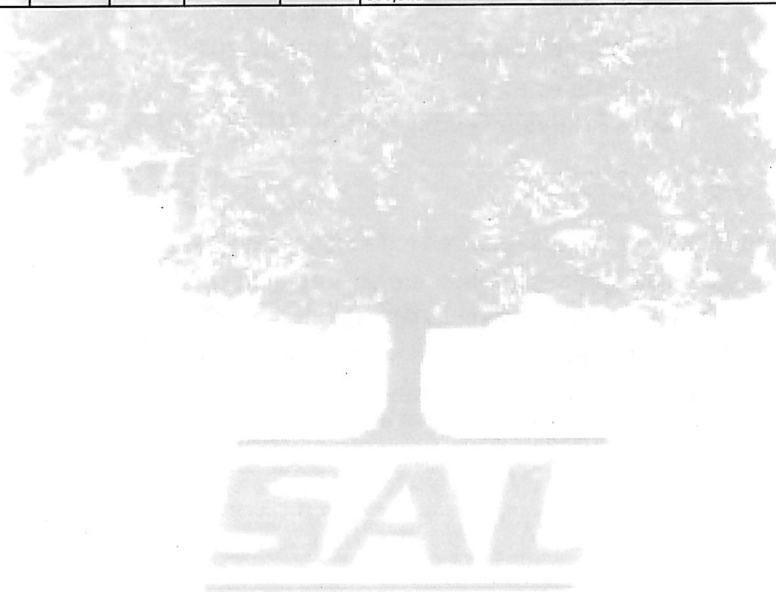


Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (Aliphatic) total	T85	M105		mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (Aromatic) total	T85	M105		mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070



## Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture	T277	AR	0.1	%	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Moisture @ 105 C	T162	AR	0.1	%	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Antimony	T6	M40	1	mg/kg	U	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Arsenic	T6	M40	2	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Beryllium	T6	M40	2	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Boron (water-soluble)	T6	AR	1	mg/kg	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Cadmium	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Chromium	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Copper	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Cyanide(Total)	T546	AR	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Lead	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Mercury	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Nickel	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
pH	T7	AR			M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Phenols(Mono)	T546	AR	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Selenium	T6	M40	3	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Total Organic Carbon	T21	M40	0.1	%	N	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Vanadium	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Zinc	T6	M40	1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Naphthalene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Acenaphthylene	T207	M105	0.1	mg/kg	U	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Acenaphthene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Fluorene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Phenanthrene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Anthracene	T207	M105	0.1	mg/kg	U	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Fluoranthene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Pyrene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Chrysene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
PAH(total)	T207	M105	0.1	mg/kg	U	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Benzene	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
EthylBenzene	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
M/P Xylene	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
O Xylene	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070
Toluene	T209	M105	10	µg/kg	M	003,006,009-010,013,015-016,018-019,022-029,031,033,036,042,044,051,053,058-059,062,064-066,070

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil  
 TPH UKCWG

Analysed as Soil

					SAL Reference	365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
					Customer Sample Reference	TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
					Date Sampled	02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
					Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	<4	<4	<4	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	1	<1	<1	<1	2	1	
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	2	<1	<1	<1	4	3	
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	3.0	N.D.	N.D.	N.D.	6.0	4.0	
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	3.0	N.D.	N.D.	N.D.	6.0	4.0	

## Index to symbols used in Supplement to 365668-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
9	LOD raised due to dilution of sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

## Notes

Supplemental report issued to correct the references for samples 010 and 011.

## Method Index

Value	Description
T162	Grav (1 Dec) (105 C)
T206	GC/FID (MCERTS)
T8	GC/FID
T21	OX/IR
T209	GC/MS(Head Space)(MCERTS)
T7	Probe
T546	Colorimetry (CF)
T6	ICP/OES
T277	Grav (1 Dec) (40 C)
T85	Calc
T207	GC/MS (MCERTS)

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil  
TPH UKCWG

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	(9) <10	(9) <10	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	<4	21	21	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	N.D.	21	21	1.0	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	2	2	<1	(9) <10	18	2	<1	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	14	6	<1	57	69	6	1	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	1	2	<1	13	15	1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	17	10	N.D.	70	100	9.0	1.0	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	17	10	N.D.	91	120	10	1.0	N.D.

