate Cleckheaton

Description 2 Water samples.

Date Received 16-Apr-19

Date Started 16-Apr-19

Date Completed 24-Apr-19

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.72	0.99
Boron, Dissolved	DETSC 2306*	12	ug/l	35	32
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.6	1.6
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.11	0.23
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	2.8	2.3
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	3.7	3.5
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	577	552
pH	DETSC 2008			7.6	7.5
Alkalinity, Carbonate as CaCO3	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Sulphide	DETSC 2208	10	ug/l	30	17

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
VOCs					
Dichlorodifluoromethane	DETSC 3432	1	ug/l	< 1	< 1
Chloromethane	DETSC 3432	1	ug/l	< 1	< 1
Vinyl Chloride	DETSC 3432	1	ug/l	< 1	< 1
Bromomethane	DETSC 3432	1	ug/l	< 1	< 1
Chloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l	< 1	< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
Methylene Chloride	DETSC 3432*	27	ug/l	< 27	< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l	< 1	< 1
2,2-dichloropropane	DETSC 3432	2	ug/l	< 2	< 2
Bromochloromethane	DETSC 3432	4	ug/l	< 4	< 4
Chloroform	DETSC 3432	1	ug/l	2	2
1,1,1-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
1,1-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Carbon tetrachloride	DETSC 3432	1	ug/l	< 1	< 1
Benzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Trichloroethylene	DETSC 3432*	1	ug/l	< 1	< 1
1,2-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromomethane	DETSC 3432	1	ug/l	< 1	< 1
Bromodichloromethane	DETSC 3432	4	ug/l	< 4	< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
Toluene	DETSC 3432	1	ug/l	< 1	< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l	< 1	< 1
Tetrachloroethylene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichloropropane	DETSC 3432	1	ug/l	< 1	< 1
Dibromochloromethane	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromoethane	DETSC 3432	1	ug/l	< 1	< 1
Chlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Ethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
m+p-Xylene	DETSC 3432	2	ug/l	< 2	< 2
o-Xylene	DETSC 3432	1	ug/l	< 1	< 1
Styrene	DETSC 3432	1	ug/l	< 1	< 1
Bromoform	DETSC 3432	1	ug/l	< 1	< 1
Isopropylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l	< 1	< 1
Bromobenzene	DETSC 3432	1	ug/l	< 1	< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
1,2,3-trichloropropane	DETSC 3432	1	ug/l	< 1	< 1
n-propylbenzene	DETSC 3432	1	ug/l	< 1	< 1
2-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
4-chlorotoluene	DETSC 3432	1	ug/l	< 1	< 1
Tert-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l	< 1	< 1
sec-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
p-isopropyltoluene	DETSC 3432	1	ug/l	< 1	< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l	< 2	< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
n-butylbenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l	< 1	< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l	< 1	< 1
Naphthalene	DETSC 3432	1	ug/l	< 1	< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l	< 1	< 1
MTBE	DETSC 3432*	1	ug/l	< 1	< 1
SVOCs					
Phenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Aniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water Samples

Our Ref 19-07101
Client Ref 3043
Contract Title Westgate Cleckheaton

			Lab No	1489173	1489174
			Sample ID	SW1	SW2
			Depth		
			Other ID	1	4
			Sample Type	WATER	WATER
			Sampling Date	09/04/19	09/04/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluorene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0	< 1.0
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Chrysene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Azobenzene	DETSC 3434*	1	ug/l	< 1.0	< 1.0
Carbazole	DETSC 3434*	1	ug/l	< 1.0	< 1.0
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0	< 1.0

Key: * -not accredited. n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 19-07101
Client Ref 3043
Contract Westgate Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1489173	SW1 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	
1489174	SW2 WATER	09/04/19	GV, PB 1L	Kone (Sulphide) (5 days), pH/Cond/TDS (2 days)	

Key: G-Glass P-Plastic B-Bottle V-Vial

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

Disposal

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

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

Certificate of Analysis

Certificate Number 19-14881

09-Aug-19

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 19-14881

Client Reference 3043

Order No (not supplied)

Contract Title WASTGATE CLECKHEATON

Description 6 Water samples.

Date Received 05-Aug-19

Date Started 05-Aug-19

Date Completed 09-Aug-19

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Water Samples

Our Ref 19-14881
Client Ref 3043
Contract Title WASTGATE CLECKHEATON

			Lab No	1541652	1541655
			Sample ID	SW1	SW2
			Depth		
			Other ID	B1	B4
			Sample Type	WATER	WATER
			Sampling Date	03/07/19	03/07/19
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Metals					
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	1.0	1.2
Boron, Dissolved	DETSC 2306*	12	ug/l	42	40
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.9	1.9
Copper, Dissolved	DETSC 2306	0.4	ug/l	6.3	5.9
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.83	0.90
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	1.4	1.3
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	18	13
Inorganics					
Conductivity	DETSC 2009	1	uS/cm	348	344
pH	DETSC 2008		pH	7.7	7.5
Alkalinity, Carbonate as CaCO3	DETSC 2030*	10	mg/l	< 10	< 10
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40
Sulphide	DETSC 2208	10	ug/l	< 10	< 10

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-14881
Client Ref 3043
Contract Title WASTGATE CLECKHEATON

			Lab No	1541653	1541654	1541656	1541657
			Sample ID	SW1	SW1	SW2	SW2
			Depth				
			Other ID	B2	B3	B5	B6
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	03/07/19	03/07/19	03/07/19	03/07/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
VOCs							
Dichlorodifluoromethane	DETSC 3432	1	ug/l		< 1		< 1
Chloromethane	DETSC 3432	1	ug/l		< 1		< 1
Vinyl Chloride	DETSC 3432	1	ug/l		< 1		< 1
Bromomethane	DETSC 3432	1	ug/l		< 1		< 1
Chloroethane	DETSC 3432	1	ug/l		< 1		< 1
Trichlorofluoromethane	DETSC 3432*	1	ug/l		< 1		< 1
1,1-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
Methylene Chloride	DETSC 3432*	27	ug/l		< 27		< 27
Trans-1,2-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
1,1-dichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Cis-1,2-dichloroethylene	DETSC 3432	1	ug/l		< 1		< 1
2,2-dichloropropane	DETSC 3432	2	ug/l		< 2		< 2
Bromochloromethane	DETSC 3432	4	ug/l		< 4		< 4
Chloroform	DETSC 3432	1	ug/l		1		< 1
1,1,1-trichloroethane	DETSC 3432	1	ug/l		< 1		< 1
1,1-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
Carbon tetrachloride	DETSC 3432	1	ug/l		< 1		< 1
Benzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Trichloroethylene	DETSC 3432*	1	ug/l		< 1		< 1
1,2-dichloropropane	DETSC 3432	1	ug/l		< 1		< 1
Dibromomethane	DETSC 3432	1	ug/l		< 1		< 1
Bromodichloromethane	DETSC 3432	4	ug/l		< 4		< 4
cis-1,3-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
Toluene	DETSC 3432	1	ug/l		< 1		< 1
trans-1,3-dichloropropene	DETSC 3432	1	ug/l		< 1		< 1
1,1,2-trichloroethane	DETSC 3432	1	ug/l		< 1		< 1
Tetrachloroethylene	DETSC 3432	1	ug/l		< 1		< 1
1,3-dichloropropane	DETSC 3432	1	ug/l		< 1		< 1
Dibromochloromethane	DETSC 3432	1	ug/l		< 1		< 1
1,2-dibromoethane	DETSC 3432	1	ug/l		< 1		< 1
Chlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
1,1,1,2-tetrachloroethane	DETSC 3432	1	ug/l		< 1		< 1
Ethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
m+p-Xylene	DETSC 3432	2	ug/l		< 2		< 2
o-Xylene	DETSC 3432	1	ug/l		< 1		< 1
Styrene	DETSC 3432	1	ug/l		< 1		< 1
Bromoform	DETSC 3432	1	ug/l		< 1		< 1
Isopropylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,1,2,2-tetrachloroethane	DETSC 3432	1	ug/l		< 1		< 1
Bromobenzene	DETSC 3432	1	ug/l		< 1		< 1

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-14881
Client Ref 3043
Contract Title WASTGATE CLECKHEATON

			Lab No	1541653	1541654	1541656	1541657
			Sample ID	SW1	SW1	SW2	SW2
			Depth				
			Other ID	B2	B3	B5	B6
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	03/07/19	03/07/19	03/07/19	03/07/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
1,2,3-trichloropropane	DETSC 3432	1	ug/l		< 1		< 1
n-propylbenzene	DETSC 3432	1	ug/l		< 1		< 1
2-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3,5-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
4-chlorotoluene	DETSC 3432	1	ug/l		< 1		< 1
Tert-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trimethylbenzene	DETSC 3432	1	ug/l		< 1		< 1
sec-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
p-isopropyltoluene	DETSC 3432	1	ug/l		< 1		< 1
1,3-dichlorobenzene	DETSC 3432	2	ug/l		< 2		< 2
1,4-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
n-butylbenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
1,2-dibromo-3-chloropropane	DETSC 3432	1	ug/l		< 1		< 1
1,2,4-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
Hexachlorobutadiene	DETSC 3432	1	ug/l		< 1		< 1
Naphthalene	DETSC 3432	1	ug/l		< 1		< 1
1,2,3-trichlorobenzene	DETSC 3432	1	ug/l		< 1		< 1
MTBE	DETSC 3432*	1	ug/l		< 1		< 1
SVOCs							
Phenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Aniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzyl Alcohol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroisopropyl)ether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3&4-Methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-chloroethoxy)methane	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dimethylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,2,4-Trichlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Naphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chloro-3-methylphenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorocyclopentadiene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,6-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4,5-Trichlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Chloronaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,4-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Acenaphthylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
3-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Key: * -not accredited. n/s -not supplied.

Summary of Chemical Analysis
Water VOC/SVOC Samples

Our Ref 19-14881
Client Ref 3043
Contract Title WASTGATE CLECKHEATON

			Lab No	1541653	1541654	1541656	1541657
			Sample ID	SW1	SW1	SW2	SW2
			Depth				
			Other ID	B2	B3	B5	B6
			Sample Type	WATER	WATER	WATER	WATER
			Sampling Date	03/07/19	03/07/19	03/07/19	03/07/19
			Sampling Time	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Acenaphthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitrophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzofuran	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,6-Dinitrotoluene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,4,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Chlorophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluorene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Nitroaniline	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Diphenylamine	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
4-Bromophenylphenylether	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Hexachlorobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)ester	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pentachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Phenanthrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-butylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Butylbenzylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Chrysene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Bis(2-ethylhexyl)phthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Di-n-octylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(b)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(k)fluoranthene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(a)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Indeno(123cd)pyrene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dibenzo(ah)anthracene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Benzo(ghi)perylene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,4-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Dimethylphthalate	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1,3-Dinitrobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
2,3,5,6-Tetrachlorophenol	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Azobenzene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
Carbazole	DETSC 3434*	1	ug/l	< 1.0		< 1.0	
1-Methylnaphthalene	DETSC 3434*	1	ug/l	< 1.0		< 1.0	

Key: * -not accredited. n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 19-14881
Client Ref 3043
Contract WASTGATE CLECKHEATON

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1541652	SW1 WATER	03/07/19	GV, PB 1L	Alkalinity (7 days), Conductivity (28 days), Conductivity (non reportable) (28 days), Kone (Sulphide) (5 days), pH/Cond/TDS (1 days), Metals (Soluble) ICPMS (30 days), Cyanide/Mono pHoh (14 days)	
1541653	SW1 WATER	03/07/19	GV, PB 1L	SVOC (14 days)	
1541654	SW1 WATER	03/07/19	GV, PB 1L	VOC (7 days)	
1541655	SW2 WATER	03/07/19	GV, PB 1L	Alkalinity (7 days), Conductivity (28 days), Conductivity (non reportable) (28 days), Kone (Sulphide) (5 days), pH/Cond/TDS (1 days), Metals (Soluble) ICPMS (30 days), Cyanide/Mono pHoh (14 days)	
1541656	SW2 WATER	03/07/19	GV, PB 1L	SVOC (14 days)	
1541657	SW2 WATER	03/07/19	GV, PB 1L	VOC (7 days)	

Key: G-Glass P-Plastic B-Bottle V-Vial

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

Disposal

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

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

Appendix J

Geotechnical Test Results

LABORATORY REPORT

4043

Contract Number: PSL19/0528

Report Date: 06 February 2019

Client's Reference: 3043

Client Name: Lithos Consulting
Parkhill
Walton Road
Wetherby
North Yorkshire
LS22 5DZ

For the attention of: Josh Jones/Alan Swales

Contract Title: Westgate, Cleckheaton

Date Received: 22/1/2019
Date Commenced: 22/1/2019
Date Completed: 6/2/2019

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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

Checked and Approved Signatories:

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

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Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP402	3	B	3.00		MADE GROUND dark grey clayey silty sand & gravel.
TP423	2	B	0.90		MADE GROUND dark grey very sandy clayey silty gravel with cobbles.
TP413	2	B	1.20		MADE GROUND dark brown very sandy clayey silty gravel.
TP427	3	B	1.20		MADE GROUND dark brown very sandy silty gravel.
TP408	2	B	1.40		MADE GROUND dark brown very sandy clayey silty gravel.
TP431	3	B	1.80		MADE GROUND brown very sandy silty gravel.
TP410	2	B	1.90		MADE GROUND dark brown very sandy gravel.
TP445	1	B	2.60		MADE GROUND dark brown very gravelly very silty sand.
TP416	2	B	2.80		MADE GROUND dark brown very sandy silty gravel.
TP444	2	B	0.70		MADE GROUND brown mottled grey very gravelly very sandy clay.
TP447	1	B	1.50		Brown very gravelly sandy CLAY.
TP437	3	B	0.80		MADE GROUND very sandy very silty gravel.
TT428	3	D	0.80		Brown slightly gravelly sandy very silty CLAY.
TP423	3	D	1.30		Brown slightly gravelly sandy very silty CLAY.
TP421	2	D	2.00		Brown slightly sandy very silty CLAY.
TP427	4	D	2.50		Brown slightly gravelly sandy very silty CLAY.
TP419	3	D	2.60		Dark brown slightly sandy very silty CLAY.
TP404	2	D	0.90		Brown slightly gravelly sandy CLAY.
TP435	2	D	0.90		Brown slightly gravelly sandy CLAY.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP424	2	D	1.30		Brown slightly gravelly sandy CLAY.
TP403	2	D	1.40		Brown sandy CLAY.
TP447	1	D	1.50		Brown slightly gravelly sandy CLAY.
TP434	2	D	1.60		Brown mottled grey very sandy CLAY.
TP405	2	D	1.80		Brown gravelly very sandy CLAY
TP446	3	D	1.80		Brown mottled grey slightly gravelly sandy CLAY.
TP433	2	D	1.90		Brown mottled grey slightly gravelly sandy CLAY.
TP442	4	D	2.00		Brown slightly gravelly very sandy CLAY.
TP444	5	D	2.50		Brown mottled grey slightly sandy CLAY.
TP431	4	D	3.50		Brown slightly gravelly slightly sandy CLAY.
TP439	5	D	4.20		Brown slightly gravelly very sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP402	3	B	3.00		20							
TP423	2	B	0.90		20							
TP413	2	B	1.20		27							
TP427	3	B	1.20		23							
TP408	2	B	1.40		25							
TP431	3	B	1.80		20							
TP410	2	B	1.90		27							
TP445	1	B	2.60		30							
TP416	2	B	2.80		45							
TP444	2	B	0.70		19							
TP447	1	B	1.50		19							
TP437	3	B	0.80		27							
TT428	3	D	0.80		25			41	21	20	97	Intermediate plasticity CI.
TP423	3	D	1.30		29			50	25	25	92	High plasticity CH.
TP421	2	D	2.00		39			54	26	28	100	High plasticity CH.
TP427	4	D	2.50		32			43	23	20	100	Intermediate plasticity CI.
TP419	3	D	2.60		35			58	27	31	100	High plasticity CH.
TP404	2	D	0.90		19			39	19	20	96	Intermediate plasticity CI.
TP435	2	D	0.90		23			45	22	23	94	Intermediate plasticity CI.

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

UKAS TESTING 4043

PSL Professional Soils Laboratory

Westgate, Cleckheaton

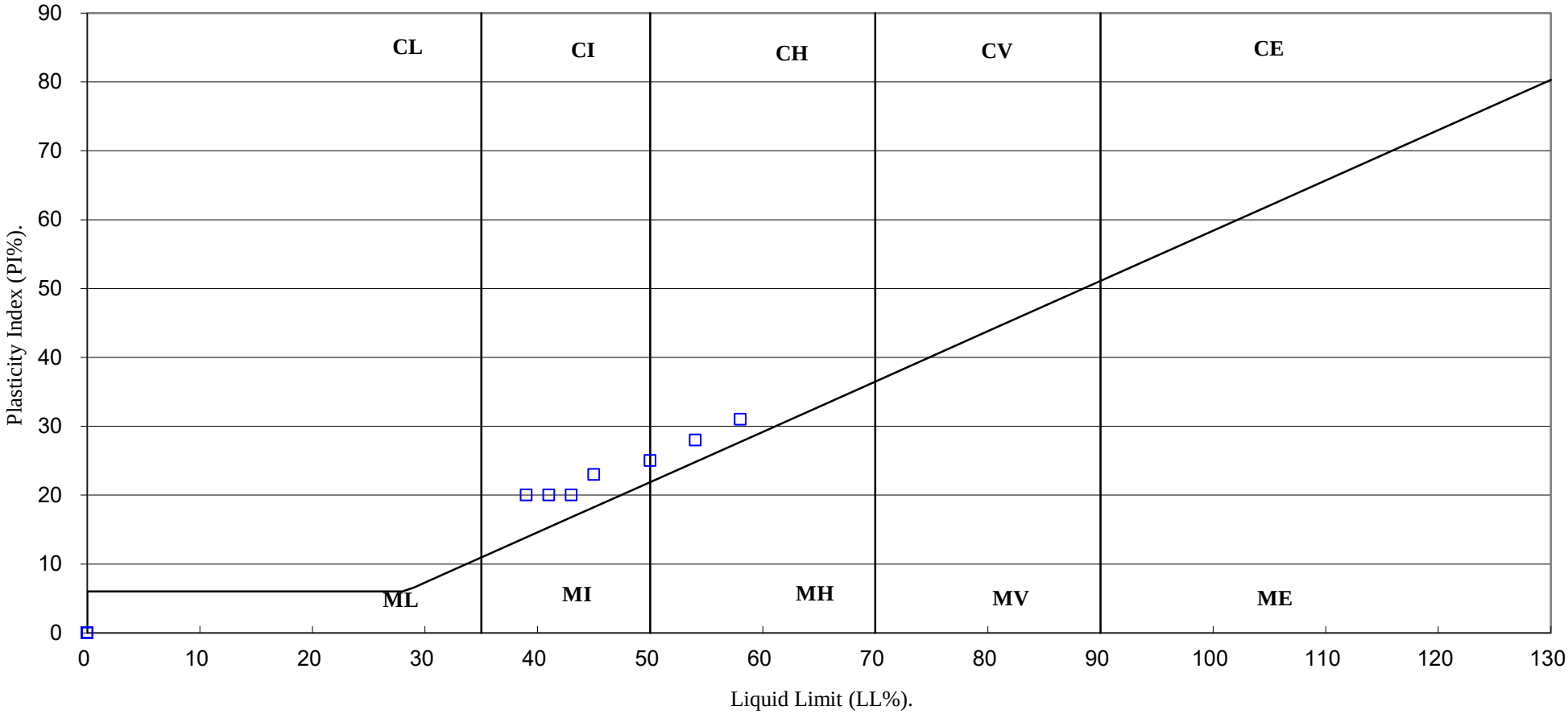
Contract No:

PSL19/0528

Client Ref:

3043

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No:**
			PSL19/0528
			Client Ref:
			3043

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP424	2	D	1.30		20			43	22	21	92	Intermediate plasticity CI.
TP403	2	D	1.40		16			40	20	20	100	Intermediate plasticity CI.
TP447	1	D	1.50		15			41	21	20	94	Intermediate plasticity CI.
TP434	2	D	1.60		15			34	17	17	100	Low plasticity CL.
TP405	2	D	1.80		16			35	18	17	81	Intermediate plasticity CI.
TP446	3	D	1.80		23			41	21	20	96	Intermediate plasticity CI.
TP433	2	D	1.90		19			45	24	21	97	Intermediate plasticity CI.
TP442	4	D	2.00		14			25	15	10	83	Low plasticity CL.
TP444	5	D	2.50		40			64	26	38	100	High plasticity CH.
TP431	4	D	3.50		30			54	26	28	96	High plasticity CH.
TP439	5	D	4.20		19			32	16	16	96	Low plasticity CL.

