

Results Summary

Report No.: 18-18532

				ELAB Reference	142937	142940	142941	142944	142947	142951	142967	142971	142975
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS12	WS12	WS12	TP01	TP03	TP05	TP12	TP14	TP17/HP
				Sample Depth (m)	0.20	2.80	3.80	0.70	0.10	0.50	0.80	0.70	0.20
				Sampling Date	10/07/2018	10/07/2018	10/07/2018	06/07/2018	05/07/2018	06/07/2018	05/07/2018	05/07/2018	09/07/2018
Determinand	Codes	Units	LOD										
Metals													
Arsenic	M	mg/kg	1	14.2	n/t	25.9	n/t	11.6	12.7	4.2	10.4	n/t	
Barium	U	mg/kg	10	137	n/t	473	n/t	67.9	173	31.0	117	n/t	
Beryllium	U	mg/kg	1	1.1	n/t	2.5	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t	
Cadmium	M	mg/kg	0.5	< 0.5	n/t	1.7	n/t	< 0.5	1.1	< 0.5	< 0.5	n/t	
Chromium	M	mg/kg	5	32.5	n/t	42.0	n/t	20.7	21.7	10.4	21.4	n/t	
Copper	M	mg/kg	5	26.9	n/t	167	n/t	16.9	168	9.7	24.8	n/t	
Lead	M	mg/kg	5	112	n/t	504	n/t	38.6	341	14.6	84.5	n/t	
Water soluble magnesium	N	g/l	0.01	n/t	0.02	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t	
Mercury	M	mg/kg	0.5	< 0.5	n/t	0.9	n/t	< 0.5	< 0.5	< 0.5	< 0.5	n/t	
Nickel	M	mg/kg	5	24.1	n/t	45.3	n/t	14.8	15.1	6.1	14.8	n/t	
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t	
Vanadium	M	mg/kg	5	44.2	n/t	57.7	n/t	24.2	25.3	12.0	31.0	n/t	
Zinc	M	mg/kg	5	115	n/t	531	n/t	64.5	299	22.4	80.5	n/t	
Anions													
Water Soluble Chloride	M	mg/l	20	n/t	< 20	21	< 20	n/t	n/t	n/t	n/t	n/t	
Water Soluble Chloride	M	mg/kg	40	< 40	n/t	< 40	n/t	< 40	< 40	< 40	137	n/t	
Water Soluble Nitrate	M	mg/l	20	n/t	31	27	< 20	n/t	n/t	n/t	n/t	n/t	
Water Soluble Sulphate	M	g/l	0.02	0.04	0.91	0.22	< 0.02	0.03	0.57	0.03	0.12	n/t	
Inorganics													
Complex Cyanide	N	mg/kg	1	n/t	n/t	8.1	n/t	n/t	n/t	n/t	< 1.0	n/t	
Elemental Sulphur	M	mg/kg	20	< 20	n/t	630	n/t	< 20	< 20	< 20	32	n/t	
Free Cyanide	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t	n/t	n/t	< 1.0	n/t	
Ammoniacal Nitrogen as N	N	mg/kg	0.1	n/t	n/t	137	n/t	n/t	n/t	n/t	2.2	n/t	
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	n/t	< 0.8	< 0.8	< 0.8	< 0.8	n/t	
Total Sulphide	N	mg/kg	2	< 2	n/t	18	n/t	< 2	< 2	< 2	4	n/t	
Total Cyanide	M	mg/kg	1	< 1.0	n/t	8.1	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t	
Total Sulphur	N	%	0.01	n/t	0.34	0.26	0.01	n/t	n/t	n/t	n/t	n/t	
Acid Soluble Sulphate (SO4)	U	%	0.02	0.10	0.29	0.14	0.06	0.07	0.23	0.08	0.19	n/t	
Water Soluble Boron	N	mg/kg	0.5	< 0.5	n/t	2.8	n/t	< 0.5	< 0.5	< 0.5	< 0.5	n/t	
Miscellaneous													
pH	M	pH units	0.1	8.3	8.2	8.2	6.8	5.5	7.1	6.2	11.1	n/t	
Total Organic Carbon	N	%	0.01	1.5	n/t	6.0	n/t	1.1	1.5	0.21	1.3	n/t	
Phenols													
Total Phenols	N	mg/kg	6	< 6	n/t	< 6	n/t	< 6	< 6	< 6	8	n/t	
Polyaromatic hydrocarbons													
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	0.2	n/t	< 0.1	< 0.1	< 0.1	1.9	n/t	
Acenaphthylene	M	mg/kg	0.1	0.1	n/t	0.3	n/t	< 0.1	0.1	< 0.1	3.9	n/t	
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	0.6	n/t	< 0.1	< 0.1	< 0.1	6.4	n/t	
Fluorene	M	mg/kg	0.1	< 0.1	n/t	0.5	n/t	< 0.1	< 0.1	< 0.1	6.4	n/t	
Phenanthrene	M	mg/kg	0.1	0.4	n/t	3.3	n/t	< 0.1	0.4	< 0.1	23.4	n/t	
Anthracene	M	mg/kg	0.1	0.1	n/t	0.9	n/t	< 0.1	0.2	< 0.1	7.4	n/t	
Fluoranthene	M	mg/kg	0.1	1.3	n/t	6.8	n/t	0.1	2.3	< 0.1	49.1	n/t	
Pyrene	M	mg/kg	0.1	1.1	n/t	5.6	n/t	0.1	2.2	< 0.1	45.0	n/t	
Benzo(a)anthracene	M	mg/kg	0.1	1.0	n/t	3.4	n/t	< 0.1	1.4	< 0.1	22.9	n/t	
Chrysene	M	mg/kg	0.1	1.2	n/t	3.9	n/t	0.1	1.5	< 0.1	26.7	n/t	
Benzo (b) fluoranthene	M	mg/kg	0.1	1.3	n/t	3.8	n/t	0.3	1.5	< 0.1	24.0	n/t	
Benzo(k)fluoranthene	M	mg/kg	0.1	1.4	n/t	4.1	n/t	0.1	1.5	< 0.1	25.1	n/t	
Benzo (a) pyrene	M	mg/kg	0.1	1.3	n/t	4.1	n/t	< 0.1	1.6	< 0.1	26.7	n/t	
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	1.1	n/t	2.6	n/t	0.2	0.8	< 0.1	17.9	n/t	
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.3	n/t	0.6	n/t	< 0.1	0.3	< 0.1	4.5	n/t	
Benzo(g,h,i)perylene	M	mg/kg	0.1	1.0	n/t	2.6	n/t	0.1	1.2	< 0.1	17.2	n/t	
Coronene	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	
Total PAH(16)	M	mg/kg	0.4	11.8	n/t	43.5	n/t	1.3	15.1	< 0.4	309	n/t	
Total PAH(16) + Coronene	N	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	