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil  
TPH UKCWG

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.30	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	<4	<4	<4	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	3	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	2	1	1	<1	<1	<1	8	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	2.0	1.0	1.0	N.D.	N.D.	N.D.	11	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	2.0	1.0	1.0	N.D.	N.D.	N.D.	11	N.D.

<b>SAL Reference:</b> 365668 <b>Project Site:</b> Croxley Rail Link Ground Investigation Phase 1 <b>Customer Reference:</b> TB7219											
Soil		Analysed as Soil									
BTEX, MTBE											
SAL Reference		365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070			
Customer Sample Reference		TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30			
Date Sampled		02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	Test Sample	LOD	Units							
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10

<b>SAL Reference:</b> 365668 <b>Project Site:</b> Croxley Rail Link Ground Investigation Phase 1 <b>Customer Reference:</b> TB7219											
Soil		Analysed as Soil									
TPH UKCWG											
SAL Reference		365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018		
Customer Sample Reference		BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00		
Date Sampled		05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013		
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil		
Determinand	Method	Test Sample	LOD	Units							
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<sup>(9)</sup> <10	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<sup>(9)</sup> <10	<2	<2	<2	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<sup>(9)</sup> <10	2	<1	<1	<1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	19	6	<4	<4	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<sup>(9)</sup> <10	<1	<1	<1	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	19	8.0	N.D.	N.D.	N.D.	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<sup>(9)</sup> <10	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<sup>(9)</sup> <10	1	<1	<1	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	32	22	2	<1	<1	<1	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	140	48	9	1	<1	<1	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	17	6	2	<1	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	190	77	13	1.0	N.D.	N.D.	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	210	85	13	1.0	N.D.	N.D.	N.D.

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil Analysed as Soil  
 BTEX, MTBE

SAL Reference					365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference					BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled					05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil Analysed as Soil  
 BTEX, MTBE

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil Analysed as Soil  
 BTEX, MTBE

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.30	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil  
 PAH US EPA 16 (B and K split)

Analysed as Soil

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.30	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	0.2	<0.1	0.2	<0.1	1.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	0.1	<0.1	0.2	<0.1	1.0	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	0.3	<0.1	0.4	<0.1	3.8	<0.1

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil  
 PAH US EPA 16 (B and K split)

Analysed as Soil

SAL Reference					365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
Customer Sample Reference					TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
Date Sampled					02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units							
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.2
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1	0.3	0.7
Pyrene	T207	M105	0.1	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1	0.3	0.6
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.3
Chrysene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.3
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
PAH(total)	T207	M105	0.1	mg/kg	<0.1	1.8	<0.1	<0.1	<0.1	0.8	3.2

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil  
 PAH US EPA 16 (B and K split)

Analysed as Soil

SAL Reference					365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference					BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled					05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Naphthalene	T207	M105	0.1	mg/kg	0.2	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	0.1	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	1.8	33	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	0.8	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	5.5	48	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	5.2	40	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	3.3	16	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	3.1	16	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	4.1	14	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	2.2	7.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	3.4	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	2.1	5.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	0.6	1.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	2.4	6.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	35	220	0.8	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil  
 PAH US EPA 16 (B and K split)

Analysed as Soil

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	0.3	<0.1	0.3	0.7	0.2	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	0.2	0.7	0.1	0.7	1.6	0.5	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	0.3	0.6	0.1	0.6	1.4	0.5	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.7	0.2	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.8	0.3	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	0.4	0.2	<0.1	0.6	0.9	0.3	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	0.2	0.1	<0.1	0.3	0.6	0.2	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	0.3	0.2	<0.1	0.5	0.7	0.2	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	0.2	0.1	<0.1	0.3	0.5	0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.5	0.2	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	2.2	2.8	0.2	4.6	8.9	2.7	<0.1	<0.1



SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil  
 Suite E1

Analysed as Soil

					SAL Reference	365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
					Customer Sample Reference	CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.30	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
					Date Sampled	28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
					Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units									
Antimony	T6	M40	1	mg/kg	<1	1	<1	2	2	1	6	<1	
Arsenic	T6	M40	2	mg/kg	8	14	7	14	10	11	24	8	
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2	
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium	T6	M40	1	mg/kg	27	26	30	30	15	14	37	11	
Copper	T6	M40	1	mg/kg	12	24	11	18	28	10	81	8	
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	
Lead	T6	M40	1	mg/kg	21	52	25	18	51	12	75	10	
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	
Nickel	T6	M40	1	mg/kg	14	21	20	24	16	15	44	13	
pH	T7	AR			7.4	8.2	8.1	7.5	7.3	8.3	8.0	8.0	
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	
Total Organic Carbon	T21	M40	0.1	%	6.3	0.9	1.0	0.4	32	1.4	11	1.3	
Vanadium	T6	M40	1	mg/kg	28	38	27	38	25	25	49	19	
Zinc	T6	M40	1	mg/kg	28	50	53	48	200	38	150	31	