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

UKAS TESTING 4043

PSL Professional Soils Laboratory

Westgate, Cleckheaton

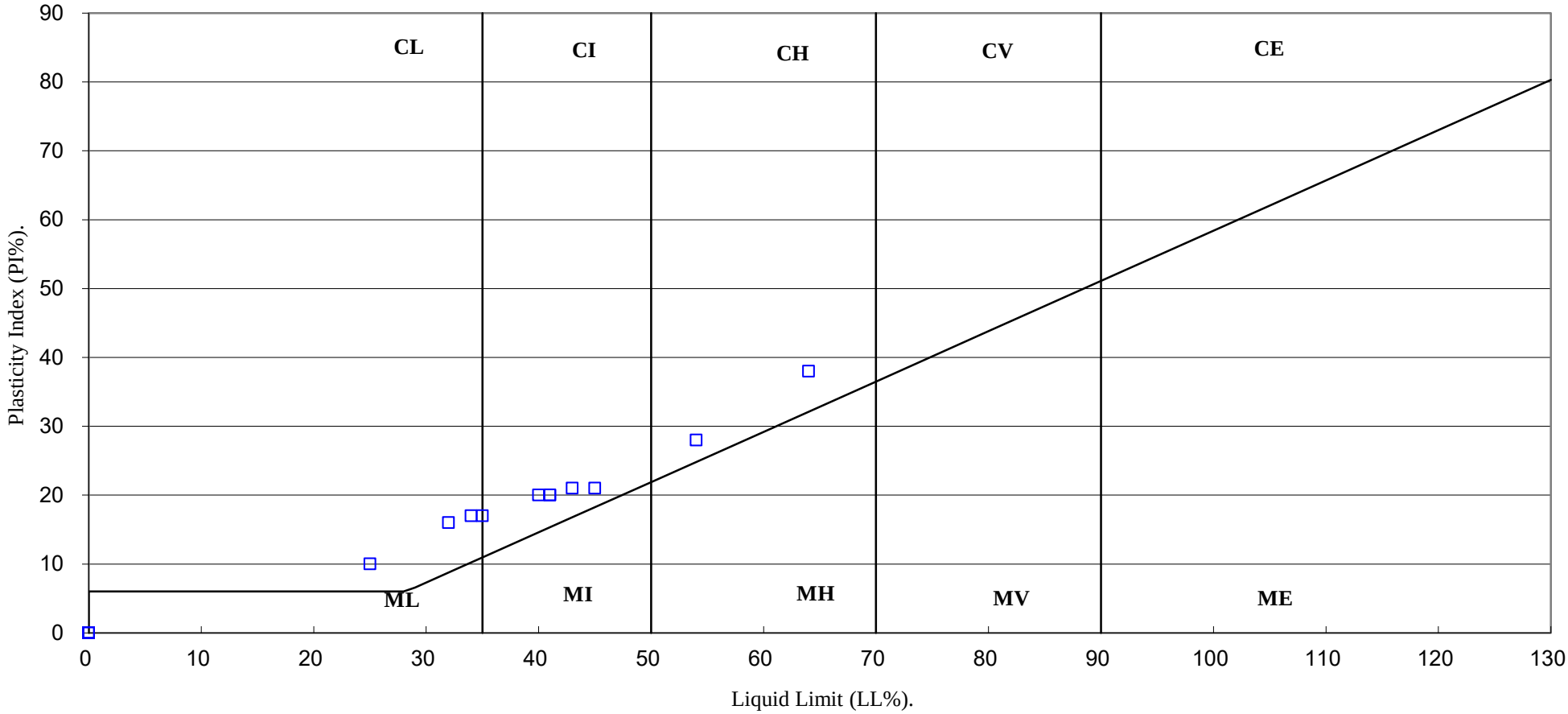
Contract No:

PSL19/0528

Client Ref:

3043

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	Westgate, Cleckheaton	**Contract No:** PSL19/0528
			Client Ref: 3043

PARTICLE SIZE DISTRIBUTION TEST

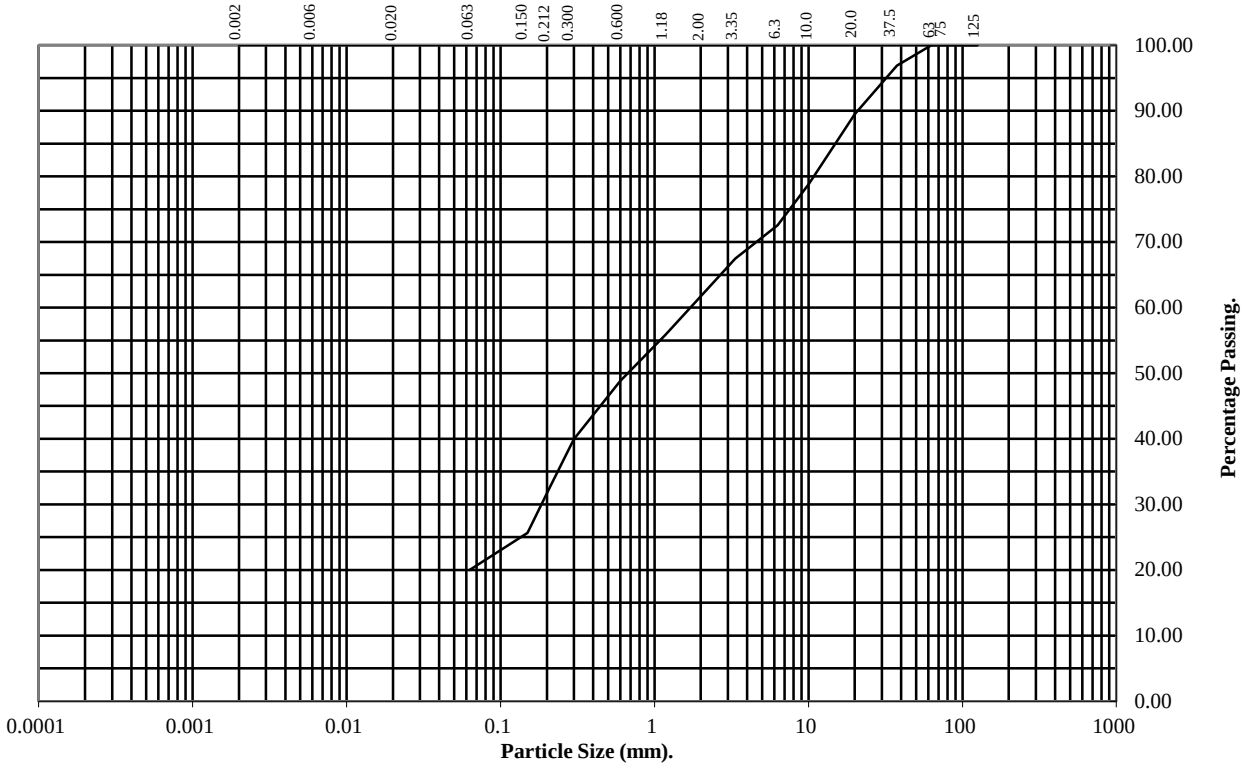
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP402** **Top Depth (m):** **3.00**

Sample Number: **3** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	89
10	79
6.3	73
3.35	67
2	62
1.18	56
0.6	49
0.3	40
0.212	33
0.15	26
0.063	20

Soil Fraction	Total Percentage
Cobbles	0
Gravel	38
Sand	42
Silt/Clay	20

Remarks:

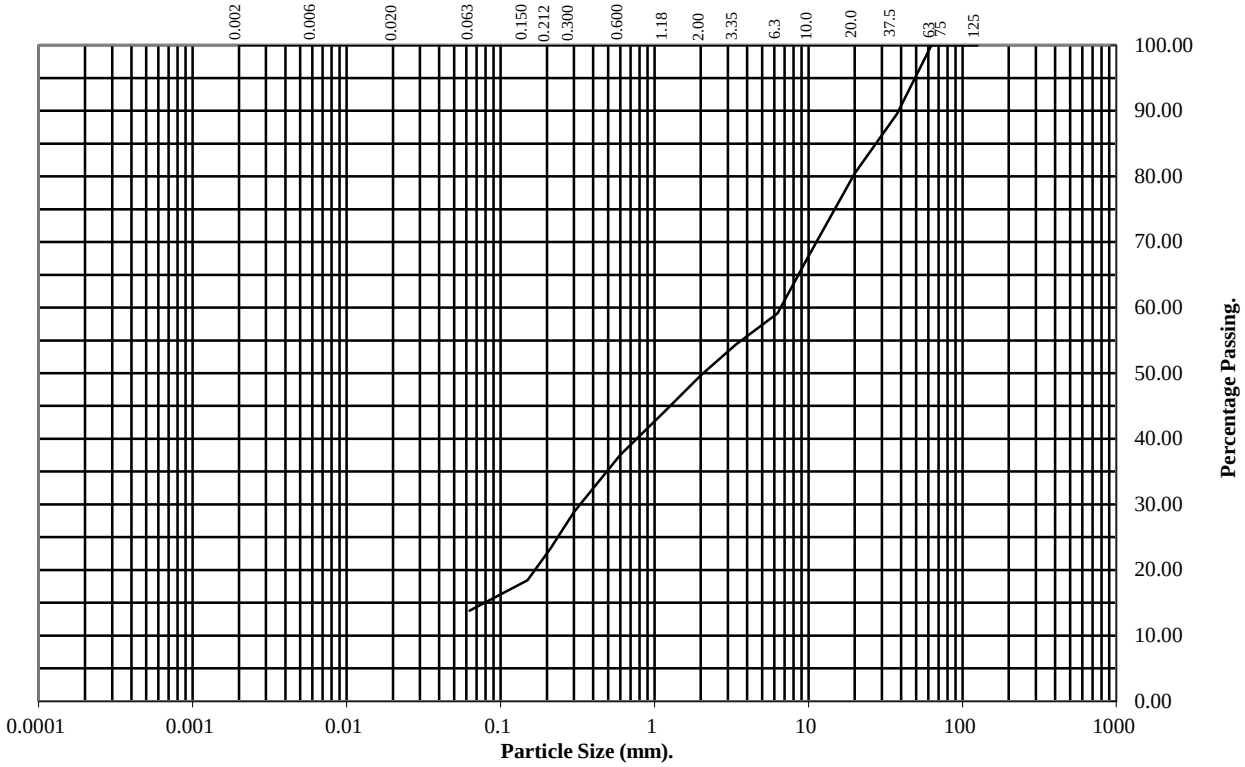
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**TP408**	**Top Depth (m):**	**1.40**
Sample Number:	**2**	**Base Depth(m):**	
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	90
20	80
10	68
6.3	59
3.35	54
2	50
1.18	44
0.6	38
0.3	29
0.212	23
0.15	18
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	50
Sand	36
Silt/Clay	14

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

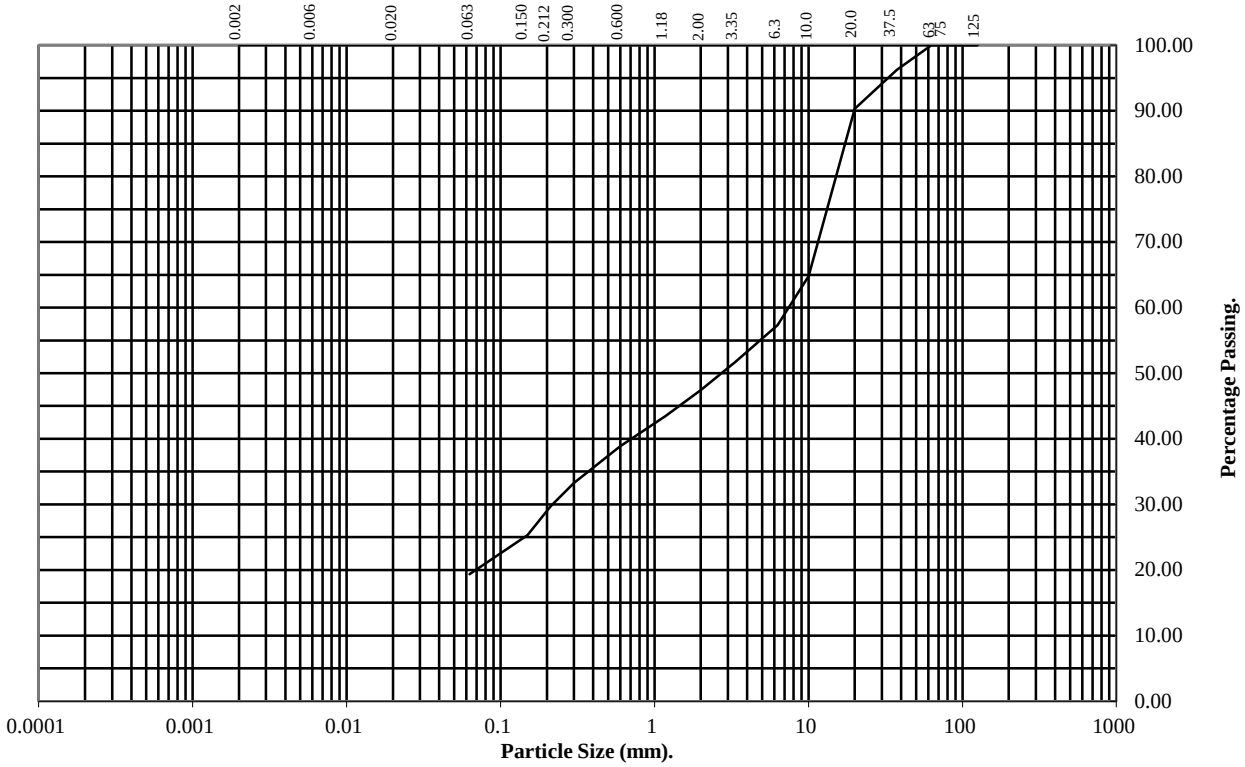
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP413** **Top Depth (m):** **1.20**

Sample Number: **2** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	96
20	90
10	65
6.3	57
3.35	52
2	47
1.18	43
0.6	39
0.3	33
0.212	30
0.15	25
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	53
Sand	28
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

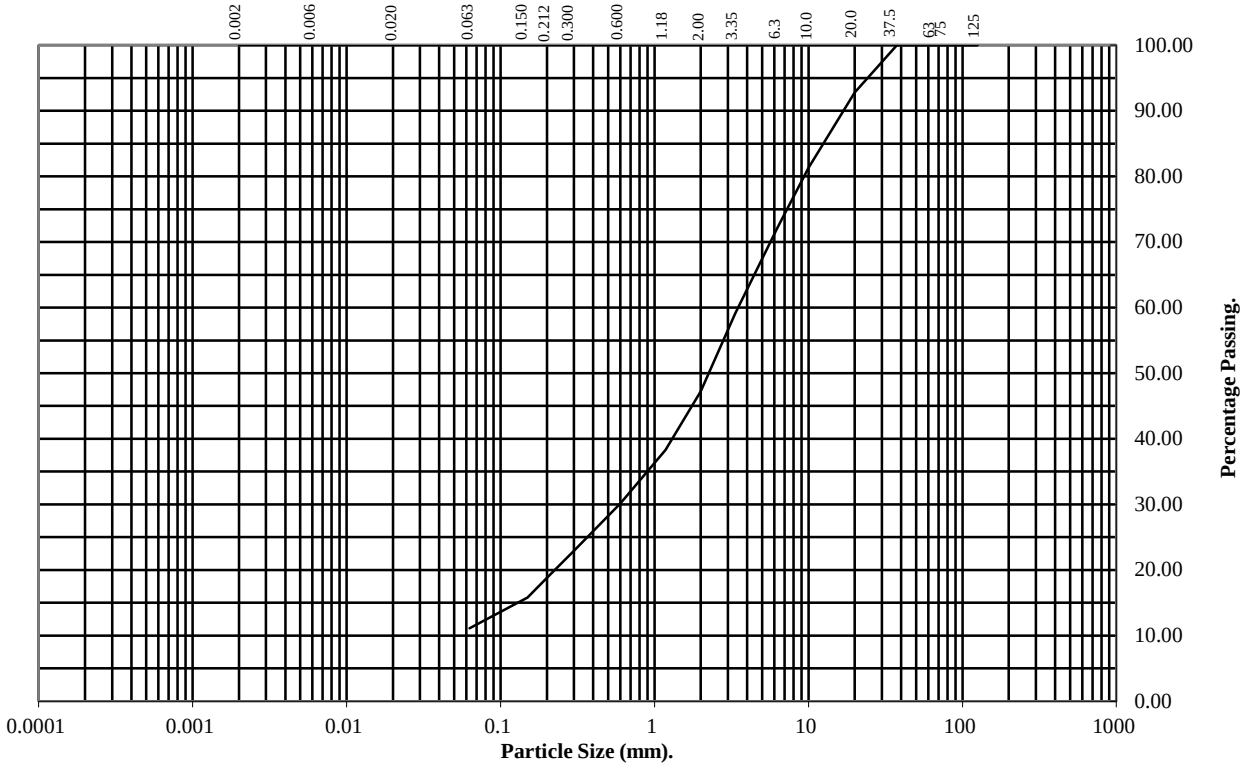
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP416** **Top Depth (m):** **2.80**

Sample Number: **2** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	93
10	81
6.3	72
3.35	59
2	47
1.18	38
0.6	30
0.3	23
0.212	19
0.15	16
0.063	11

Soil Fraction	Total Percentage
Cobbles	0
Gravel	53
Sand	36
Silt/Clay	11

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

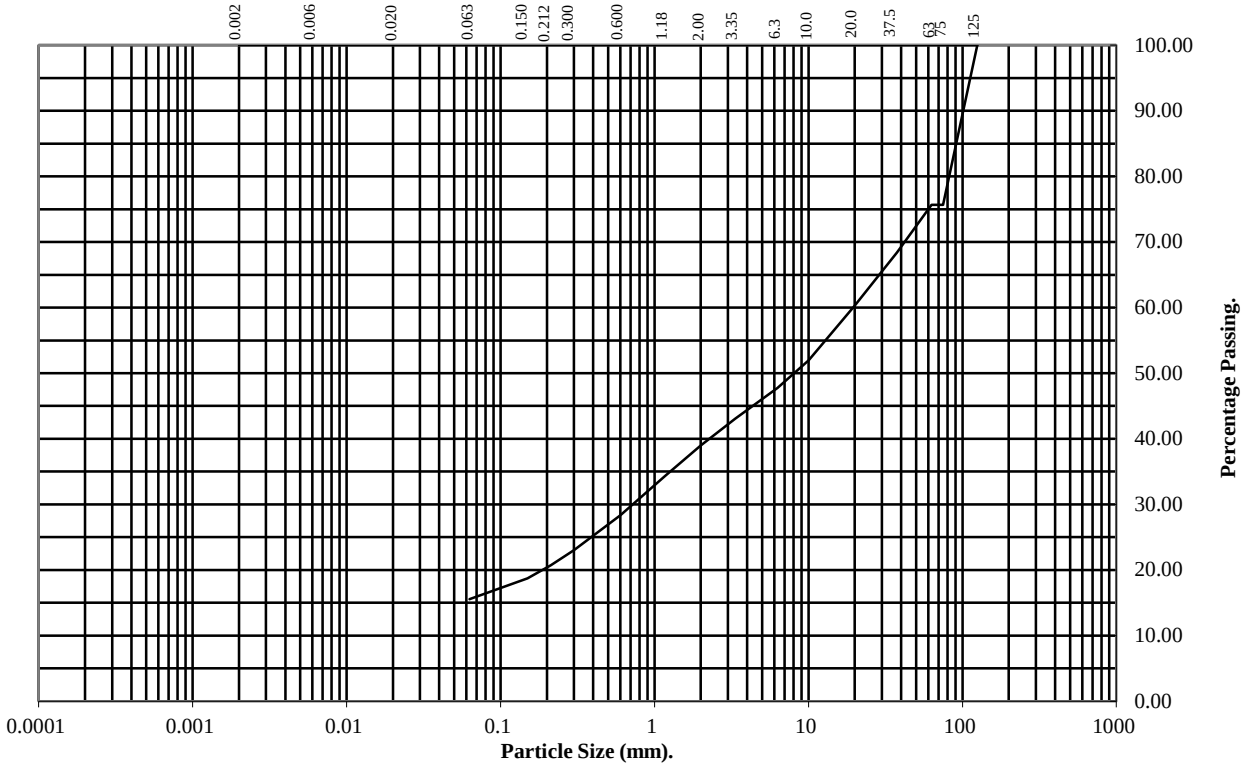
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP423** **Top Depth (m):** **0.90**

Sample Number: **2** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	76
63	76
37.5	68
20	60
10	52
6.3	48
3.35	43
2	39
1.18	34
0.6	28
0.3	23
0.212	21
0.15	19
0.063	16

Soil Fraction	Total Percentage
Cobbles	24
Gravel	37
Sand	23
Silt/Clay	16

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

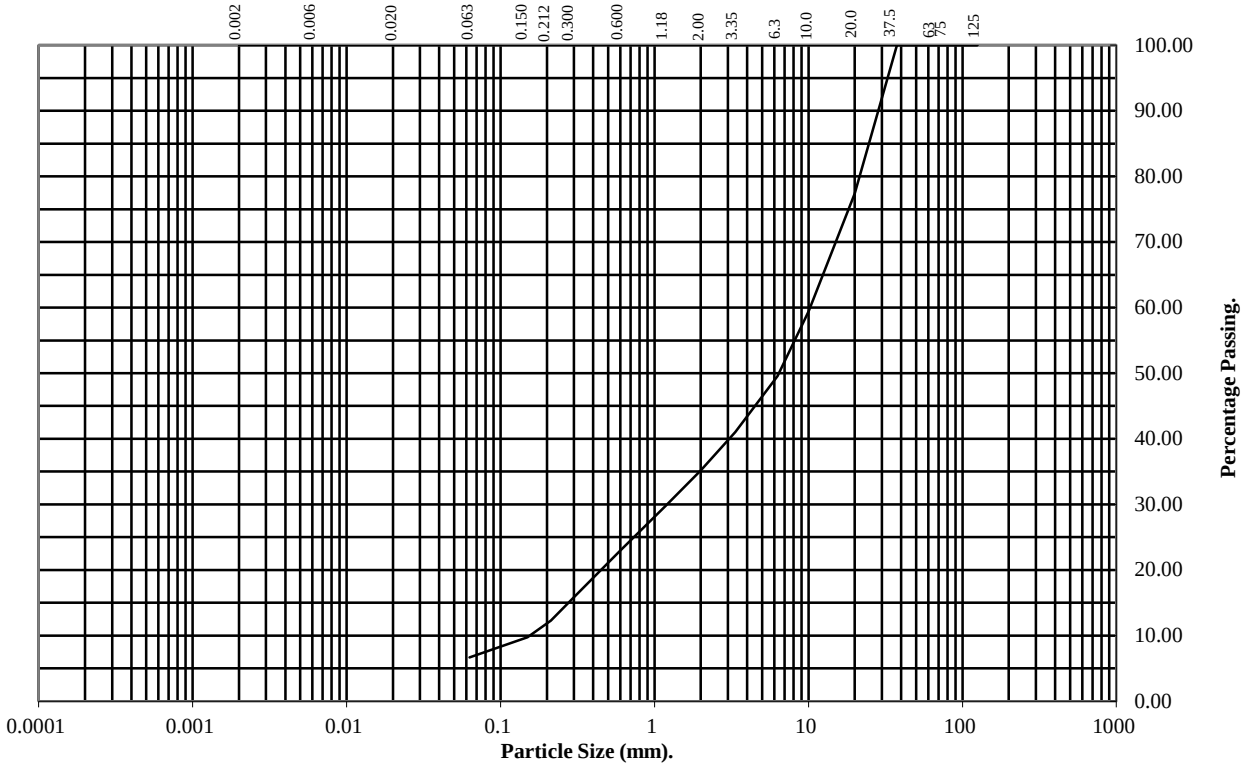
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP431** **Top Depth (m):** **1.80**