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ELAB Reference	142937	142940	142941	142944	142947	142951	142967	142971	142975			
Customer Reference												
Sample ID												
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Location	WS12	WS12	WS12	TP01	TP03	TP05	TP12	TP14	TP17/HP			
Sample Depth (m)	0.20	2.80	3.80	0.70	0.10	0.50	0.80	0.70	0.20			
Sampling Date	10/07/2018	10/07/2018	10/07/2018	06/07/2018	05/07/2018	06/07/2018	05/07/2018	05/07/2018	09/07/2018			
Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
TPH CWG												
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0	22.9	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	n/t	1.3	n/t	< 1.0	< 1.0	< 1.0	136	n/t
>C12-C16 Aliphatic	N	mg/kg	1	9.6	n/t	3.7	n/t	< 1.0	< 1.0	< 1.0	1080	n/t
>C16-C21 Aliphatic	N	mg/kg	1	16.6	n/t	6.2	n/t	< 1.0	1.8	< 1.0	1400	n/t
>C21-C35 Aliphatic	N	mg/kg	1	32.0	n/t	36.1	n/t	< 1.0	38.1	< 1.0	1350	n/t
>C35-C40 Aliphatic	N	mg/kg	1	12.6	n/t	11.8	n/t	< 1.0	13.5	< 1.0	287	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0	16.7	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0	114	n/t
>C12-C16 Aromatic	N	mg/kg	1	7.9	n/t	2.8	n/t	< 1.0	< 1.0	< 1.0	1050	n/t
>C16-C21 Aromatic	N	mg/kg	1	17.9	n/t	7.9	n/t	< 1.0	2.1	< 1.0	1510	n/t
>C21-C35 Aromatic	N	mg/kg	1	51.3	n/t	50.5	n/t	< 1.0	57.5	< 1.0	1880	n/t
>C35-C40 Aromatic	N	mg/kg	1	20.9	n/t	15.3	n/t	< 1.0	20.7	< 1.0	393	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	169	n/t	136	n/t	< 1.0	134	< 1.0	9240	n/t
OrganoChlorine Pesticides												
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 10