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 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil  
 Suite E1

Analysed as Soil

					SAL Reference	365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
					Customer Sample Reference	TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
					Date Sampled	02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
					Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	1	6	5	2	2	4	<1	
Arsenic	T6	M40	2	mg/kg	11	27	18	14	12	15	4	
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	
Chromium	T6	M40	1	mg/kg	19	41	61	29	29	28	6	
Copper	T6	M40	1	mg/kg	12	64	36	16	17	47	5	
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	
Lead	T6	M40	1	mg/kg	17	55	32	23	25	58	11	
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	
Nickel	T6	M40	1	mg/kg	17	45	43	22	30	28	7	
pH	T7	AR			8.1	8.1	8.3	7.9	8.1	8.2	8.1	
Phenols(Mono)	T546	AR	1	mg/kg	<1	1	1	<1	<1	<1	<1	
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	
Total Organic Carbon	T21	M40	0.1	%	0.7	5.4	1.6	0.9	0.8	4.0	4.1	
Vanadium	T6	M40	1	mg/kg	32	57	62	47	42	44	10	
Zinc	T6	M40	1	mg/kg	48	120	78	54	55	130	28	

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil  
 Suite E1  
 Analysed as Soil

SAL Reference					365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference					BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled					05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	4	3	4	3	2	2	2	2
Arsenic	T6	M40	2	mg/kg	25	11	11	17	10	9	12	10
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	28	20	21	36	24	22	29	22
Copper	T6	M40	1	mg/kg	34	31	17	22	30	36	18	13
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	140	300	120	85	80	86	20	17
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	28	19	18	27	18	18	33	19
pH	T7	AR			7.3	7.7	7.8	7.2	7.1	7.1	7.0	7.3
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	1.8	2.8	1.1	0.4	1.1	1.1	0.2	0.1
Vanadium	T6	M40	1	mg/kg	47	27	33	39	32	31	37	31
Zinc	T6	M40	1	mg/kg	140	620	100	58	73	71	66	38

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil  
 Suite E1  
 Analysed as Soil

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	6	3	2	8	5	4	2	2
Arsenic	T6	M40	2	mg/kg	25	12	10	27	30	11	8	13
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	3	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	34	28	28	35	32	19	20	42
Copper	T6	M40	1	mg/kg	190	30	14	82	110	59	20	20
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	180	37	20	1100	460	260	60	17
Mercury	T6	M40	1	mg/kg	<1	<1	<1	1	2	<1	<1	<1
Nickel	T6	M40	1	mg/kg	35	23	17	32	35	19	16	20
pH	T7	AR			8.0	8.0	7.8	7.7	7.8	7.4	7.9	8.0
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	5.5	0.8	0.5	5.5	6.8	5.7	1.0	0.3
Vanadium	T6	M40	1	mg/kg	49	38	32	57	47	28	27	41
Zinc	T6	M40	1	mg/kg	100	57	46	260	270	180	71	58

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil Analysed as Soil  
 MCERTS Preparation

SAL Reference	365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference	BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled	05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	9.6	17	15	3.6	9.7	12	6.5	8.3
Moisture @ 105 C	T162	AR	0.1	%	8.7	14	17	5.7	14	13	4.5	10

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Soil Analysed as Soil  
 MCERTS Preparation

SAL Reference	365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference	TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled	07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	5.0	9.4	6.1	12	11	17	10	6.0
Moisture @ 105 C	T162	AR	0.1	%	5.9	14	2.6	14	18	26	11	4.6

SAL Reference: 365668  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
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Soil Analysed as Soil  
 MCERTS Preparation

SAL Reference	365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference	CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.30	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled	28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	20	8.1	6.5	3.2	75	15	11	16
Moisture @ 105 C	T162	AR	0.1	%	24	11	5.9	2.7	62	18	11	11

SAL Reference: 365668  
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Soil Analysed as Soil  
 MCERTS Preparation