Sample Number: **3** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	77
10	59
6.3	50
3.35	41
2	35
1.18	30
0.6	23
0.3	16
0.212	12
0.15	10
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	65
Sand	28
Silt/Clay	7

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

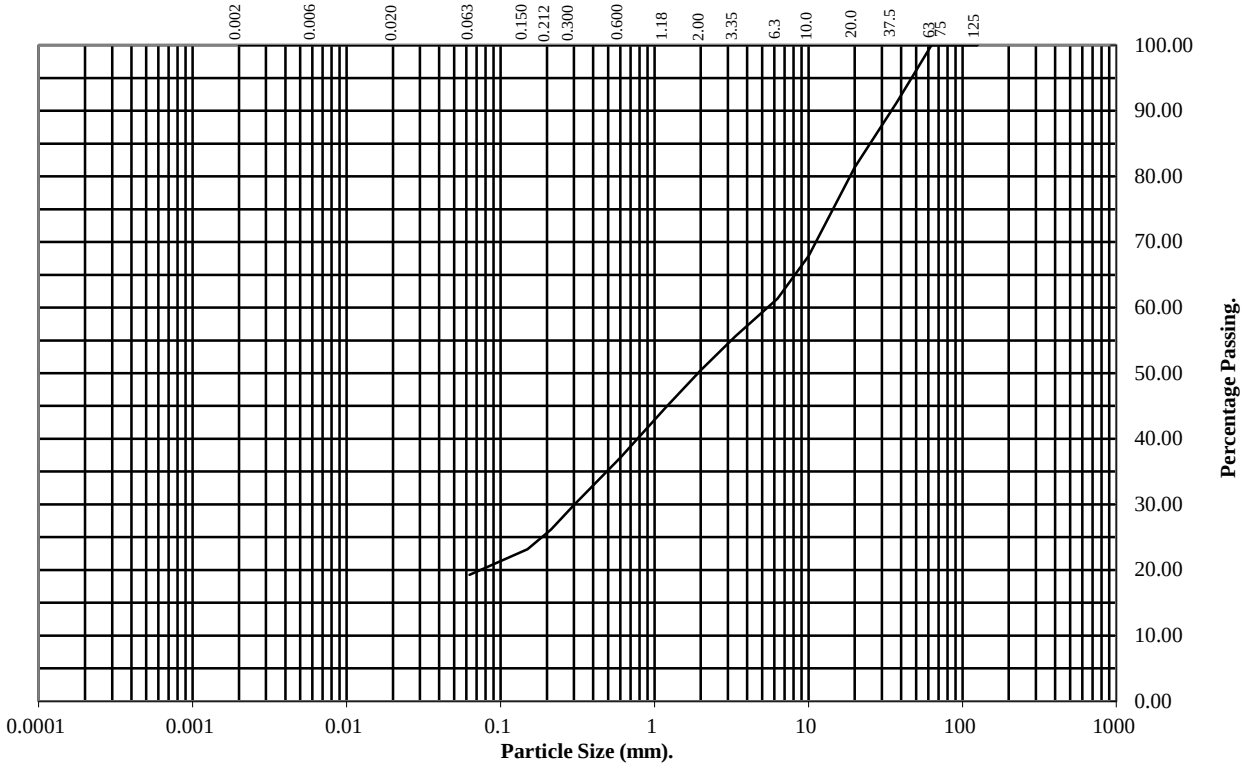
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP437** **Top Depth (m):** **0.80**

Sample Number: **3** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	81
10	68
6.3	61
3.35	56
2	50
1.18	45
0.6	37
0.3	30
0.212	26
0.15	23
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	50
Sand	31
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

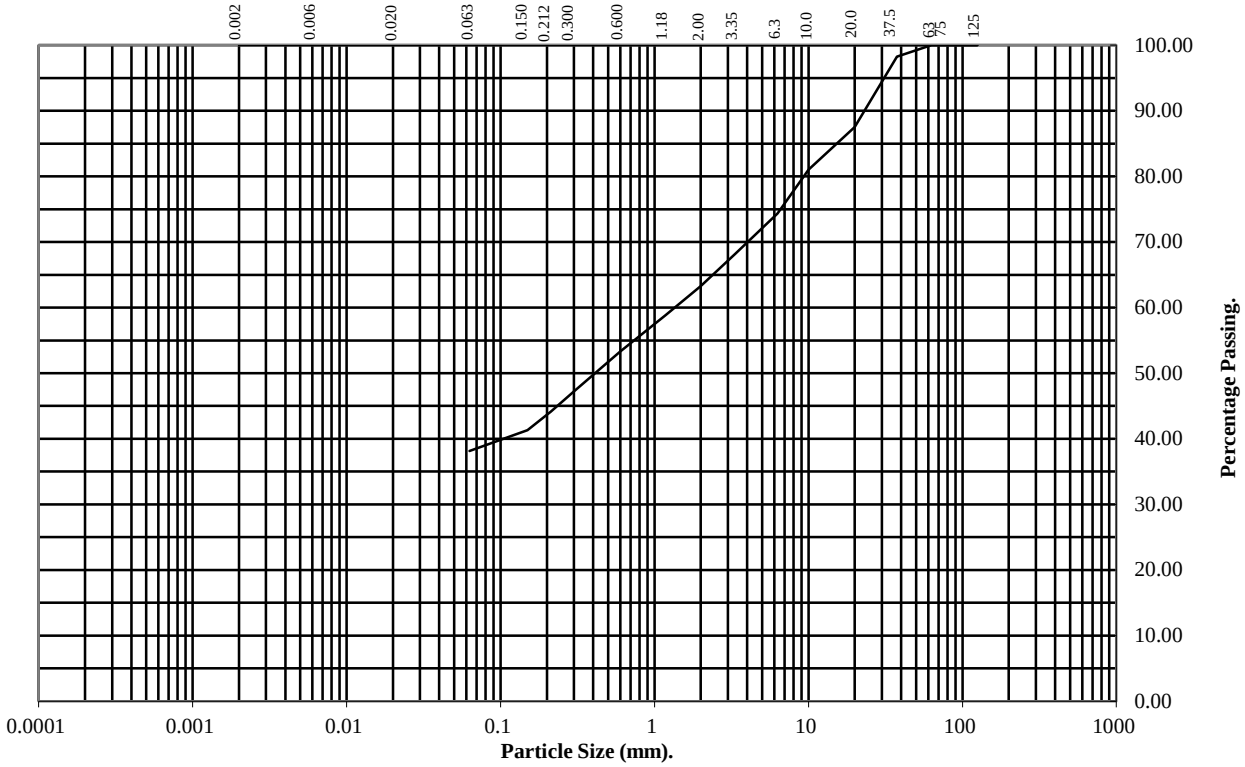
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP444** **Top Depth (m):** **0.70**

Sample Number: **2** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	98
20	88
10	81
6.3	74
3.35	68
2	63
1.18	59
0.6	53
0.3	47
0.212	44
0.15	41
0.063	38

Soil Fraction	Total Percentage
Cobbles	0
Gravel	37
Sand	25
Silt/Clay	38

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

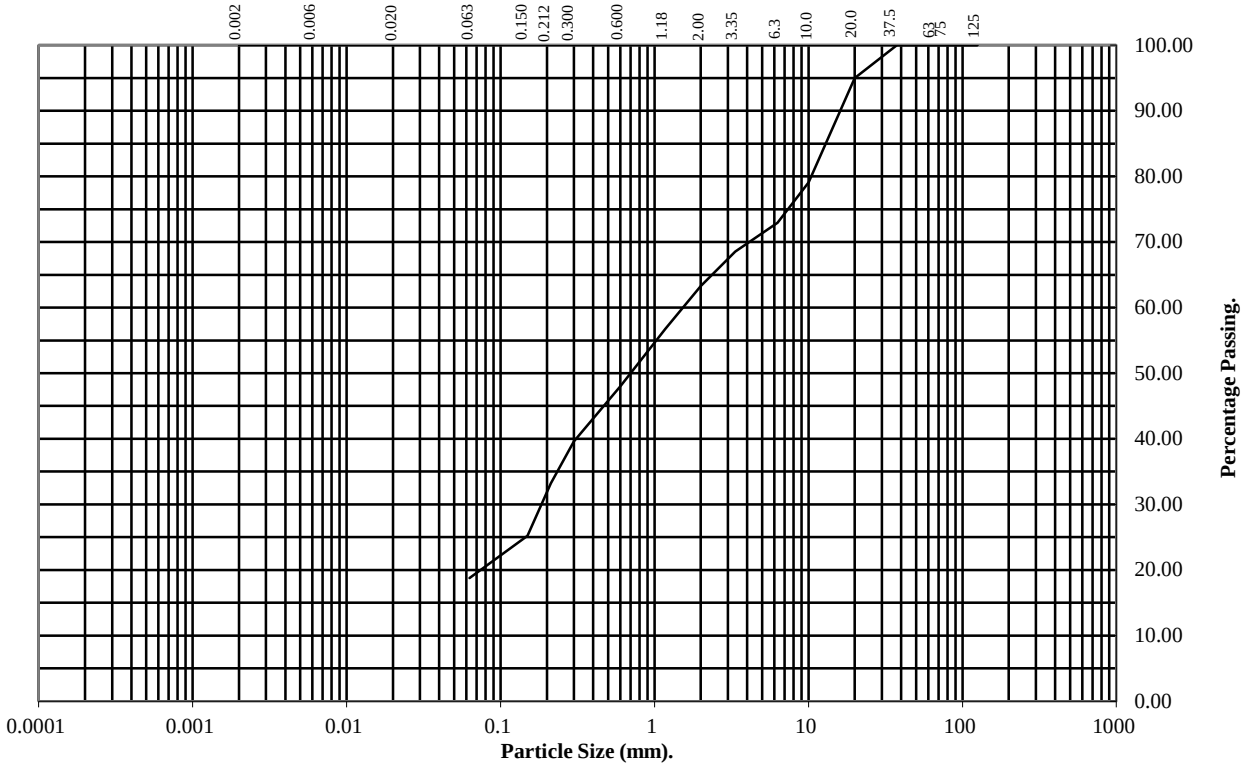
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP445** **Top Depth (m):** **2.60**

Sample Number: **1** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	95
10	79
6.3	73
3.35	69
2	63
1.18	57
0.6	48
0.3	40
0.212	33
0.15	25
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	37
Sand	44
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

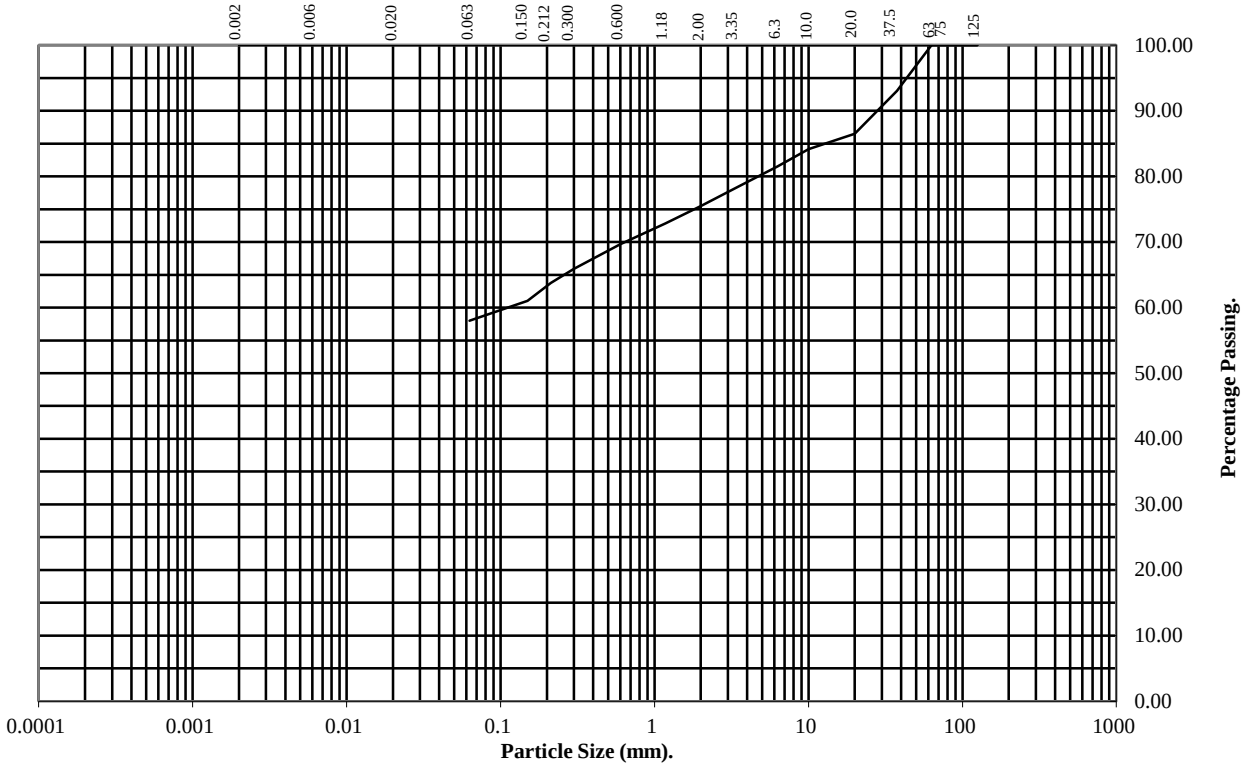
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP447** **Top Depth (m):** **1.50**

Sample Number: **1** **Base Depth(m):**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	93
20	87
10	84
6.3	82
3.35	78
2	75
1.18	73
0.6	70
0.3	66
0.212	64
0.15	61
0.063	58

Soil Fraction	Total Percentage
Cobbles	0
Gravel	25
Sand	17
Silt/Clay	58

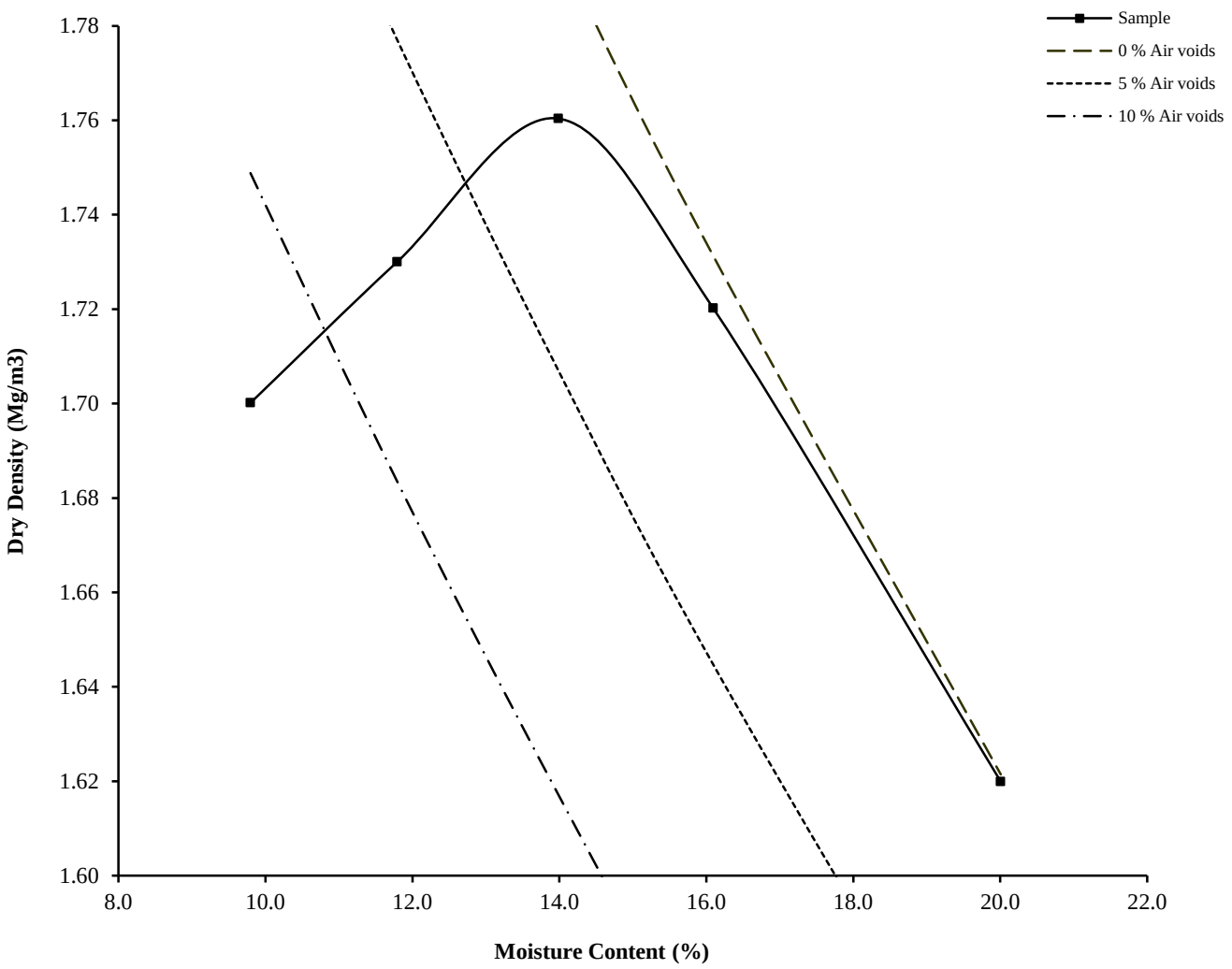
Remarks:

See Summary of Soil Descriptions

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP402**	**Top Depth (m) :**	**3.00**
Sample Number:	**3**	**Base Depth (m) :**	
Sample Type:	**B**		

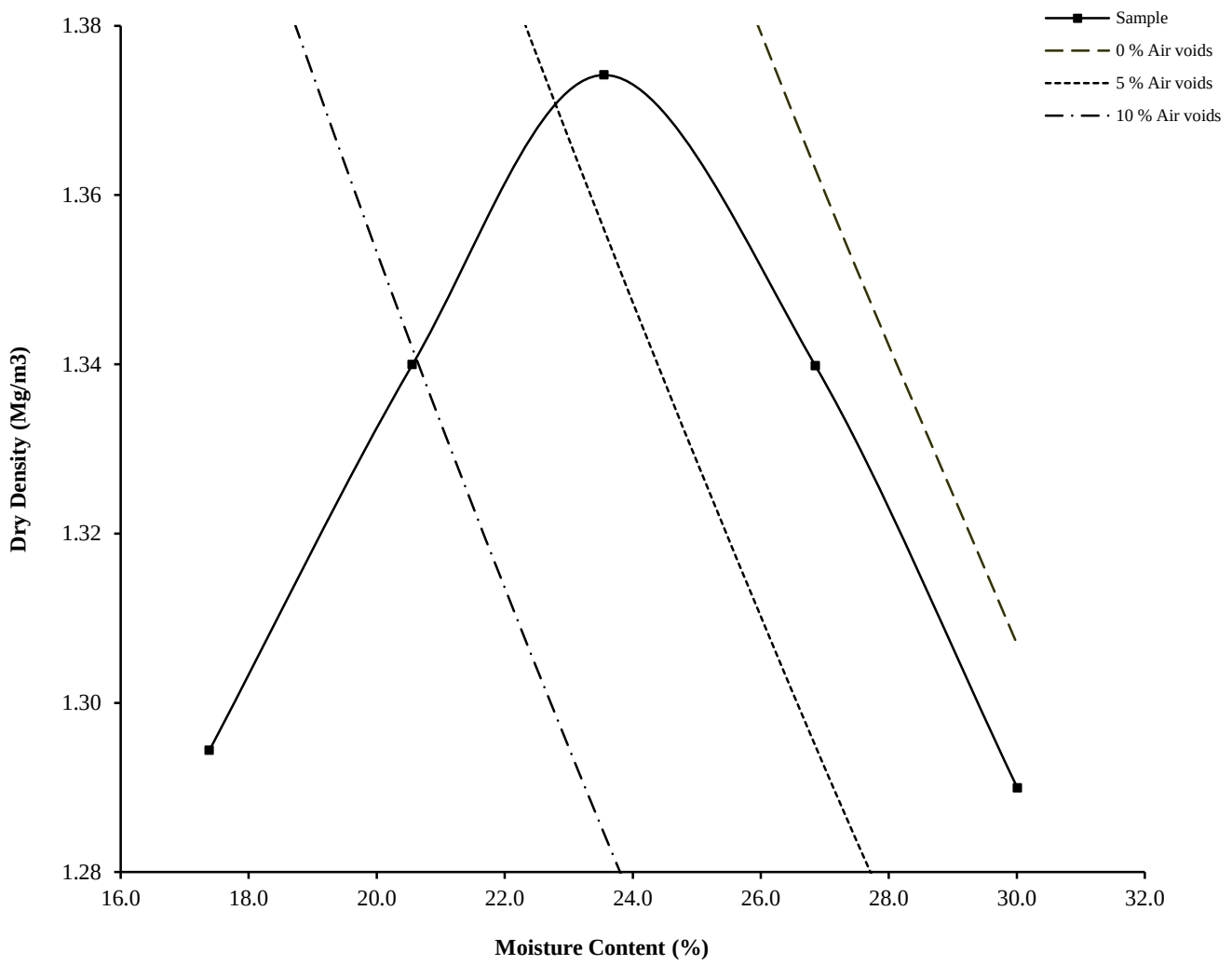


Initial Moisture Content:		20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.40	Assumed	Material Retained on 37.5 mm Test Sieve (%):		3
Maximum Dry Density (Mg/m3):		1.76	Material Retained on 20.0 mm Test Sieve (%):		8
Optimum Moisture Content (%):		14			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP408**	**Top Depth (m) :**	**1.40**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**B**		

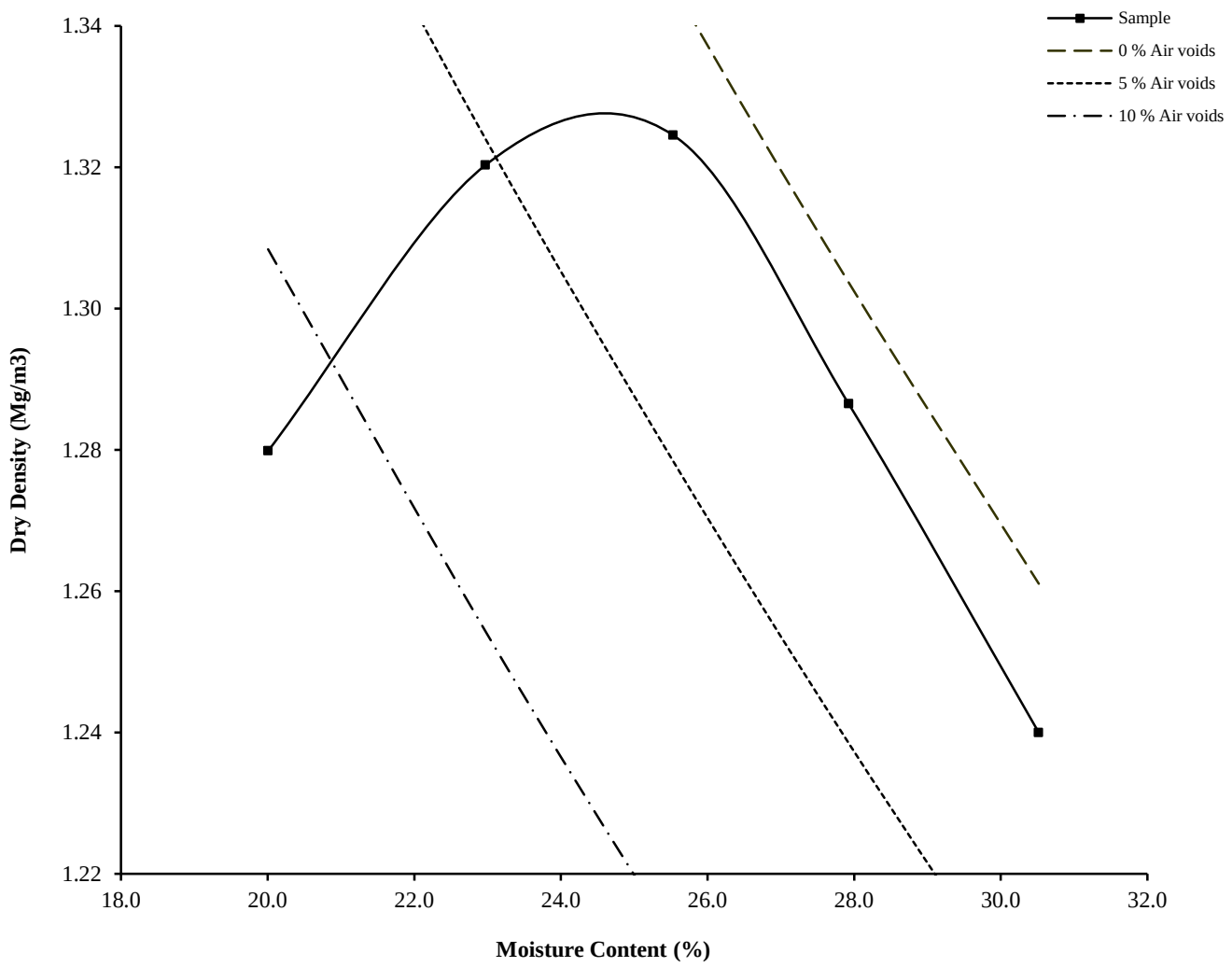


Initial Moisture Content:		27	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):		10
Maximum Dry Density (Mg/m3):		1.37	Material Retained on 20.0 mm Test Sieve (%):		10
Optimum Moisture Content (%):		24			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP413**	**Top Depth (m) :**	**1.20**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**B**		

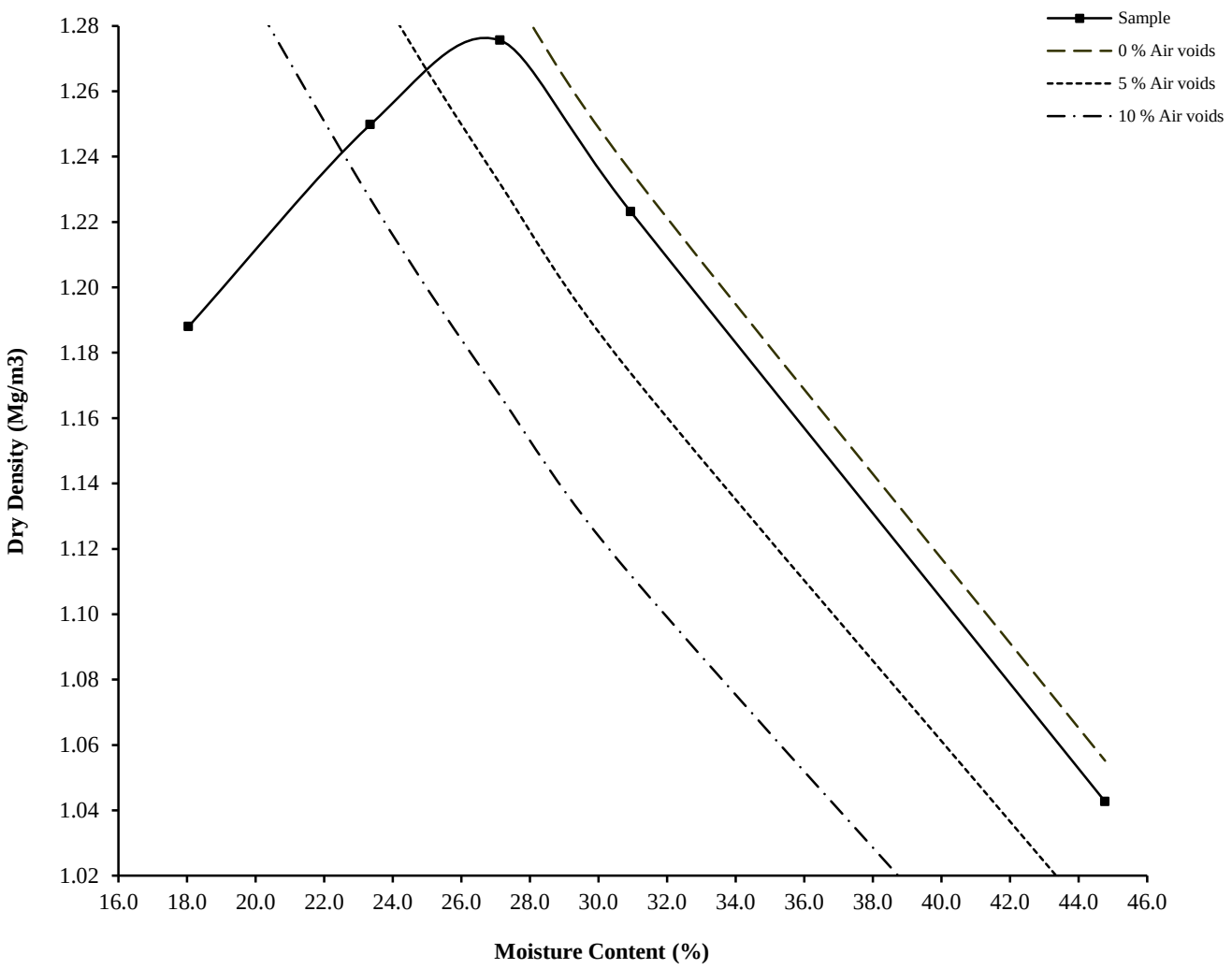


Initial Moisture Content:		28	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.05	Assumed	Material Retained on 37.5 mm Test Sieve (%):		4
Maximum Dry Density (Mg/m3):		1.32	Material Retained on 20.0 mm Test Sieve (%):		6
Optimum Moisture Content (%):		25			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP416**	**Top Depth (m) :**	**2.80**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**B**		

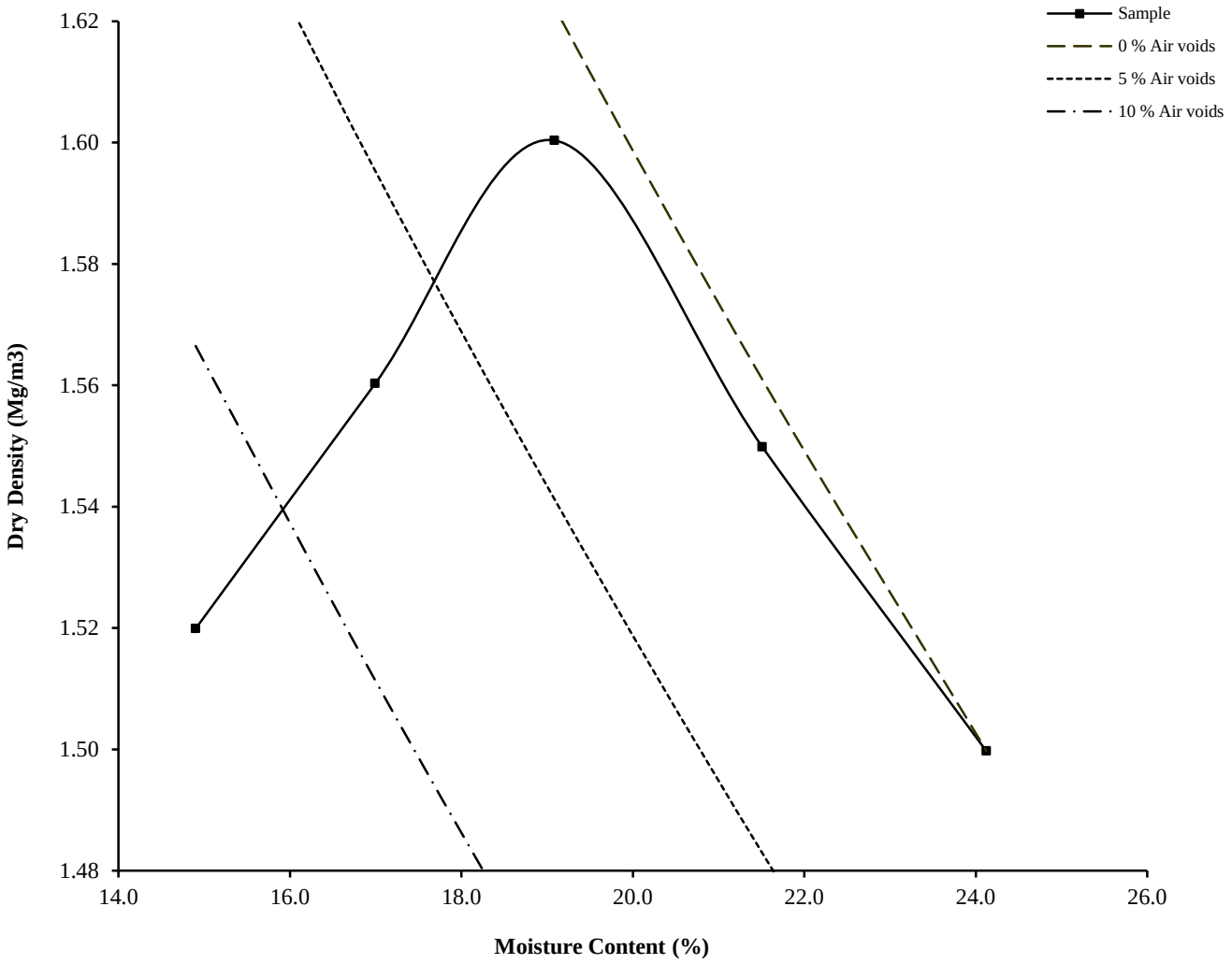


Initial Moisture Content:		45	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.00	Assumed	Material Retained on 37.5 mm Test Sieve (%):		0
Maximum Dry Density (Mg/m3):		1.28	Material Retained on 20.0 mm Test Sieve (%):		7
Optimum Moisture Content (%):		27			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : 1990

Hole Number:	**TP423**	**Top Depth (m) :**	**0.90**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**B**		

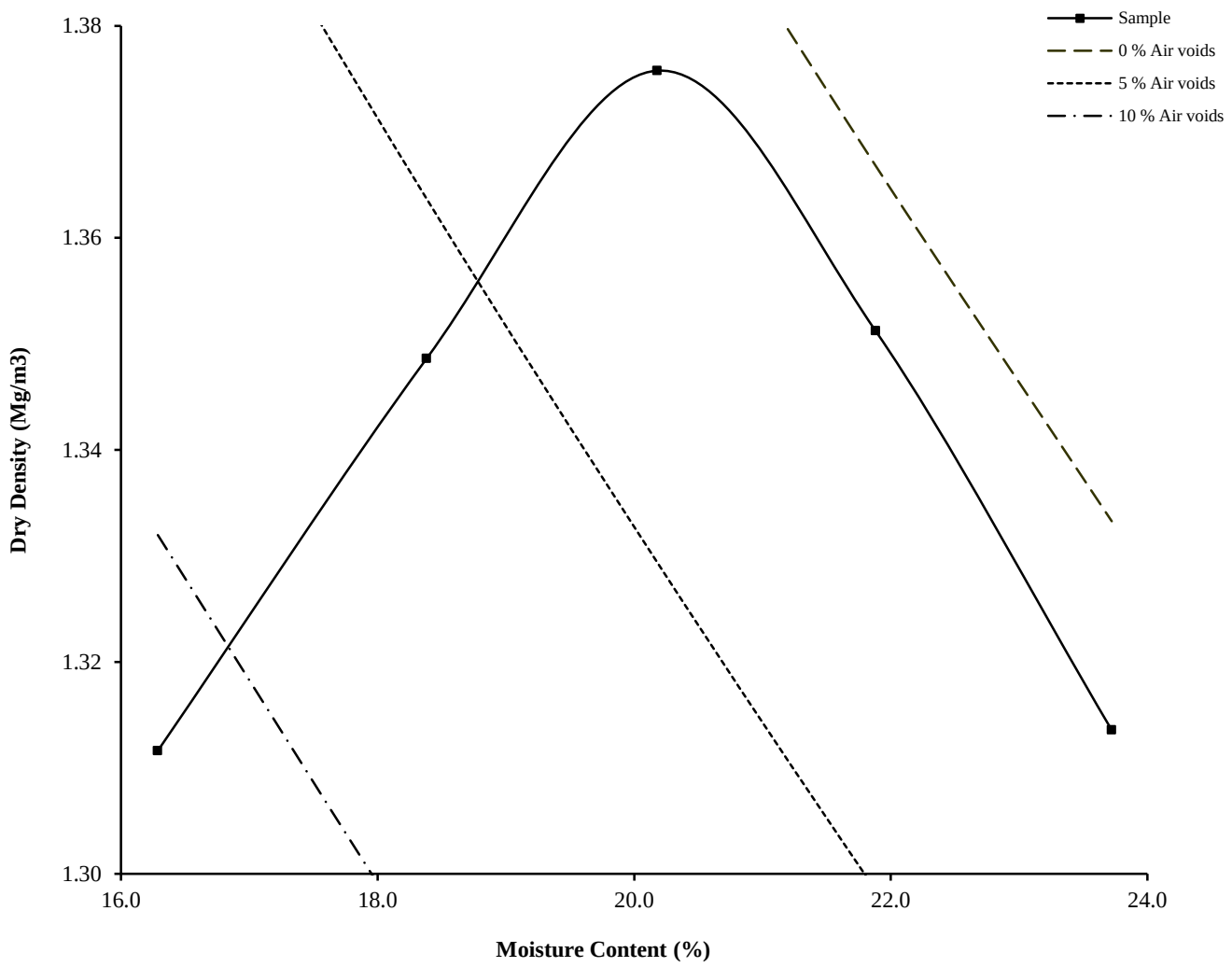


Initial Moisture Content:		22	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.35	Assumed	Material Retained on 37.5 mm Test Sieve (%):		32
Maximum Dry Density (Mg/m3):		1.60	Material Retained on 20.0 mm Test Sieve (%):		8
Optimum Moisture Content (%):		19			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP431**	**Top Depth (m) :**	**1.80**
Sample Number:	**3**	**Base Depth (m) :**	
Sample Type:	**B**		

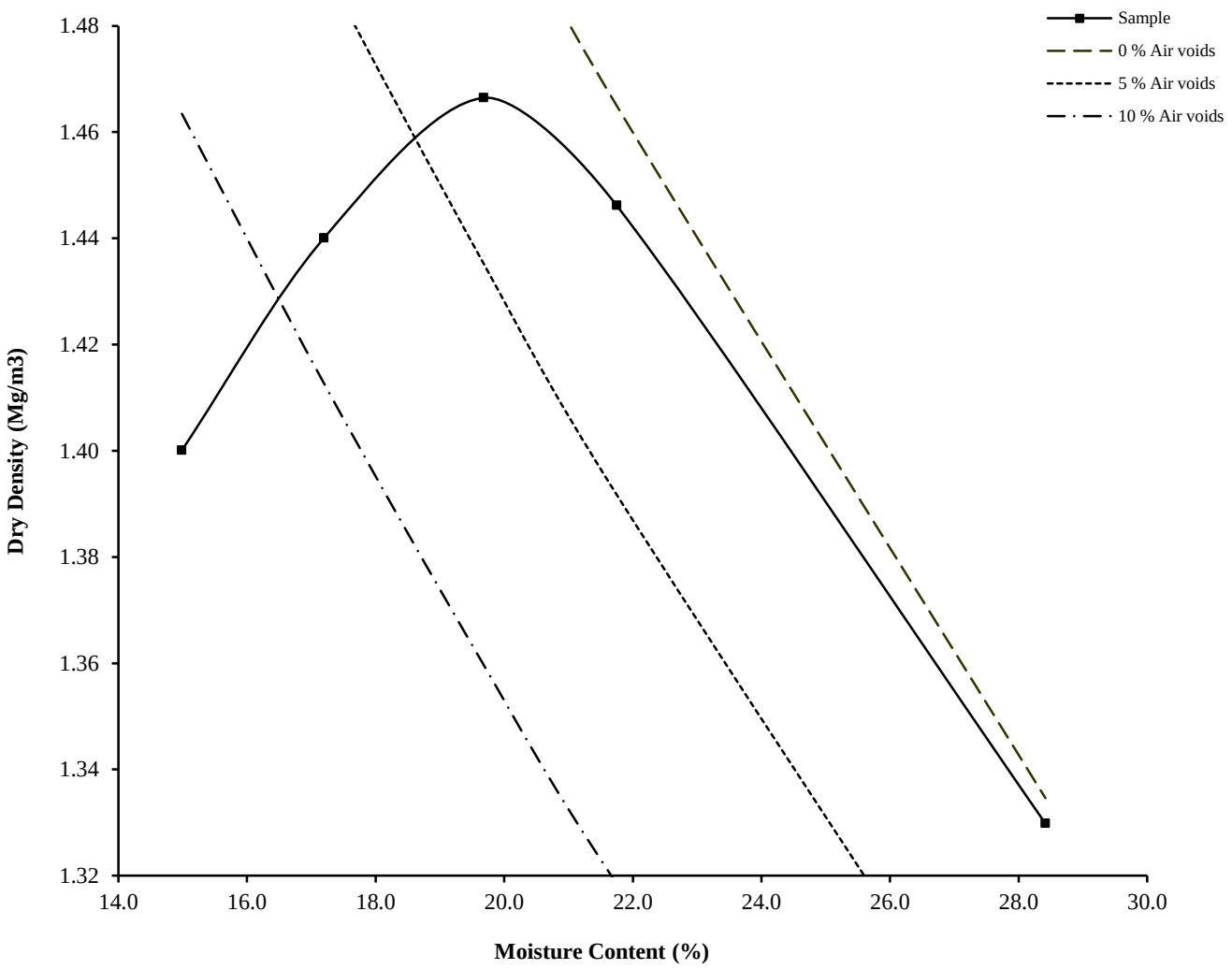


Initial Moisture Content:		20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	1.95	Assumed	Material Retained on 37.5 mm Test Sieve (%):		0
Maximum Dry Density (Mg/m3):		1.38	Material Retained on 20.0 mm Test Sieve (%):		23
Optimum Moisture Content (%):		20			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP437**	**Top Depth (m) :**	**0.80**
Sample Number:	**3**	**Base Depth (m) :**	
Sample Type:	**B**		



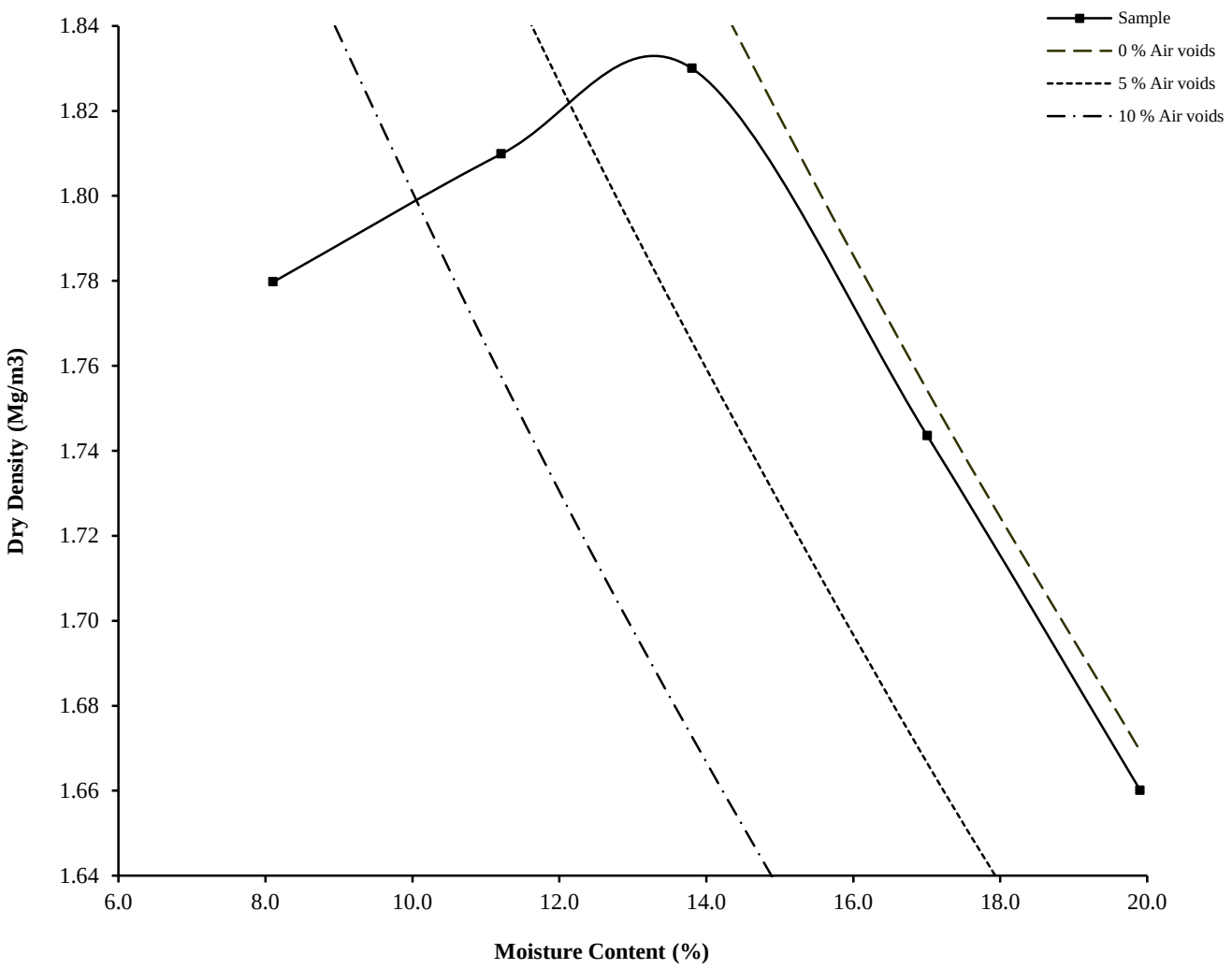
Initial Moisture Content:		28	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):		9
Maximum Dry Density (Mg/m3):		1.47	Material Retained on 20.0 mm Test Sieve (%):		10
Optimum Moisture Content (%):		20			
Remarks See summary of soil descriptions.					