SAL Reference	365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
Customer Sample Reference	TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
Date Sampled	02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units							
Moisture	T277	AR	0.1	%	10	7.1	6.1	9.3	6.0	13	15
Moisture @ 105 C	T162	AR	0.1	%	12	11	4.0	5.7	11	11	11

SAL Reference: 375439

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Water

Analysed as Water

Volatile Organic Compounds (USEPA 624)

SAL Reference					375439 001	375439 002	375439 003	375439 004
Customer Sample Reference					BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94
Date Sampled					05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014
Time Sampled					08:45	10:30	12:10	11:15
Determinand	Method	Test Sample	LOD	Units				
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,2-Trichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,3-Trichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1
Bromobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l	<1	<1	<1	<1
Bromomethane	T54	AR	1	µg/l	<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Chlorodibromomethane	T54	AR	1	µg/l	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	<1	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Dichloromethane	T54	AR	50	µg/l	<50	<50	<50	<50
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Styrene	T54	AR	1	µg/l	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1

### Index to symbols used in 375439-1

SAL Reference: 375439  
 Project Site: Croxley Rail Link Ground Investigation Phase 1  
 Customer Reference: TB7219

Water Analysed as Water  
 Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference		375439 001	375439 002	375439 003	375439 004			
Customer Sample Reference		BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94			
Date Sampled		05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014			
Time Sampled		08:45	10:30	12:10	11:15			
Determinand	Method	Test Sample	LOD	Units				
Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1