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract** **PSL19/0528** **Client Ref** **3043**

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP444**	**Top Depth (m) :**	**0.70**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**B**		



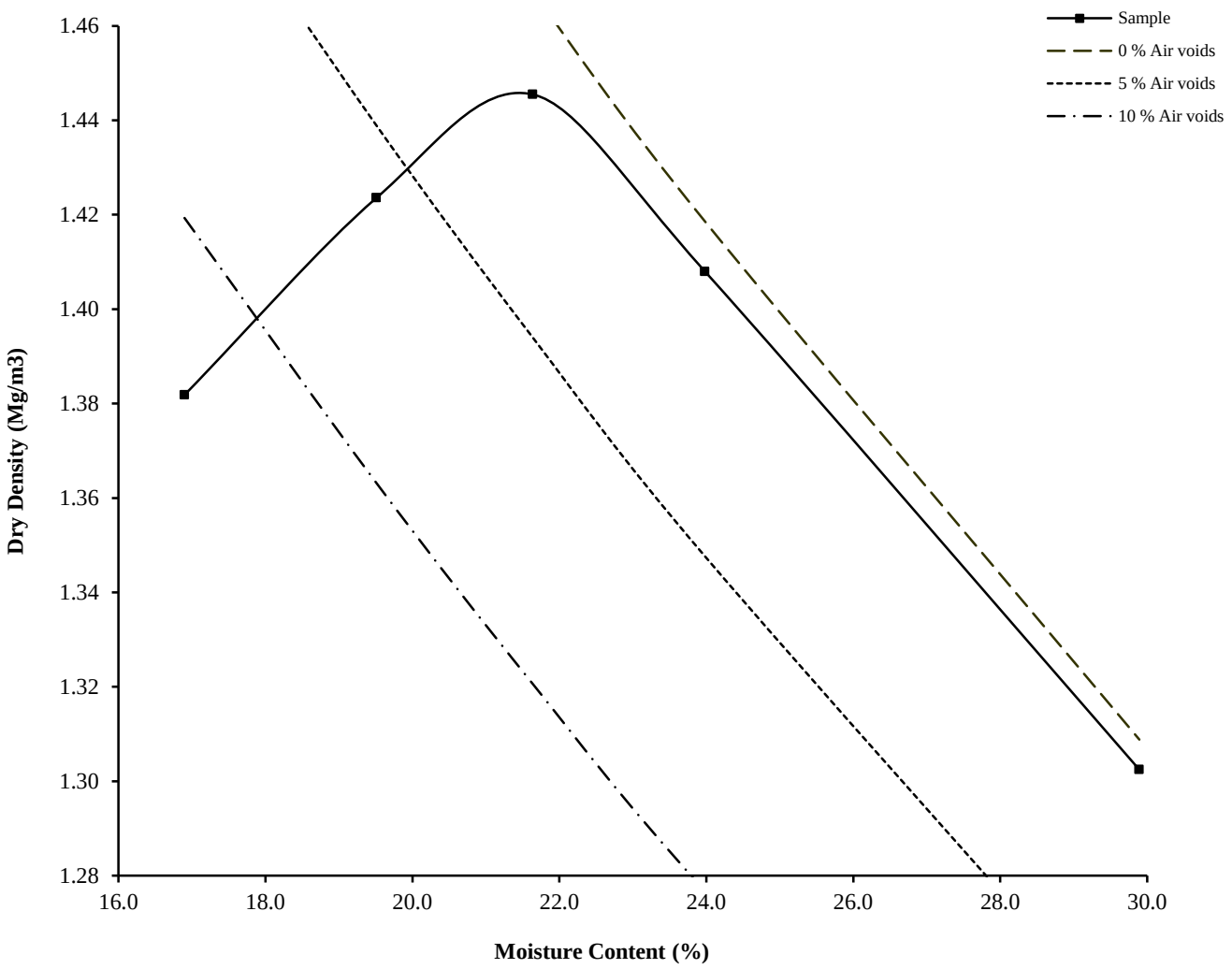
Initial Moisture Content:		20	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.50	Assumed	Material Retained on 37.5 mm Test Sieve (%):		2
Maximum Dry Density (Mg/m3):		1.83	Material Retained on 20.0 mm Test Sieve (%):		10
Optimum Moisture Content (%):		13			
Remarks See summary of soil descriptions.					

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract** **PSL19/0528** **Client Ref** **3043**

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP445**	**Top Depth (m) :**	**2.60**
Sample Number:	**1**	**Base Depth (m) :**	
Sample Type:	**B**		

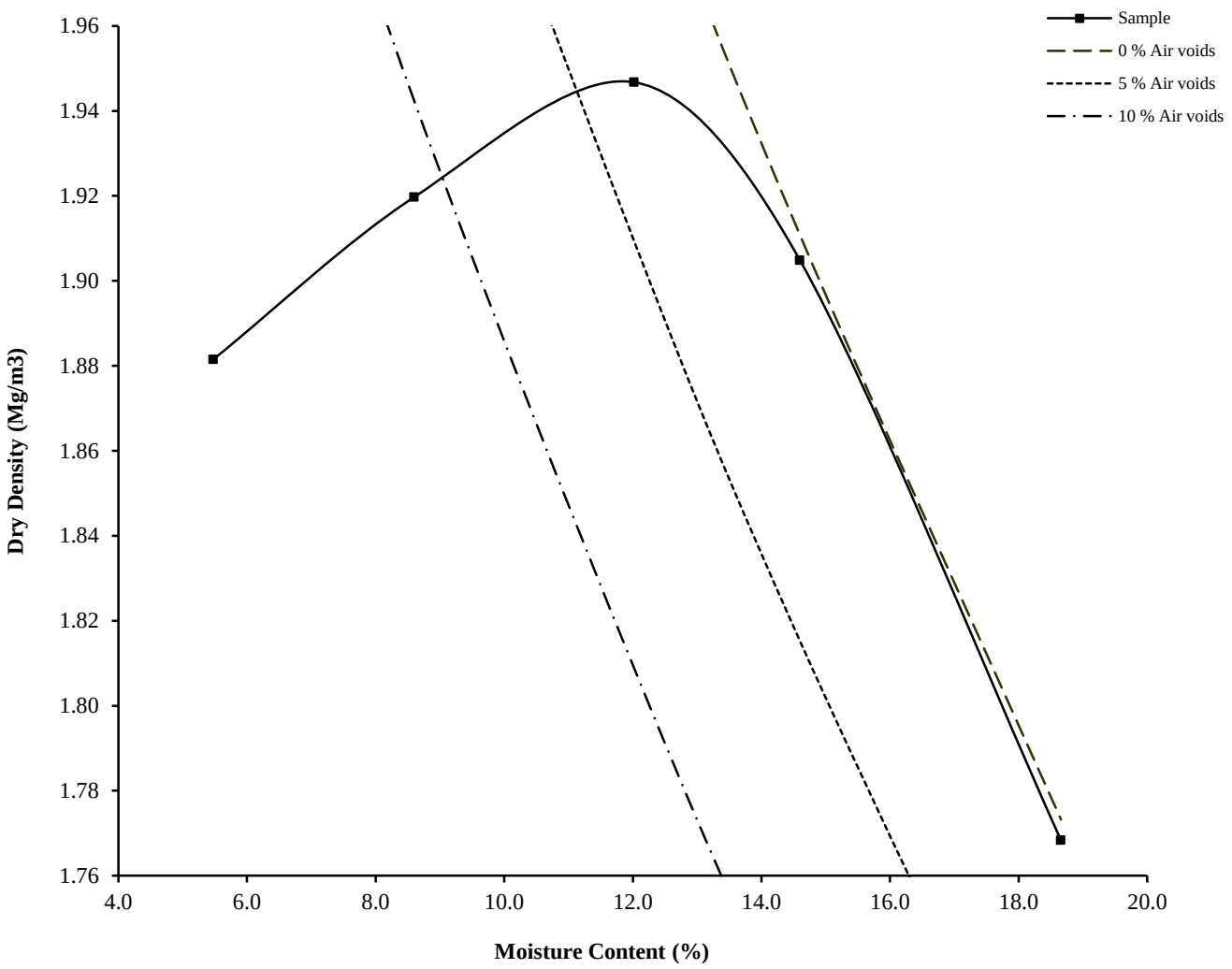


Initial Moisture Content:		30	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):		0
Maximum Dry Density (Mg/m3):		1.45	Material Retained on 20.0 mm Test Sieve (%):		5
Optimum Moisture Content (%):		22			
Remarks See summary of soil descriptions.					

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : 1990

Hole Number:	**TP447**	**Top Depth (m) :**	**1.50**
Sample Number:	**1**	**Base Depth (m) :**	
Sample Type:	**B**		



Initial Moisture Content:		19	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):		7
Maximum Dry Density (Mg/m3):		1.95	Material Retained on 20.0 mm Test Sieve (%):		6
Optimum Moisture Content (%):		12			
Remarks See summary of soil descriptions.					

Certificate of Analysis

Certificate Number 19-01449-1

21-Feb-19

Client Professional Soils Laboratory Ltd
5/7 Hexthorpe Road
Hexthorpe
DN4 0AR

Our Reference 19-01449-1

Client Reference PSL19/0528

Order No (not supplied)

Contract Title Westgate, Cleckheaton

Description 18 Soil samples.

Date Received 25-Jan-19

Date Started 25-Jan-19

Date Completed 21-Feb-19

Test Procedures Identified by prefix DETSn (details on request).

Notes This test supersedes 19-01449, extra testing.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Soil Samples

Our Ref 19-01449-1
Client Ref PSL19/0528
Contract Title Westgate, Cleckheaton

			Lab No	1450416	1450417	1450418	1450419	1450420	1450421	1450422	1450423	1450424	1450425	1450426
			Sample ID	TT428S	TP423	TP421	TP427	TP419	TP404	TP435	TP424	TP403	TP447	TP434
			Depth	0.80	1.30	2.00	2.50	2.60	0.90	0.90	1.30	1.40	1.50	1.60
			Other ID	3	3	2	4	3	2	2	2	2	1	2
			Sample Type	D	D	D	D	D	D	D	D	D	D	D
			Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
			Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**											
Metals														
Magnesium Aqueous Extract	DETSC 2076*	10	mg/l									12		
Inorganics														
pH	DETSC 2008#			7.3	7.2	7.0	7.5	6.5	7.2	7.3	6.3	5.3	7.5	6.8
Chloride Aqueous Extract	DETSC 2055	1	mg/l									6.3		
Nitrate Aqueous Extract as NO3	DETSC 2055	1	mg/l									< 1.0		
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	90	55	62	20	26	26	50	34	110	23	120

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

Summary of Chemical Analysis
Soil Samples

Our Ref 19-01449-1
Client Ref PSL19/0528
Contract Title Westgate, Cleckheaton

				Lab No	1450427	1450428	1450429	1450430	1450431	1450432	1450433
				Sample ID	TP405	TP446	TP433	TP442	TP444	TT431	TP439
				Depth	1.80	1.80	1.90	2.00	2.50	3.50	4.20
				Other ID	2	3	2	4	5	4	5
				Sample Type	D	D	D	D	D	D	D
				Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s
				Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**								
Metals											
Magnesium Aqueous Extract	DETSC 2076*	10	mg/l			13			< 10	< 10
Inorganics											
pH	DETSC 2008#			7.2	6.1	5.0	7.8	6.8	4.6	4.4
Chloride Aqueous Extract	DETSC 2055	1	mg/l			120			13	7.1
Nitrate Aqueous Extract as NO3	DETSC 2055	1	mg/l			23			1.5	< 1.0
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	15	790	200	720	17	530	380

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

Information in Support of the Analytical Results

Our Ref 19-01449-1
Client Ref PSL19/0528
Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1450416	TT428S 0.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450417	TP423 1.30 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450418	TP421 2.00 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450419	TP427 2.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450420	TP419 2.60 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450421	TP404 0.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450422	TP435 0.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450423	TP424 1.30 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450424	TP403 1.40 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450425	TP447 1.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450426	TP434 1.60 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450427	TP405 1.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450428	TP446 1.80 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450429	TP433 1.90 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450430	TP442 2.00 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450431	TP444 2.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450432	TT431 3.50 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	
1450433	TP439 4.20 SOIL		PT 500ml	Sample date not supplied, Anions 2:1 (365 days), pH + Conductivity (7 days)	

Key: P-Plastic T-Tub

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

Information in Support of the Analytical Results

Our Ref 19-01449-1
Client Ref PSL19/0528
Contract Westgate, Cleckheaton

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

LABORATORY REPORT

4043

Contract Number: PSL20/5177

Report Date: 26 October 2020

Client's Reference: 3043

Client Name: Lithos Consulting
Parkhill
Walton Road
Wetherby
North Yorkshire
LS22 5DZ

For the attention of: Alex Potts/George Morton

Contract Title: Westgate, Cleckheaton

Date Received: 28/9/2020
Date Commenced: 28/9/2020
Date Completed: 26/10/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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

Checked and Approved Signatories:

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

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awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH508	2	D	2.00		Brown slightly gravelly sandy CLAY.
BH508	3	U	2.50		Stiff brown gravelly slightly sandy CLAY.
BH509	1	D	1.00		Brown slightly gravelly very sandy CLAY.
BH509	2	U	2.00		Firm brown gravelly sandy CLAY.
BH509	3	D	2.50		Brown mottled grey slightly gravelly sandy CLAY.
BH509	4	U	2.70		Firm gravelly slightly sandy CLAY.
TP506	5	D	2.30		Brown slightly gravelly sandy CLAY.
TP513	7	D	4.80		Brown mottled grey slightly gravelly sandy CLAY.
BH501	5	D&B	4.00		Grey very clayey SAND & GRAVEL.
TP504	3	D&B	1.00		MADE GROUND dark brown very sandy clayey gravel with cobbles.
TP508	3	D&B	0.40		MADE GROUND dark brown very sandy very clayey gravel with some cobbles.
TP511	2	D&B	0.80		MADE GROUND brown very sandy very clayey gravel.
TP514	4	D&B	1.00		MADE GROUND dark brown very sandy very clayey gravel with some cobbles and organic material.
TP517	3	D	0.90		Brown slightly gravelly sandy CLAY.
TP518	6	D	2.80		Brown gravelly sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
BH508	2	D	2.00		18			47	24	23	95	Intermediate plasticity CI.
BH509	1	D	1.00		26			33	17	16	97	Low plasticity CL.
BH509	3	D	2.50		22			34	18	16	97	Low plasticity CL.
TP506	5	D	2.30		13			37	19	18	90	Intermediate plasticity CI.
TP513	7	D	4.80		32			46	22	24	97	Intermediate plasticity CI.
BH501	5	D&B	4.00		33		2.35					
TP504	3	D&B	1.00		31		2.40					
TP508	3	D&B	0.40		21		2.41					
TP511	2	D&B	0.80		18		2.32					
TP514	4	D&B	1.00		61		2.40					
TP517	3	D	0.90		18			47	23	24	94	Intermediate plasticity CI.
TP518	6	D	2.80		14			34	17	17	83	Low plasticity CL.

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

UKAS TESTING 4043

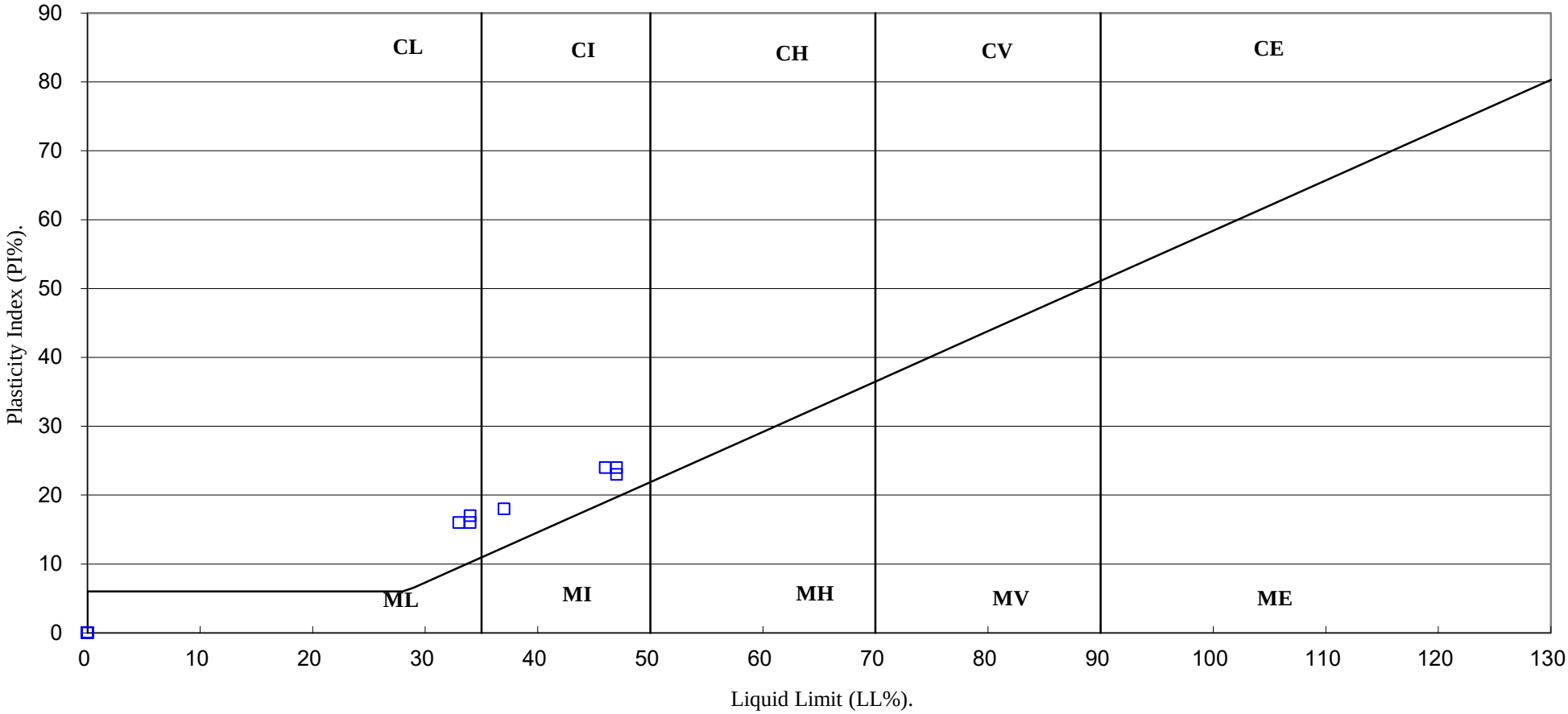
PSL Professional Soils Laboratory

Westgate, Cleckheaton

Contract No: PSL20/5177

Client Ref: 3043

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No:**
			PSL20/5177
			Client Ref:
			3043

ONE DIMENSIONAL CONSOLIDATION TEST

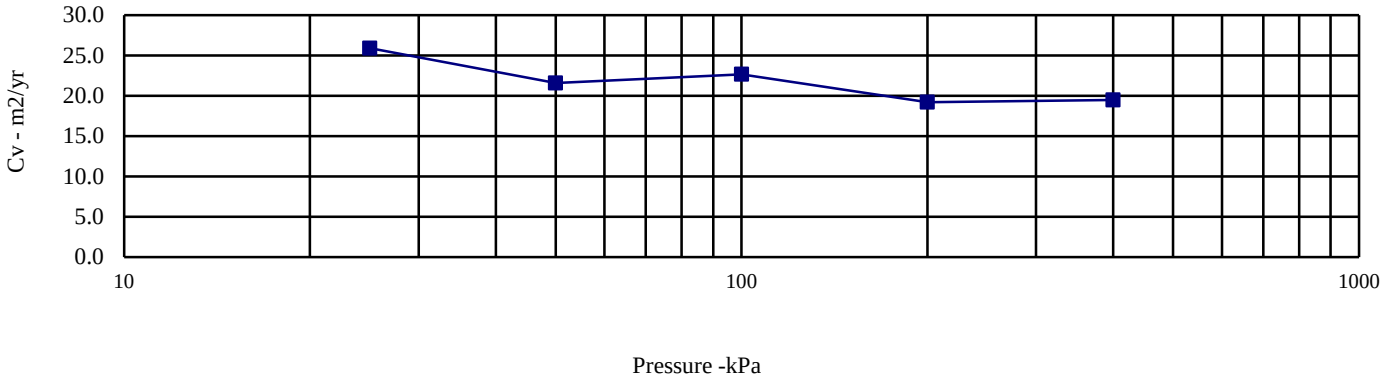
BS 1377: Part 5: 1990: Clause 3

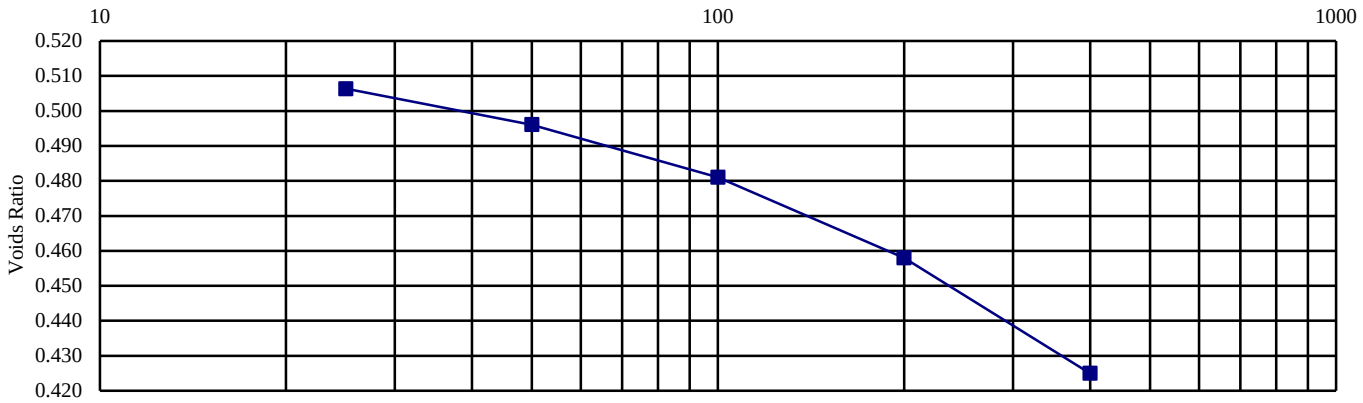
Hole Number: **BH508** **Top Depth (m):** **2.50**

Sample Number: **3** **Base Depth (m) :**

Sample Type: **U**

Initial Conditions		Pressure Range kPa		Mv m2/MN	Cv m2/yr	Specimen location within tube:	Top
Moisture Content (%):	17						
Bulk Density (Mg/m3):	2.05	0	25	0.313	25.901	Method used to	
Dry Density (Mg/m3):	1.75	25	50	0.273	21.563	determine CV:	T90
Voids Ratio:	0.518	50	100	0.200	22.669	Nominal temperature	
Degree of saturation:	88.0	100	200	0.156	19.193	during test ' C:	20
Height (mm):	20.054	200	400	0.113	19.477	Remarks:	
Diameter (mm)	75.015					See summary of soil descriptions	
Particle Density (Mg/m3): Assumed	2.65						





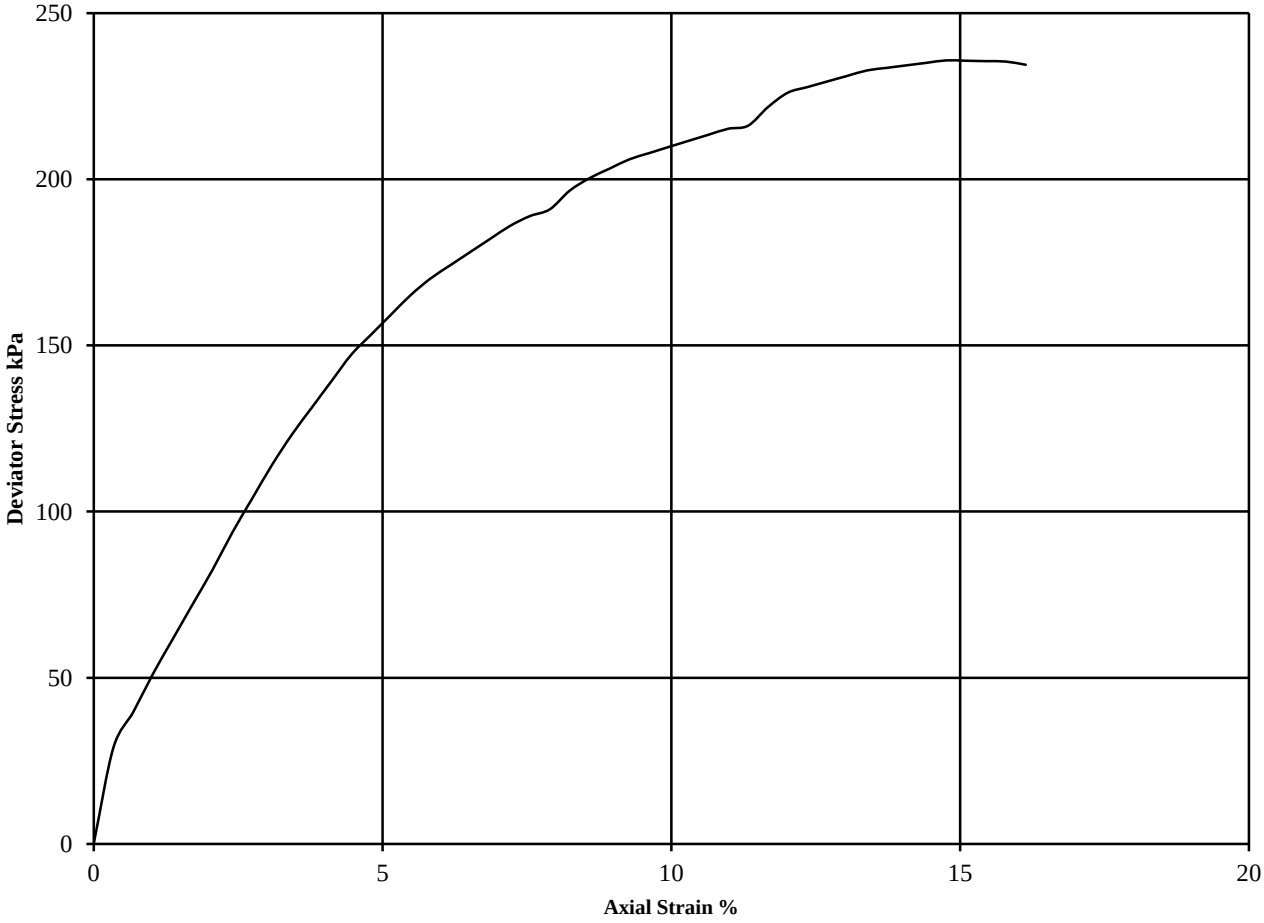
UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No:** PSL20/5177 **Client Ref:** 3043

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

Hole Number:	**BH508**	**Top Depth (m):**	**2.50**
Sample Number:	**3**	**Base Depth (m):**	
Sample Type	**U**		



Diameter (mm):		103	Height (mm):		150	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa)
1	24	1.98	1.60	10	191	95	7.9		0.35 0.35 0.34
				25	216	108	11.3		See summary of soil descriptions
				40	236	118	14.8	Intermediate	

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No:** PSL20/5177 **Client Ref:** 3043

ONE DIMENSIONAL CONSOLIDATION TEST

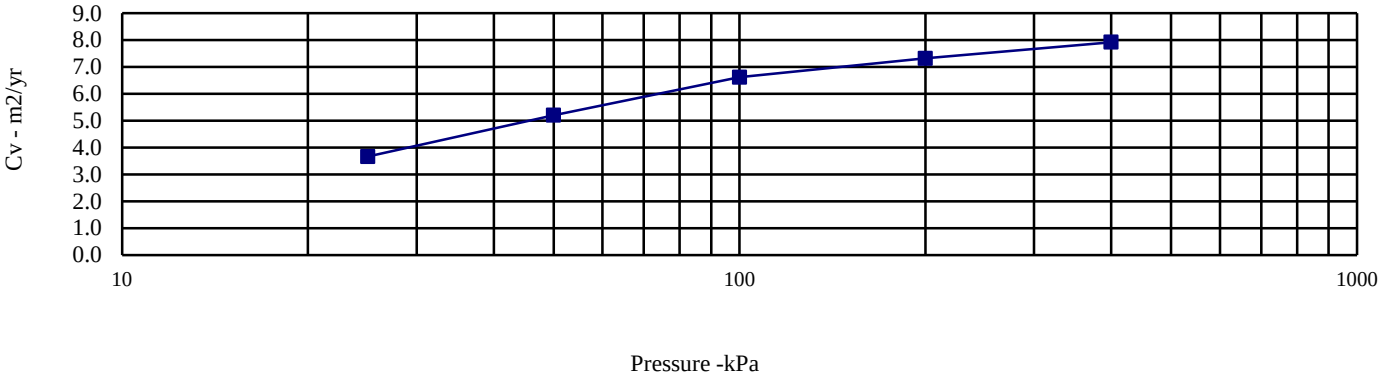
BS 1377: Part 5: 1990: Clause 3

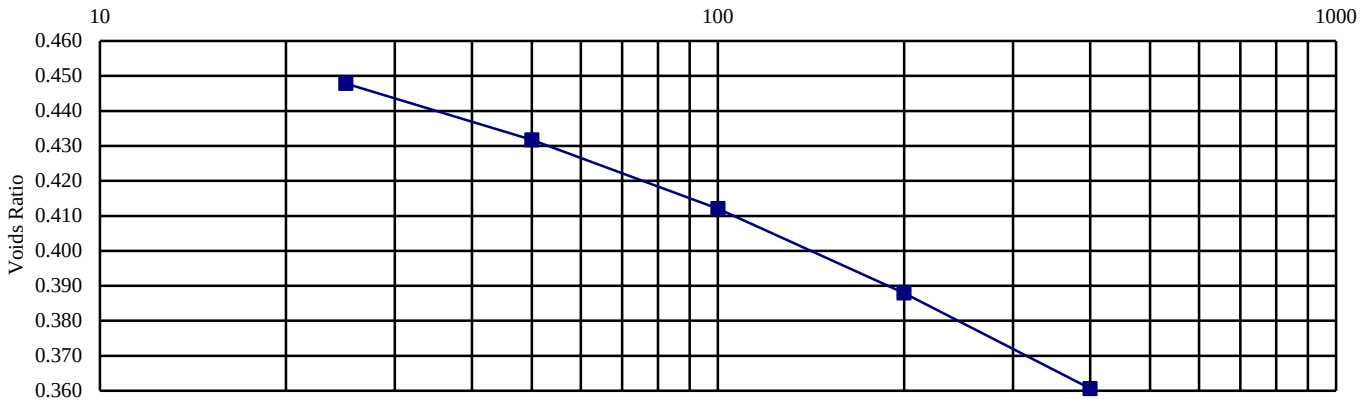
Hole Number: **BH509** **Top Depth (m):** **2.00**

Sample Number: **2** **Base Depth (m) :**

Sample Type: **U**

Initial Conditions		Pressure Range kPa		Mv m2/MN	Cv m2/yr	Specimen location within tube:	Top
Moisture Content (%):	19						
Bulk Density (Mg/m3):	2.13	0	25	0.822	3.659	Method used to	
Dry Density (Mg/m3):	1.79	25	50	0.445	5.195	determine CV:	T90
Voids Ratio:	0.478	50	100	0.274	6.615	Nominal temperature	
Degree of saturation:	105.0	100	200	0.171	7.315	during test ' C:	20
Height (mm):	20.01	200	400	0.098	7.919	Remarks:	
Diameter (mm)	75.003					See summary of soil descriptions	
Particle Density (Mg/m3): Assumed	2.65						





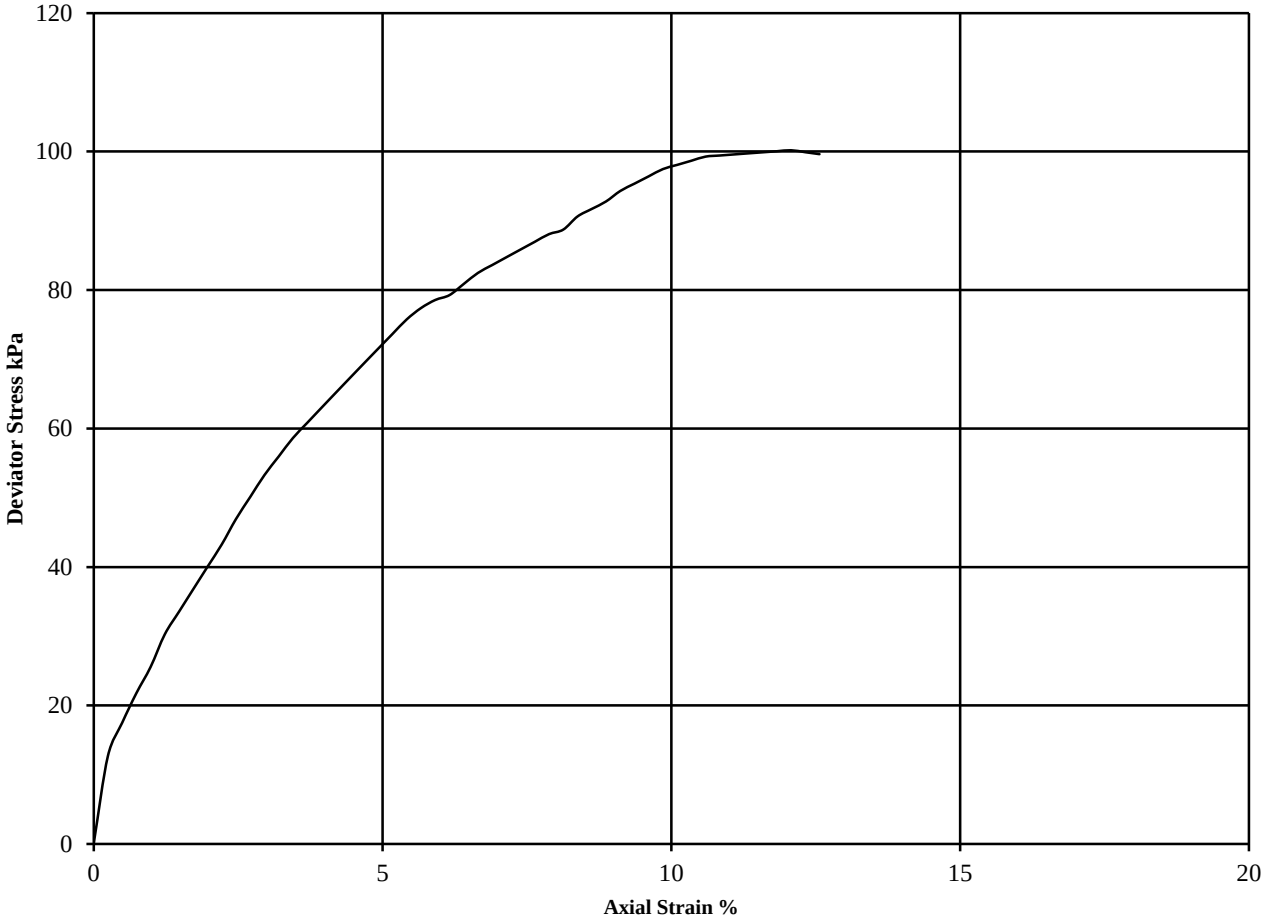
UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No: PSL20/5177** **Client Ref: 3043**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

Hole Number:	**BH509**	**Top Depth (m):**	**2.00**
Sample Number:	**2**	**Base Depth (m):**	
Sample Type	**U**		



Diameter (mm):		102	Height (mm):		207	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa)
1	21	2.26	1.86	10	79	40	6.2		0.36 0.36 0.35
				20	89	44	8.1		See summary of soil descriptions
				30	100	50	12.1	Intermediate	

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No:** PSL20/5177 **Client Ref:** 3043

ONE DIMENSIONAL CONSOLIDATION TEST

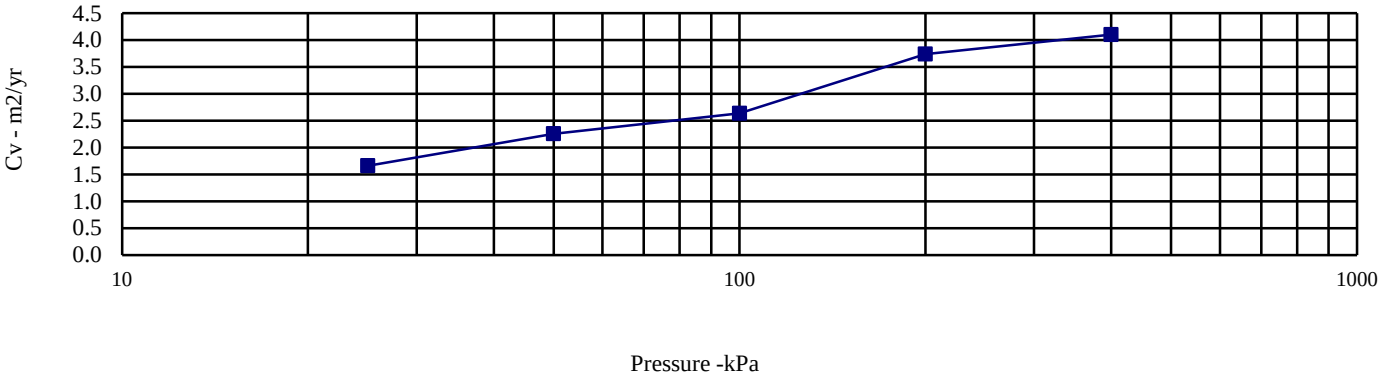
BS 1377: Part 5: 1990: Clause 3

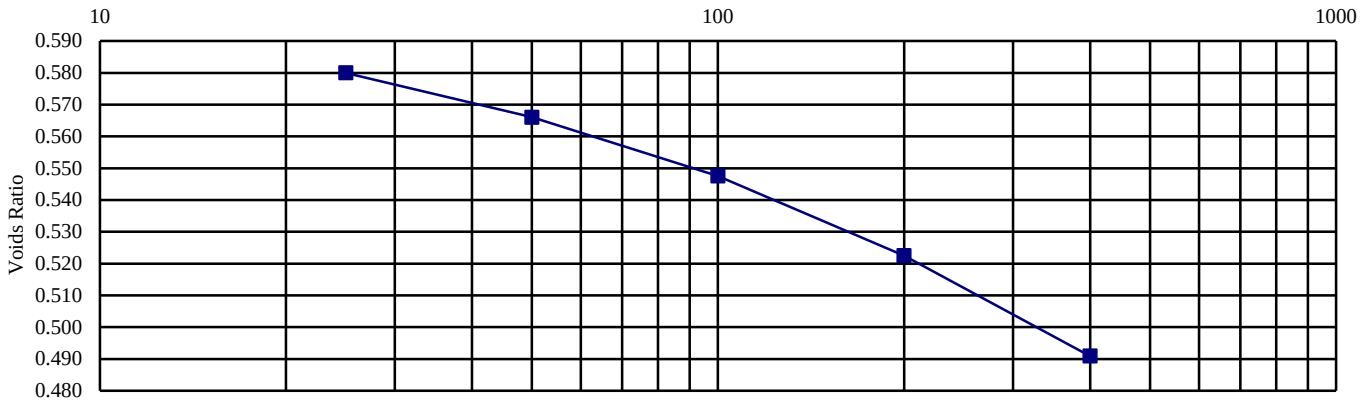
Hole Number: **BH509** **Top Depth (m):** **2.70**

Sample Number: **4** **Base Depth (m) :**

Sample Type: **U**

Initial Conditions		Pressure Range kPa		Mv m2/MN	Cv m2/yr	Specimen location within tube:	Top
Moisture Content (%):	23						
Bulk Density (Mg/m3):	2.03	0	25	0.637	1.661	Method used to	
Dry Density (Mg/m3):	1.65	25	50	0.353	2.257	determine CV:	T90
Voids Ratio:	0.606	50	100	0.236	2.634	Nominal temperature	
Degree of saturation:	100.9	100	200	0.162	3.739	during test ' C:	20
Height (mm):	20.036	200	400	0.104	4.099	Remarks:	
Diameter (mm)	75					See summary of soil descriptions	
Particle Density (Mg/m3): Assumed	2.65						