SAL Reference: 375439

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Water

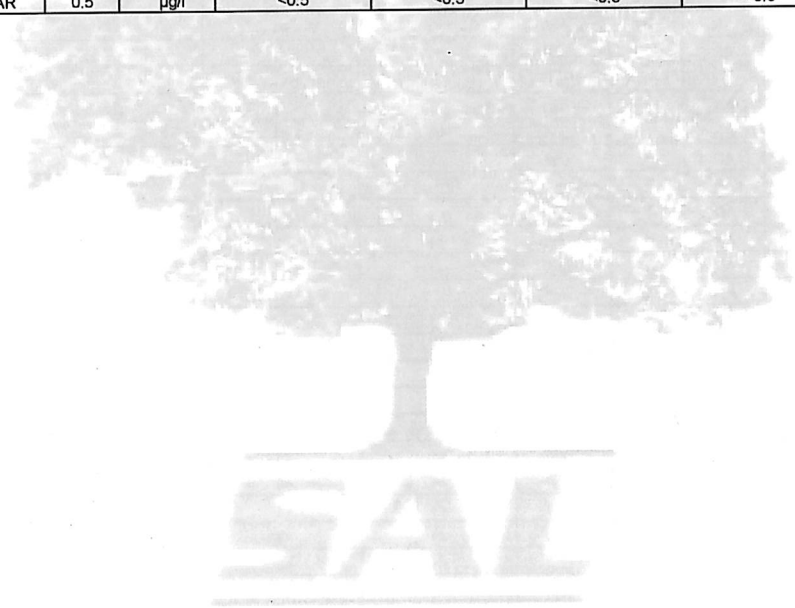
Analysed as Water

Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference					375439 001	375439 002	375439 003	375439 004
Customer Sample Reference					BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94
Date Sampled					05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014
Time Sampled					08:45	10:30	12:10	11:15
Determinand	Method	Test Sample	LOD	Units				
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
1,3-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
1,4-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
2,4,5-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1
2,4,6-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1
2,4-Dichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1
2,4-Dimethylphenol	T71	AR	1	µg/l	<1	<1	<1	<1
2,4-Dinitrophenol	T71	AR	1	µg/l	<1	<1	<1	<1
2,4-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1
2,6-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1
2-Chloronaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1
2-Chlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1
2-methyl phenol	T71	AR	1	µg/l	<1	<1	<1	<1
2-Methylnaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1
2-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1
2-Nitrophenol	T71	AR	1	µg/l	<1	<1	<1	<1
3-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1
3/4-Methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1
4-Bromophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1
4-Chloro-3-methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1
4-Chloroaniline	T71	AR	1	µg/l	<1	<1	<1	<1
4-Chlorophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1
4-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1
4-Nitrophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5
Acenaphthene	T71	AR	1	µg/l	<1	<1	<1	<1
Acenaphthylene	T71	AR	1	µg/l	<1	<1	<1	<1
Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1
Azobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
Benzo(a)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1
Benzo(a)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1
Benzo(ghi)Perylene	T71	AR	1	µg/l	<1	<1	<1	<1
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	<1	<1	<1	<1
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	<1	<1	<1	<1
Butyl benzylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1
Carbazole	T71	AR	1	µg/l	<1	<1	<1	<1
Chrysene	T71	AR	1	µg/l	<1	<1	<1	<1
Di-n-butylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1
Di-n-octylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1
Dibenzofuran	T71	AR	1	µg/l	<1	<1	<1	<1
Diethyl phthalate	T71	AR	1	µg/l	<1	<1	<1	<1
Dimethyl phthalate	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5
Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1
Fluorene	T71	AR	1	µg/l	<1	<1	<1	<1
Hexachlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
Hexachlorobutadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5
Hexachlorocyclopentadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5
Hexachloroethane	T71	AR	1	µg/l	<1	<1	<1	<1
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1
Isophorone	T71	AR	1	µg/l	<1	<1	<1	<1
Naphthalene	T71	AR	1	µg/l	<1	<1	<1	<1
Nitrobenzene	T71	AR	1	µg/l	<1	<1	<1	<1
Pentachlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1
Phenanthrene	T71	AR	1	µg/l	<1	<1	<1	<1
Phenol	T71	AR	1	µg/l	<1	<1	<1	<1

<b>SAL Reference:</b> 375439 <b>Project Site:</b> Croxley Rail Link Ground Investigation Phase 1 <b>Customer Reference:</b> TB7219											
Water		Analysed as Water									
Suite F8											
		<b>SAL Reference</b>		375439 001		375439 002		375439 003		375439 004	
		<b>Customer Sample Reference</b>		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94	
		<b>Date Sampled</b>		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014	
		<b>Time Sampled</b>		08:45		10:30		12:10		11:15	
<b>Determinand</b>		<b>Method</b>	<b>Test Sample</b>	<b>LOD</b>	<b>Units</b>						
Chromium VI		T686	AR	0.003	mg/l	<0.003		<0.003		<0.003	

<b>SAL Reference:</b> 375439 <b>Project Site:</b> Croxley Rail Link Ground Investigation Phase 1 <b>Customer Reference:</b> TB7219											
Water		Analysed as Water									
Suite F9											
		<b>SAL Reference</b>		375439 001		375439 002		375439 003		375439 004	
		<b>Customer Sample Reference</b>		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94	
		<b>Date Sampled</b>		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014	
		<b>Time Sampled</b>		08:45		10:30		12:10		11:15	
<b>Determinand</b>		<b>Method</b>	<b>Test Sample</b>	<b>LOD</b>	<b>Units</b>						
Cresols		T149	AR	0.5	µg/l	<0.5		<0.5		<0.5	
Phenol		T149	AR	0.5	µg/l	<0.5		<0.5		<0.5	
Trimethyl phenol		T149	AR	0.5	µg/l	<0.5		<0.5		<0.5	
Xylenols		T149	AR	0.5	µg/l	<0.5		<0.5		<0.5	



SAL Reference: 375439									
Project Site: Croxley Rail Link Ground Investigation Phase 1									
Customer Reference: TB7219									
Water Analysed as Water									
Poly-Chlorinated Biphenyls (WHO 12)									
SAL Reference		375439 001		375439 002		375439 003		375439 004	
Customer Sample Reference		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94	
Date Sampled		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014	
Time Sampled		08:45		10:30		12:10		11:15	
Determinand	Method	Test Sample	LOD	Units					
PCB BZ#105	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#114	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#118	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#123	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#126	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#156	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#157	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#167	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#169	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#189	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#77	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#81	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005

SAL Reference: 375439									
Project Site: Croxley Rail Link Ground Investigation Phase 1									
Customer Reference: TB7219									
Water Analysed as Water									
Suite F6									
SAL Reference		375439 001		375439 002		375439 003		375439 004	
Customer Sample Reference		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94	
Date Sampled		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014	
Time Sampled		08:45		10:30		12:10		11:15	
Determinand	Method	Test Sample	LOD	Units					
TPH (C5-C10)	T54	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
TPH (C8-C10)	T54	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
TPH (C10-C26)	T81	AR	0.01	mg/l	0.34	<0.01	3.50	0.05	0.05
TPH (C10-C35)	T81	AR	0.01	mg/l	0.58	<0.01	7.5	0.06	0.06
TPH (C35-C40)	T81	AR	0.01	mg/l	0.04	<0.01	0.24	<0.01	<0.01
TPH (C8 - C40)	T85	AR	0.01	mg/l	0.62	<0.01	7.70	0.06	0.06
TPH (C10-C40 Mineral Oil:WAC)	T81	AR	0.01	mg/l	0.62	<0.01	7.7	0.06	0.06

SAL Reference: 375439									
Project Site: Croxley Rail Link Ground Investigation Phase 1									
Customer Reference: TB7219									
Water Analysed as Water									
Suite F7									
SAL Reference		375439 001		375439 002		375439 003		375439 004	
Customer Sample Reference		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94	
Date Sampled		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014	
Time Sampled		08:45		10:30		12:10		11:15	
Determinand	Method	Test Sample	LOD	Units					
Cyanide(Complex)	T85	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide(free)	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
Thiocyanate	T4	AR	1	mg/l	<1	<1	<1	<1	<1



SAL Reference: 375439								
Project Site: Croxley Rail Link Ground Investigation Phase 1								
Customer Reference: TB7219								
Water		Analysed as Water						
BTEX, MTBE								
SAL Reference		375439 001		375439 002		375439 003		375439 004
Customer Sample Reference		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94
Date Sampled		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014
Time Sampled		08:45		10:30		12:10		11:15
Determinand	Method	Test Sample	LOD	Units				
Benzene	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1

SAL Reference: 375439								
Project Site: Croxley Rail Link Ground Investigation Phase 1								
Customer Reference: TB7219								
Water		Analysed as Water						
PAH US EPA 16 (B and K split)								
SAL Reference		375439 001		375439 002		375439 003		375439 004
Customer Sample Reference		BH106 EW001 1.49		BH105 EW001 1.00		BH102 EW001 2.06		BH104 EW001 0.94
Date Sampled		05-FEB-2014		05-FEB-2014		05-FEB-2014		05-FEB-2014
Time Sampled		08:45		10:30		12:10		11:15
Determinand	Method	Test Sample	LOD	Units				
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	0.01	0.03
Acenaphthylene	T149	AR	0.01	µg/l	0.02	<0.01	<0.01	<0.01
Acenaphthene	T149	AR	0.01	µg/l	0.04	<0.01	0.18	0.04
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	0.12	<0.01
Phenanthrene	T149	AR	0.01	µg/l	0.17	<0.01	0.04	0.03
Anthracene	T149	AR	0.01	µg/l	0.06	<0.01	0.03	<0.01
Fluoranthene	T149	AR	0.01	µg/l	0.42	<0.01	0.02	0.04
Pyrene	T149	AR	0.01	µg/l	0.37	<0.01	0.02	0.04
Benzo(a)Anthracene	T149	AR	0.01	µg/l	0.19	<0.01	<0.01	0.02
Chrysene	T149	AR	0.01	µg/l	0.20	<0.01	<0.01	0.02
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	0.25	<0.01	0.02	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	0.29	<0.01	0.02	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	0.25	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	0.20	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	0.04	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	0.19	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	2.7	<0.01	0.46	0.22

SAL Reference: 375439								
Project Site: Croxley Rail Link Ground Investigation Phase 1								
Customer Reference: TB7219								
Water		Analysed as Water						
Suite F14								
SAL Reference			375439 001	375439 002	375439 003	375439 004		
Customer Sample Reference			BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94		
Date Sampled			05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014		
Time Sampled			08:45	10:30	12:10	11:15		
Determinand	Method	Test Sample	LOD	Units				
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	480	310	2400	320
Calcium	T6	AR	0.1	mg/l	200	180	440	130
Iron	T6	AR	0.01	mg/l	0.97	1.2	9.3	<0.01
Magnesium	T6	AR	0.1	mg/l	12	8.1	11	5.3
Manganese	T6	AR	0.01	mg/l	2.1	0.36	2.5	0.43
Nitrate	T686	AR	0.5	mg/l	8.7	38	4.4	31
Nitrite	T686	AR	0.1	mg/l	0.1	<0.1	<0.1	0.1
Potassium	T6	AR	0.1	mg/l	6.3	4.8	7.9	2.7
Sodium	T6	AR	0.1	mg/l	38	21	74	23
Sulphate	T686	AR	0.5	mg/l	38	19	60	26
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05