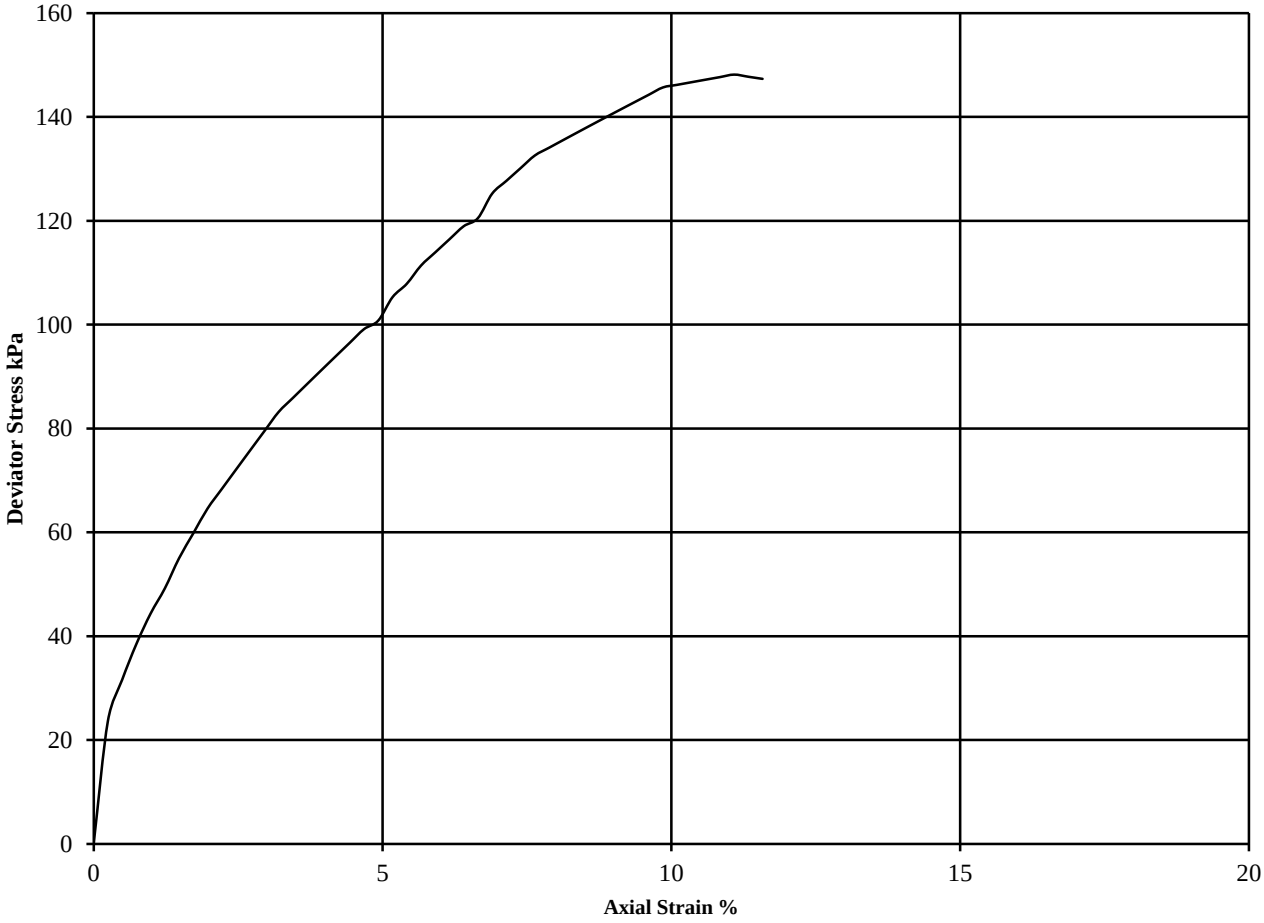
UKAS TESTING 4043	PSL Professional Soils Laboratory	**Westgate, Cleckheaton**	**Contract No: PSL20/5177** **Client Ref: 3043**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 9

Hole Number:	**BH509**	**Top Depth (m):**	**2.70**
Sample Number:	**4**	**Base Depth (m):**	
Sample Type	**U**		



Diameter (mm):		102	Height (mm):		207	Test:	UU Multistage		Remarks
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick Membrane Correction applied (kPa)
1	23	0.41	0.33	15	101	50	4.9		0.36 0.36 0.35
				30	121	60	6.7		See summary of soil descriptions
				45	148	74	11.1	Intermediate	

PARTICLE SIZE DISTRIBUTION TEST

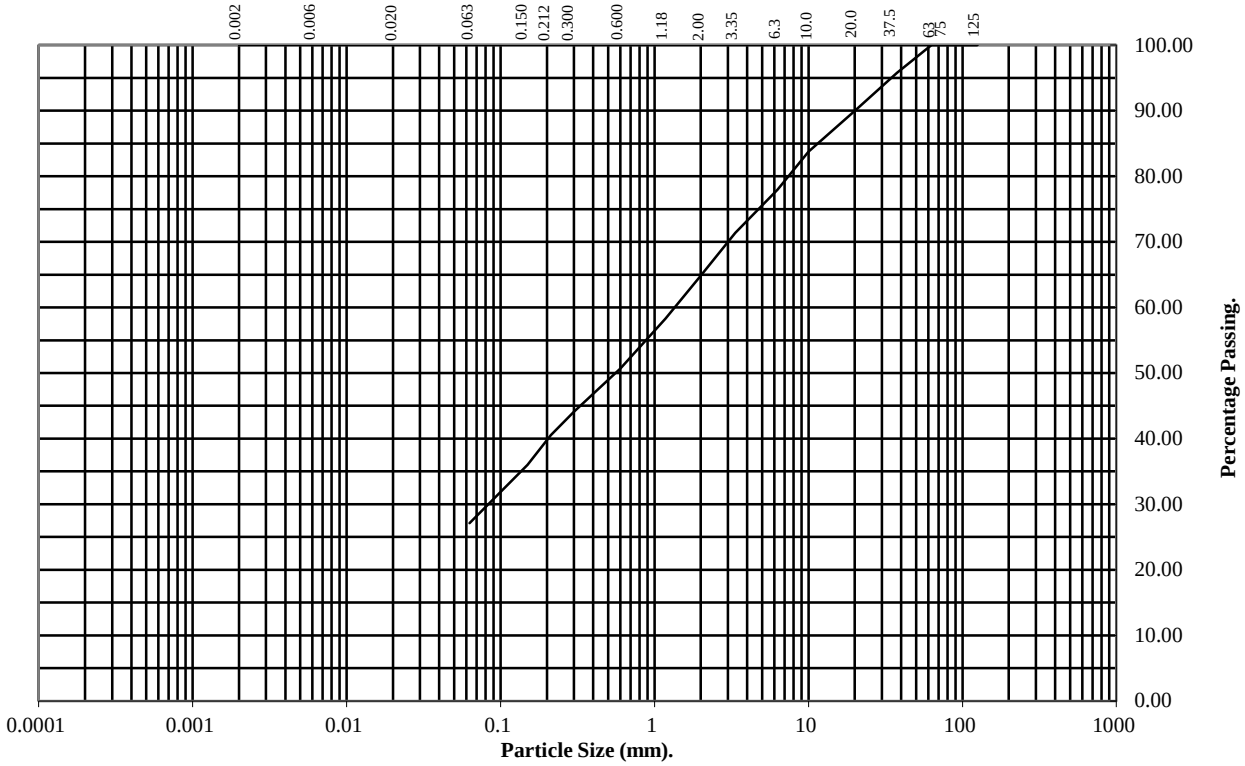
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH501** **Top Depth (m):** **4.00**

Sample Number: **5** **Base Depth(m):**

Sample Type: **D&B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	96
20	90
10	84
6.3	78
3.35	71
2	65
1.18	58
0.6	51
0.3	44
0.212	41
0.15	36
0.063	27

Soil Fraction	Total Percentage
Cobbles	0
Gravel	35
Sand	38
Silt/Clay	27

Remarks:

See Summary of Soil Descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Westgate, Cleckheaton

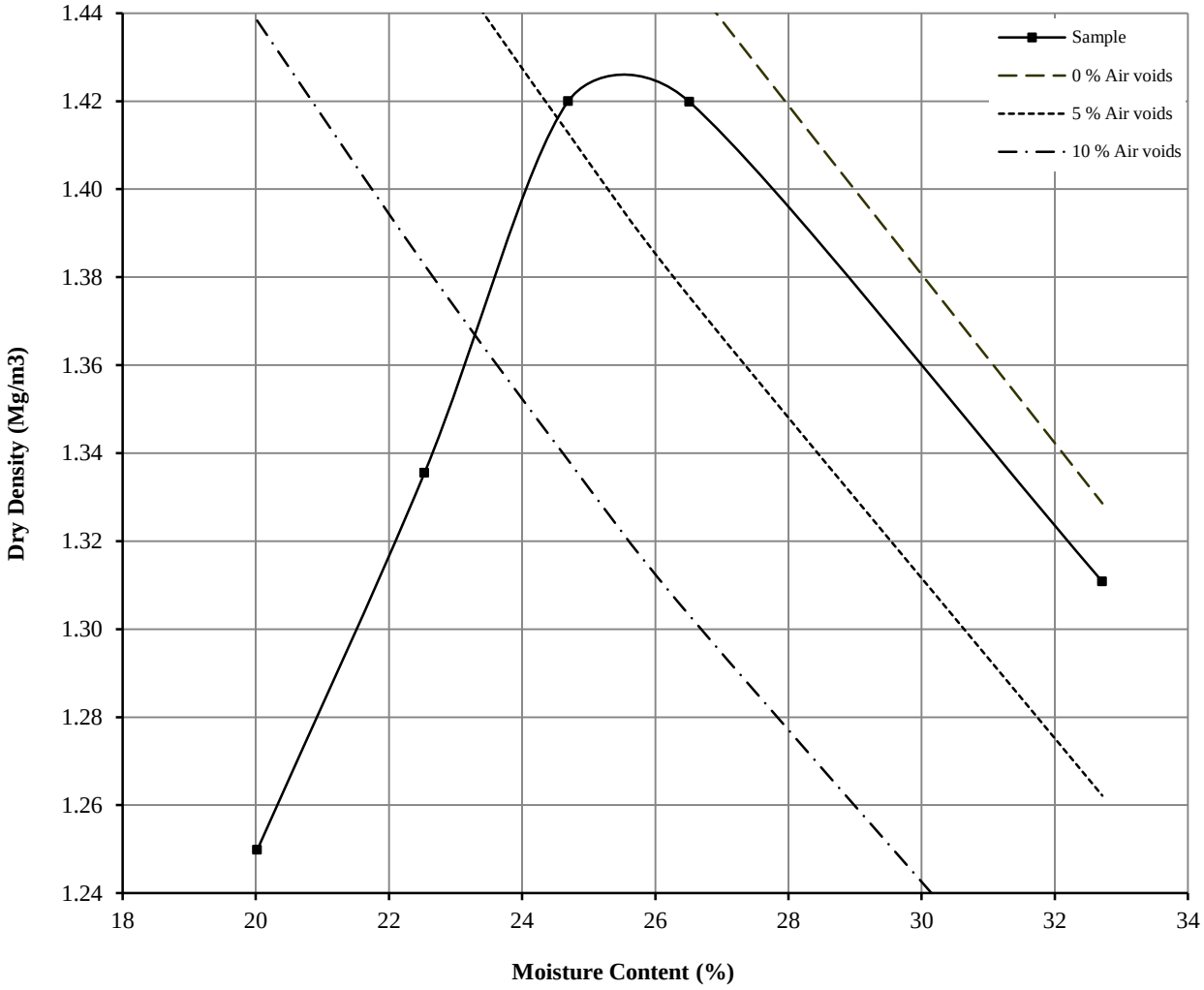
Contract No: **PSL20/5177**

Client Ref: **3043**

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

Hole Number:	**BH501**	**Top Depth (m) :**	**4.00**
Sample Number:	**5**	**Base Depth (m) :**	
Sample Type:	**D&B**		



Initial Moisture Content:		33	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.35	Measured	Material Retained on 37.5 mm Test Sieve (%):		4
Maximum Dry Density (Mg/m3):		1.42	Material Retained on 20.0 mm Test Sieve (%):		6
Optimum Moisture Content (%):		25			
Remarks See summary of soil descriptions.					

PARTICLE SIZE DISTRIBUTION TEST

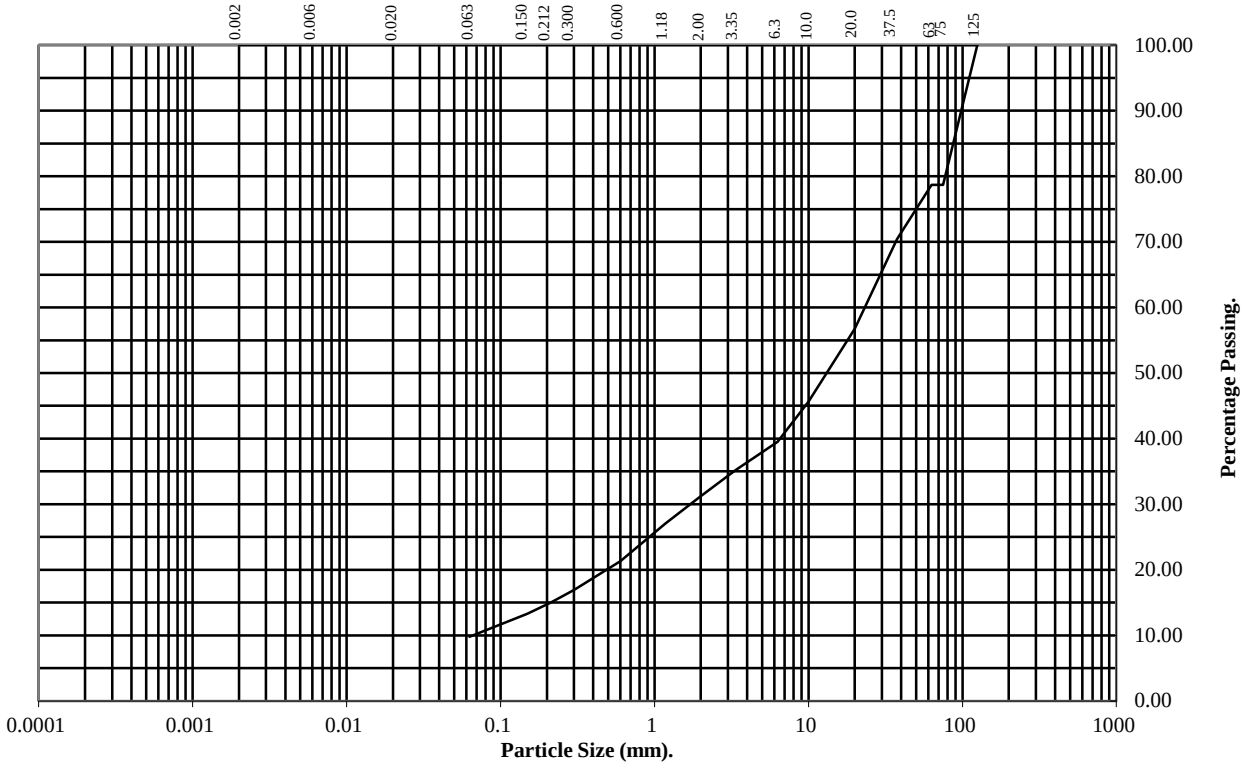
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP504** **Top Depth (m):** **1.00**

Sample Number: **3** **Base Depth(m):**

Sample Type: **D&B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	79
63	79
37.5	70
20	57
10	46
6.3	39
3.35	35
2	31
1.18	27
0.6	21
0.3	17
0.212	15
0.15	13
0.063	10

Soil Fraction	Total Percentage
Cobbles	21
Gravel	48
Sand	21
Silt/Clay	10

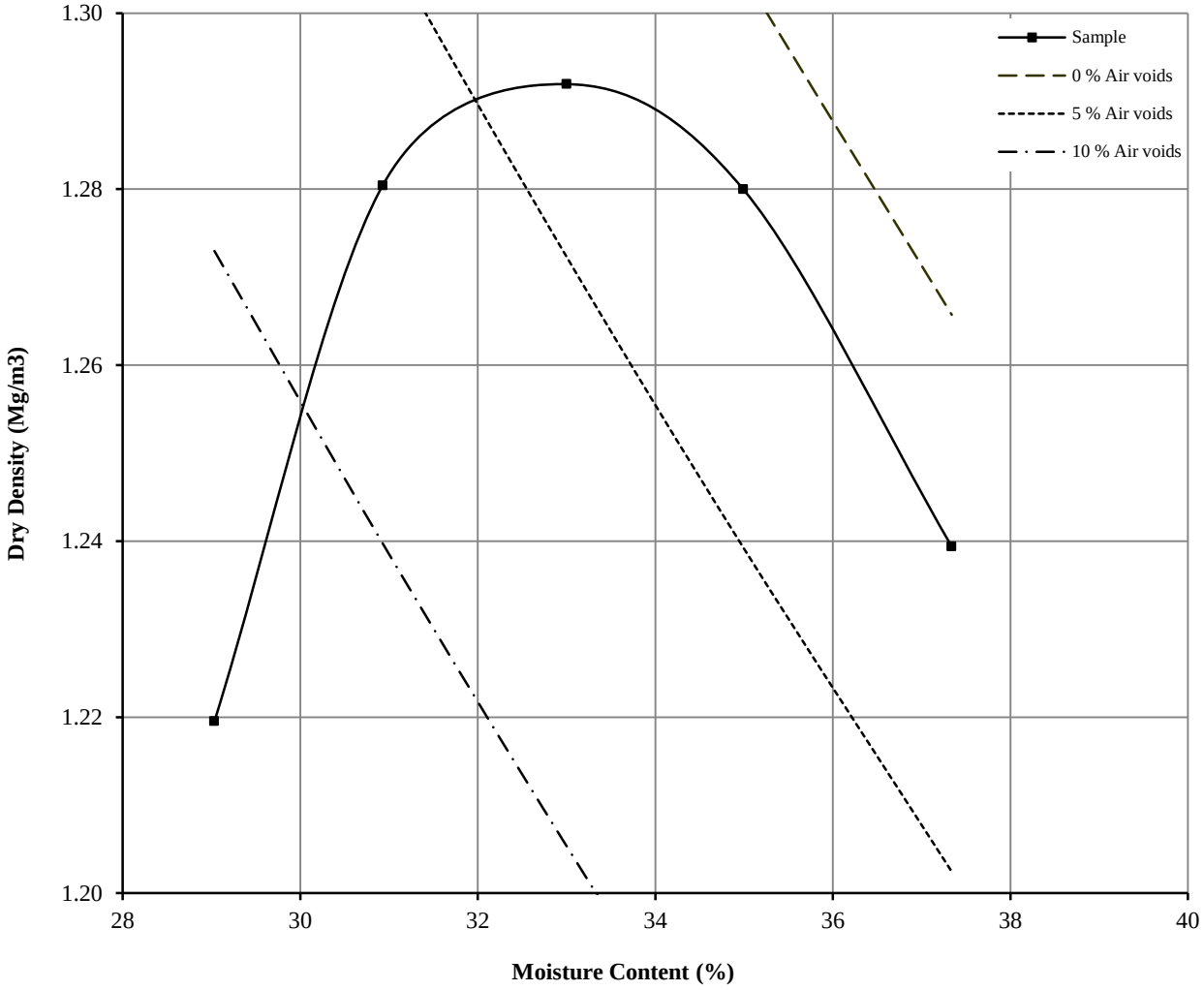
Remarks:

See Summary of Soil Descriptions

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : Clause 3.4 : 1990

Hole Number:	**TP504**	**Top Depth (m) :**	**1.00**
Sample Number:	**3**	**Base Depth (m) :**	
Sample Type:	**D&B**		



Initial Moisture Content:		31	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.40	Measured	Material Retained on 37.5 mm Test Sieve (%):		30
Maximum Dry Density (Mg/m3):		1.29	Material Retained on 20.0 mm Test Sieve (%):		13
Optimum Moisture Content (%):		33			
Remarks See summary of soil descriptions.					