SAL Reference: 375439								
Project Site: Croxley Rail Link Ground Investigation Phase 1								
Customer Reference: TB7219								
Water		Analysed as Water						
TPH UKCWG								
SAL Reference			375439 001	375439 002	375439 003	375439 004		
Customer Sample Reference			BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94		
Date Sampled			05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014		
Time Sampled			08:45	10:30	12:10	11:15		
Determinand	Method	Test Sample	LOD	Units				
TPH (C5-C6 aliphatic)	T215	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010
TPH (C6-C8 aliphatic)	T215	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010
TPH (C8-C10 aliphatic)	T215	AR	0.010	mg/l	<0.010	<0.010	0.046	<0.010
TPH DW(C10-C12 aliphatic)	T81	AR	0.01	mg/l	0.01	<0.01	0.03	<0.01
TPH DW(C12-C16 aliphatic)	T81	AR	0.01	mg/l	0.03	<0.01	0.05	<0.01
TPH DW(C16-C21 aliphatic)	T81	AR	0.01	mg/l	0.05	<0.01	0.43	0.02
TPH DW(C21-C35 aliphatic)	T81	AR	0.01	mg/l	0.28	<0.01	7.8	0.03
TPH (C35-C44 aliphatic)	T81	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (Aliphatic) total	T85	AR		mg/l	0.37	N.D.	8.4	0.05
TPH (C6-C7 aromatic)	T215	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010
TPH (C7-C8 aromatic)	T215	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010
TPH (C8-C10 aromatic)	T215	AR	0.010	mg/l	<0.010	<0.010	<0.010	<0.010
TPH DW(C10-C12 aromatic)	T81	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH DW(C12-C16 aromatic)	T81	AR	0.01	mg/l	0.08	<0.01	<0.01	<0.01
TPH DW(C16-C21 aromatic)	T81	AR	0.01	mg/l	0.03	<0.01	<0.01	<0.01
TPH DW(C21-C35 aromatic)	T81	AR	0.01	mg/l	0.02	<0.01	<0.01	<0.01
TPH (C35-C44 aromatic)	T81	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (Aromatic) total	T85	AR		mg/l	0.13	N.D.	N.D.	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	AR		mg/l	0.50	N.D.	8.4	0.05
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/l	<0.010	<0.010	0.047	<0.010

SAL Reference: 375439

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Water  
Suite F1

Analysed as Water

SAL Reference					375439 001	375439 002	375439 003	375439 004
Customer Sample Reference					BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94
Date Sampled					05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014
Time Sampled					08:45	10:30	12:10	11:15
Determinand	Method	Test Sample	LOD	Units				
Sb (Dissolved)	T281	AR	1	µg/l	<1	<1	<1	<1
As (Dissolved)	T281	AR	0.2	µg/l	1.1	0.8	1.7	0.7
Be (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05
Cd (Dissolved)	T281	AR	0.02	µg/l	0.04	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	5	3	2	2
Cu (Dissolved)	T281	AR	0.5	µg/l	1.6	<0.5	0.9	<0.5
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	18	9	11	8
Se (Dissolved)	T281	AR	0.5	µg/l	0.8	1.3	1.3	1.4
V (Dissolved)	T281	AR	2	µg/l	<2	<2	<2	<2
Zn (Dissolved)	T281	AR	2	µg/l	4	<2	<2	<2
Ammoniacal nitrogen	T686	AR	0.05	mg/l	<0.05	<0.05	0.21	0.12
Chloride	T686	AR	1	mg/l	21	19	75	25
Cyanide(Total)	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05
Hardness expressed as CaCO3	T6	AR	10	mg/l	550	490	1100	360
pH	T7	AR			7.0	7.1	7.1	7.2
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5

SAL Reference: 375439

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Water  
Suite F10

Analysed as Water

SAL Reference					375439 001	375439 002	375439 003	375439 004
Customer Sample Reference					BH106 EW001 1.49	BH105 EW001 1.00	BH102 EW001 2.06	BH104 EW001 0.94
Date Sampled					05-FEB-2014	05-FEB-2014	05-FEB-2014	05-FEB-2014
Time Sampled					08:45	10:30	12:10	11:15
Determinand	Method	Test Sample	LOD	Units				
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3	5	<3
Chemical Oxygen Demand	T4	AR	5	mg/l	18	<5	42	5