PARTICLE SIZE DISTRIBUTION TEST

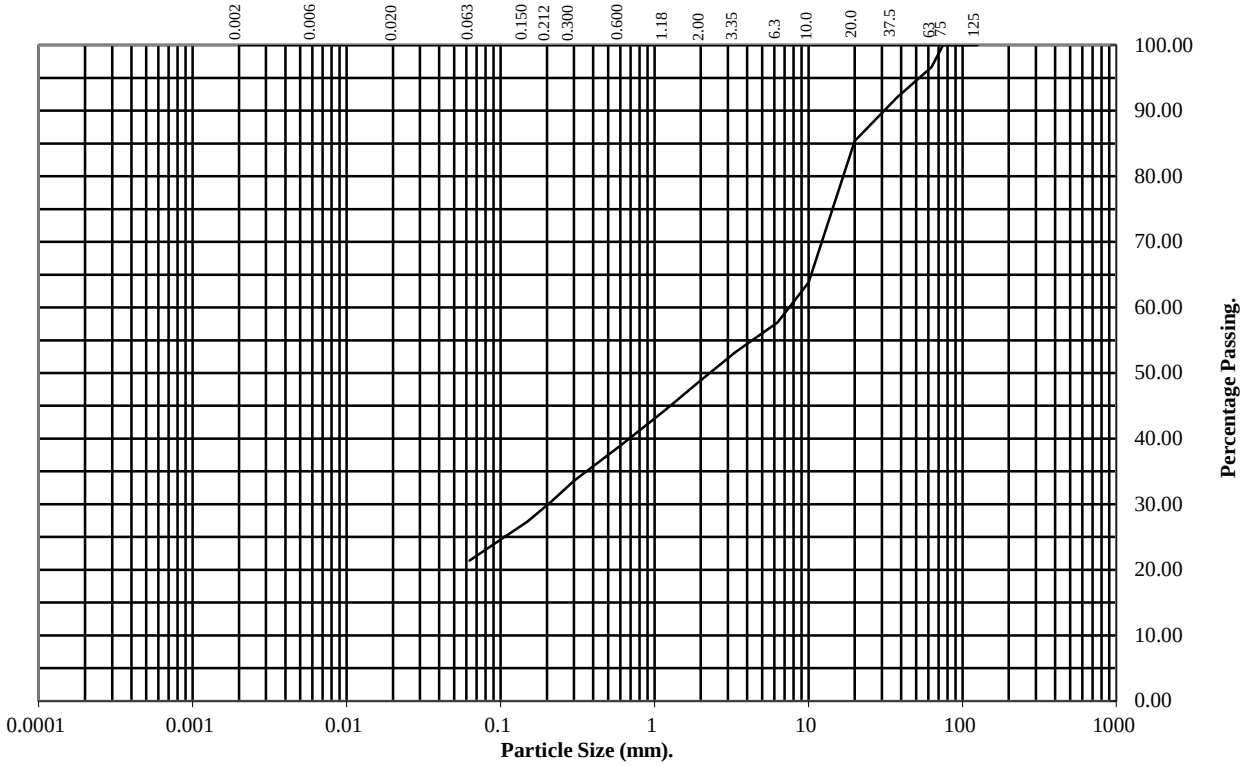
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP508** **Top Depth (m):** **0.40**

Sample Number: **3** **Base Depth(m):**

Sample Type: **D&B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	97
37.5	92
20	85
10	64
6.3	58
3.35	53
2	49
1.18	44
0.6	39
0.3	34
0.212	30
0.15	27
0.063	21

Soil Fraction	Total Percentage
Cobbles	3
Gravel	48
Sand	28
Silt/Clay	21

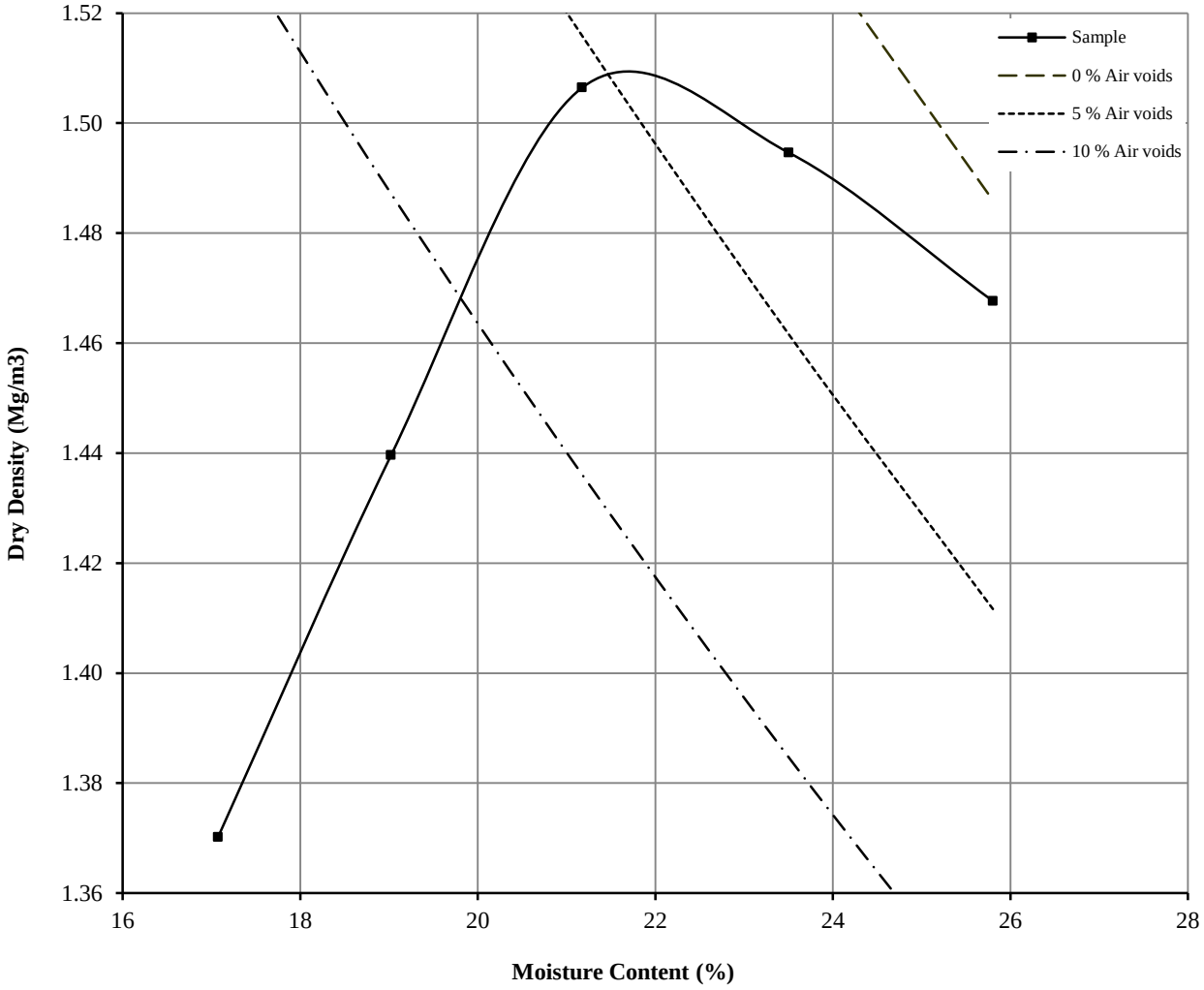
Remarks:

See Summary of Soil Descriptions

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

Hole Number:	**TP508**	**Top Depth (m) :**	**0.40**
Sample Number:	**3**	**Base Depth (m) :**	
Sample Type:	**D&B**		



Initial Moisture Content:		21	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.41	Measured	Material Retained on 37.5 mm Test Sieve (%):		8
Maximum Dry Density (Mg/m3):		1.51	Material Retained on 20.0 mm Test Sieve (%):		7
Optimum Moisture Content (%):		21			
Remarks See summary of soil descriptions.					

PARTICLE SIZE DISTRIBUTION TEST

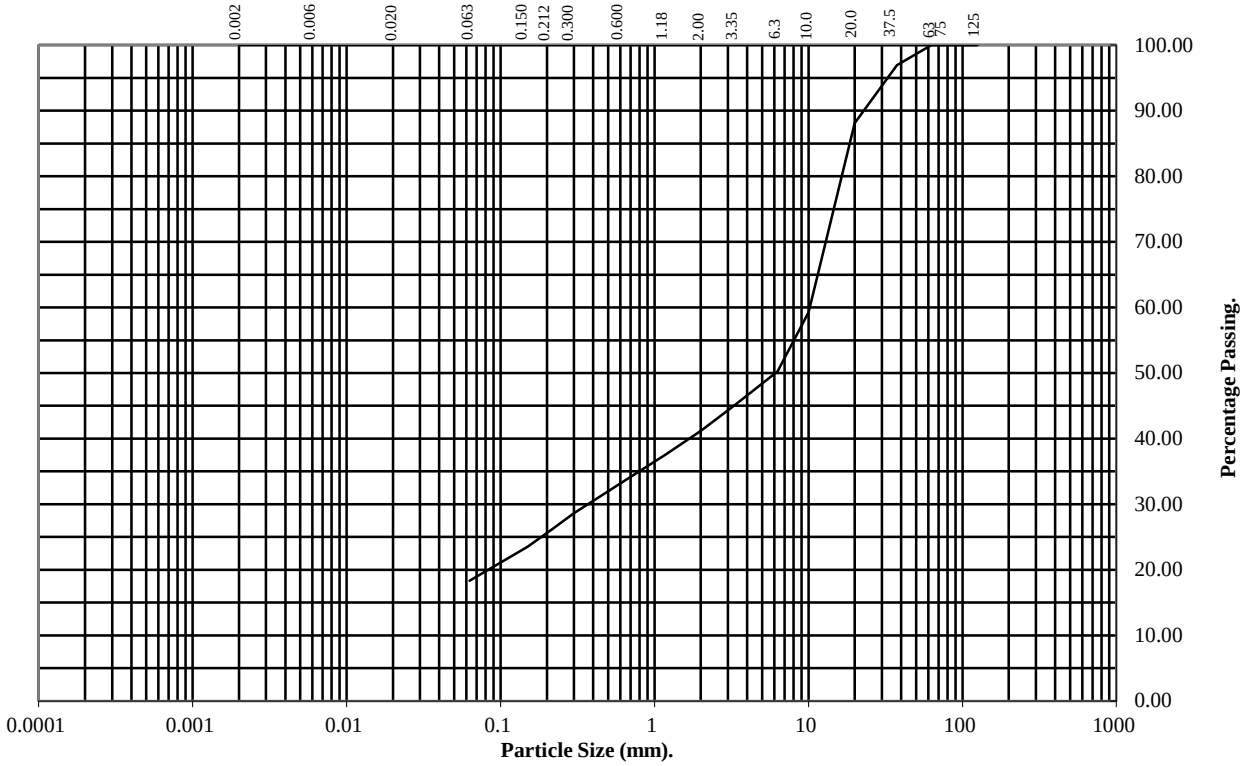
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP511** **Top Depth (m):** **0.80**

Sample Number: **2** **Base Depth(m):**

Sample Type: **D&B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	88
10	59
6.3	50
3.35	45
2	41
1.18	38
0.6	33
0.3	29
0.212	26
0.15	23
0.063	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	59
Sand	23
Silt/Clay	18

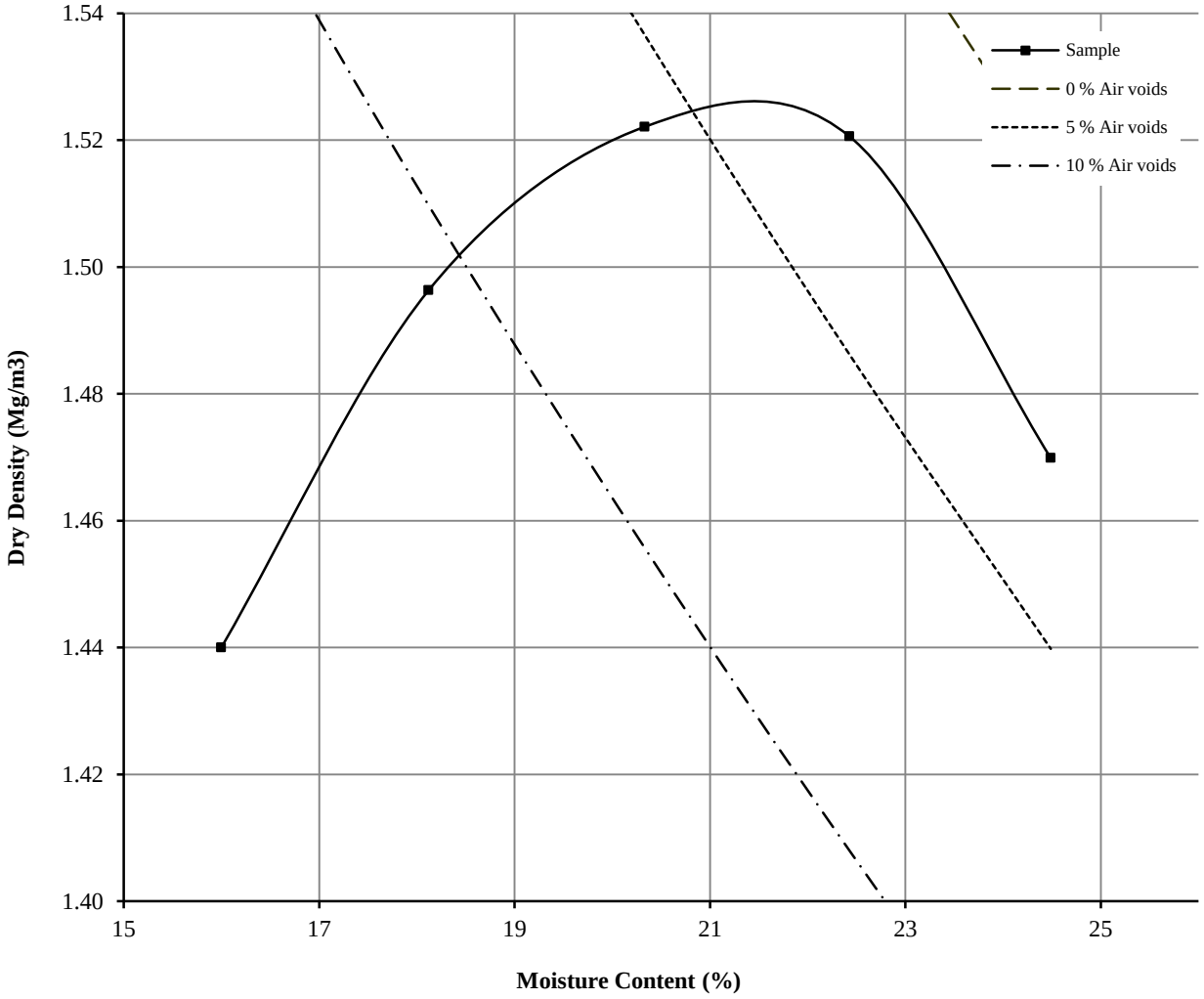
Remarks:

See Summary of Soil Descriptions

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.4 : 1990

Hole Number:	**TP511**	**Top Depth (m) :**	**0.80**
Sample Number:	**2**	**Base Depth (m) :**	
Sample Type:	**D&B**		



Initial Moisture Content:		18	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.41	Measured	Material Retained on 37.5 mm Test Sieve (%):		3
Maximum Dry Density (Mg/m3):		1.52	Material Retained on 20.0 mm Test Sieve (%):		9
Optimum Moisture Content (%):		20			
Remarks See summary of soil descriptions.					

PARTICLE SIZE DISTRIBUTION TEST

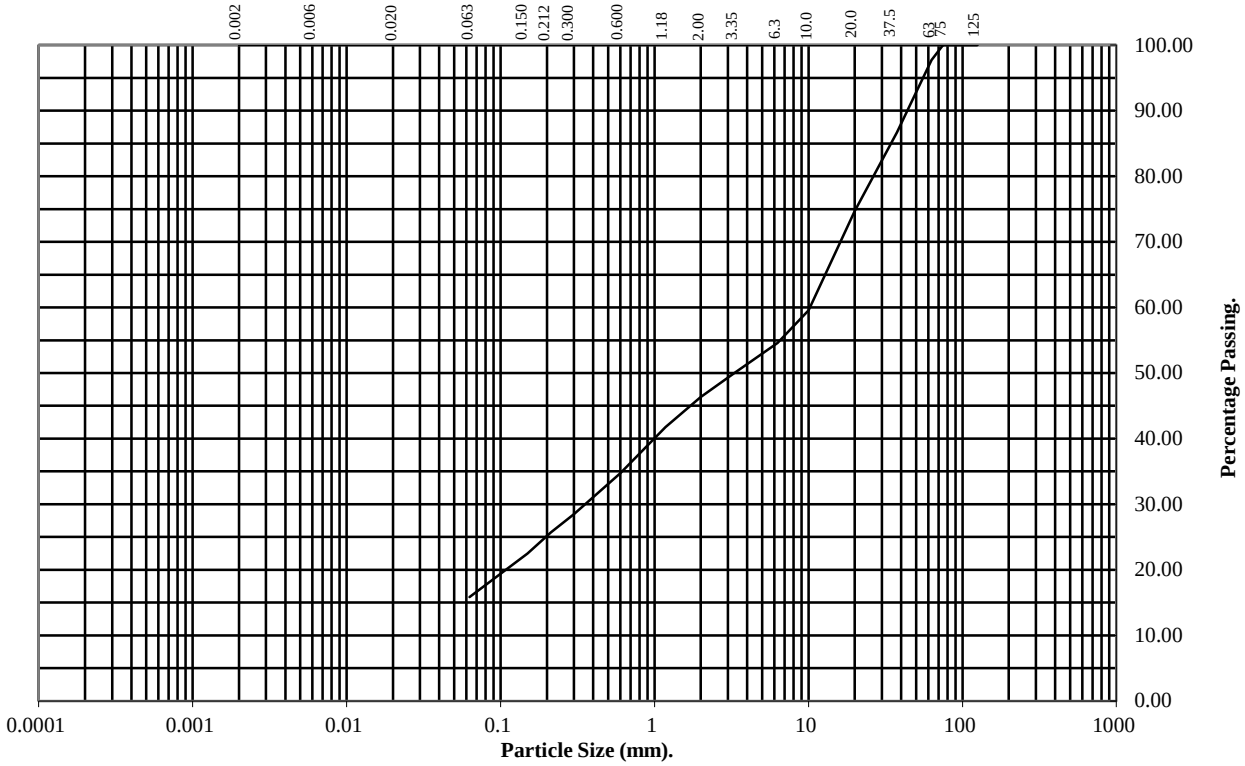
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP514** **Top Depth (m):** **1.00**

Sample Number: **4** **Base Depth(m):**

Sample Type: **D&B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	98
37.5	87
20	75
10	60
6.3	55
3.35	50
2	46
1.18	42
0.6	35
0.3	28
0.212	26
0.15	22
0.063	16

Soil Fraction	Total Percentage
Cobbles	2
Gravel	52
Sand	30
Silt/Clay	16

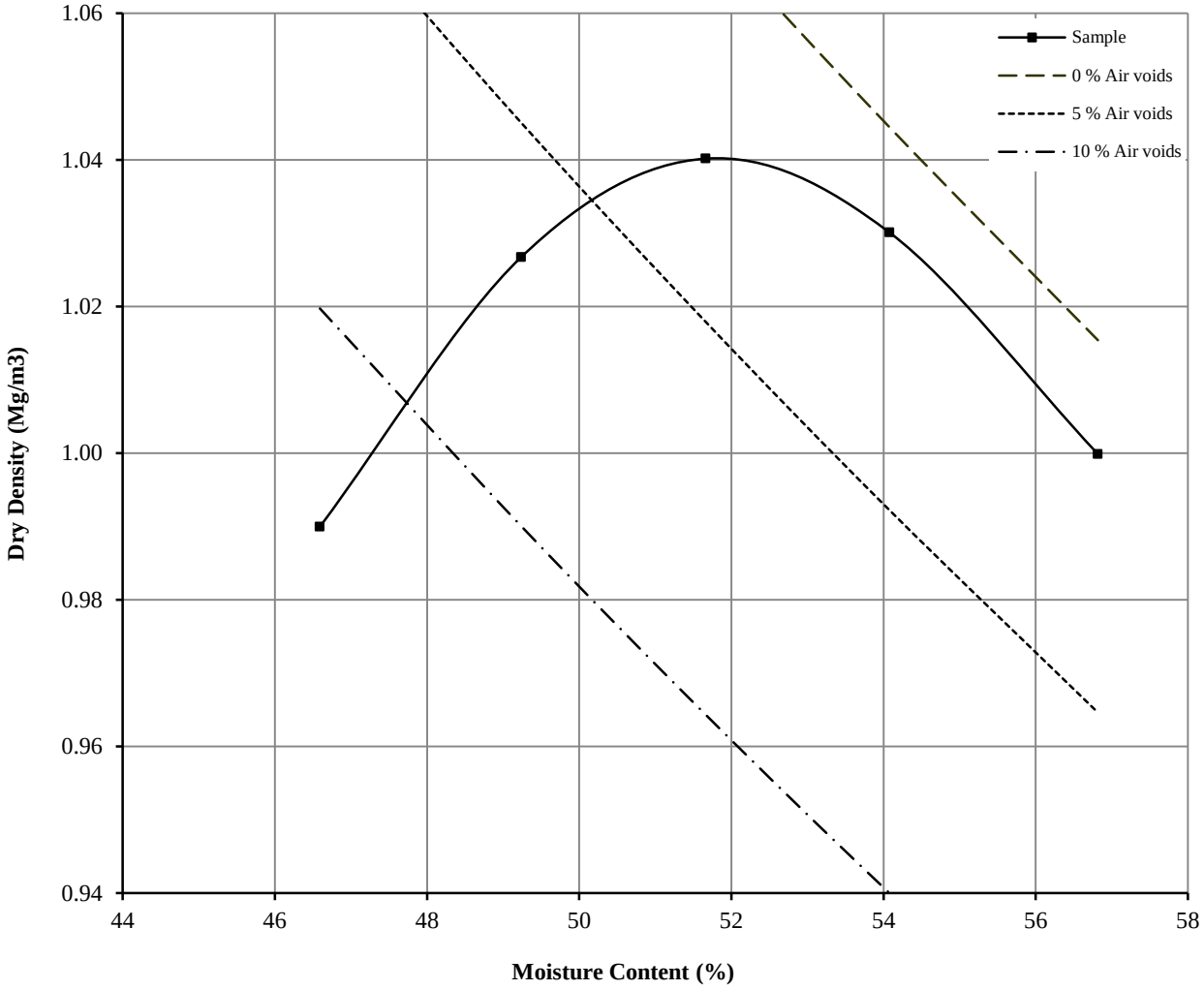
Remarks:

See Summary of Soil Descriptions

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : Clause 3.4 : 1990

Hole Number:	**TP514**	**Top Depth (m) :**	**1.00**
Sample Number:	**4**	**Base Depth (m) :**	
Sample Type:	**D&B**		



Initial Moisture Content:		61	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.40	Measured	Material Retained on 37.5 mm Test Sieve (%):		13
Maximum Dry Density (Mg/m3):		1.04	Material Retained on 20.0 mm Test Sieve (%):		12
Optimum Moisture Content (%):		52			
Remarks See summary of soil descriptions.					

Certificate of Analysis

Certificate Number	20-19313
	08-Oct-20
Client	Professional Soils Laboratory Ltd 5/7 Hexthorpe Road Hexthorpe DN4 0AR
Our Reference	20-19313
Client Reference	PSL20/5177
Order No	(not supplied)
Contract Title	Westgate, Cleckheaton
Description	11 Soil samples.
Date Received	02-Oct-20
Date Started	02-Oct-20
Date Completed	08-Oct-20
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Soil Samples

Our Ref 20-19313
Client Ref PSL20/5177
Contract Title Westgate, Cleckheaton

			Lab No	1737087	1737088	1737089	1737090	1737091	1737092	1737093	1737094	1737095	1737096	1737097
			Sample ID	BH508	BH509	BH509	BH503	BH503	BH505	BH506	BH507	BH508	TP506	TP513
			Depth	2.00	1.00	2.50	2.00	6.00	7.50	7.50	1.00	1.00	2.30	4.80
			Other ID	2	1	3	2	6	7	6	1	1	5	7
			Sample Type	D	D	D	D	D	D	D	D	D	D	D
			Sampling Date	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
			Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**											
Inorganics														
pH	DETSC 2008#		pH	6.2	7.0	7.2	7.8	7.7	7.1	3.5	8.5	7.4	4.6	3.2
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	72	56	41	180	230	710	180	51	75	1400	3200

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

Information in Support of the Analytical Results

Our Ref 20-19313
Client Ref PSL20/5177
Contract Westgate, Cleckheaton

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1737087	BH508 2.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737088	BH509 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737089	BH509 2.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737090	BH503 2.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737091	BH503 6.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737092	BH505 7.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737093	BH506 7.50 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737094	BH507 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737095	BH508 1.00 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737096	TP506 2.30 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	
1737097	TP513 4.80 SOIL		PT 1L	Sample date not supplied, Anions 2:1 (30 days), pH + Conductivity (7 days)	

Key: P-Plastic T-Tub

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

Soil Analysis Notes

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

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

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

Disposal

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

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

End of Report