Results Summary

Report No.: 18-18532

				ELAB Reference	142980	142987	142989	142990	142991	142994	142998	143001	143003
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP18	TP24	TP24	TP25	TP25	TP26	TP27	TP29	TP30
				Sample Depth (m)	2.00	0.30	1.50	0.50	2.00	0.50	1.00	1.50	1.50
				Sampling Date	09/07/2018	05/07/2018	05/07/2018	05/07/2018	05/07/2018	09/07/2018	09/07/2018	10/07/2018	05/07/2018
Determinand	Codes	Units	LOD										
Metals													
Arsenic	M	mg/kg	1	11.5	14.9	10.0	n/t	11.8	15.5	16.6	14.4	n/t	
Barium	U	mg/kg	10	138	85.8	116	n/t	119	156	200	225	n/t	
Beryllium	U	mg/kg	1	1.3	< 1.0	< 1.0	n/t	1.1	1.5	1.2	< 1.0	n/t	
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5	0.8	0.6	n/t	
Chromium	M	mg/kg	5	26.5	19.7	14.3	n/t	26.1	29.2	33.5	22.9	n/t	
Copper	M	mg/kg	5	26.9	20.7	67.0	n/t	29.4	35.4	62.5	35.7	n/t	
Lead	M	mg/kg	5	205	50.4	170	n/t	125	142	203	435	n/t	
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5	< 0.5	< 0.5	n/t	
Nickel	M	mg/kg	5	22.7	14.5	16.9	n/t	24.1	21.7	28.0	18.1	n/t	
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	< 1.0	1.3	< 1.0	< 1.0	n/t	
Vanadium	M	mg/kg	5	35.4	24.1	20.7	n/t	31.4	44.9	42.1	32.9	n/t	
Zinc	M	mg/kg	5	127	83.9	94.0	n/t	158	156	218	298	n/t	
Anions													
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	< 40	< 40	< 40	n/t	< 40	< 40	47	< 40	n/t	
Water Soluble Nitrate	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	
Water Soluble Sulphate	M	g/l	0.02	0.21	0.11	0.32	n/t	0.14	0.29	0.35	0.27	n/t	
Inorganics													
Complex Cyanide	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Elemental Sulphur	M	mg/kg	20	172	< 20	26	n/t	37	34	305	511	n/t	
Free Cyanide	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Ammoniacal Nitrogen as N	N	mg/kg	0.1	n/t	n/t	n/t	n/t	1.2	n/t	n/t	n/t	82.9	
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8	< 0.8	< 0.8	n/t	
Total Sulphide	N	mg/kg	2	16	< 2	< 2	n/t	6	8	3	17	n/t	
Total Cyanide	M	mg/kg	1	1.2	< 1.0	< 1.0	n/t	< 1.0	1.7	1.1	1.6	n/t	
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	
Acid Soluble Sulphate (SO4)	U	%	0.02	0.16	0.09	0.16	n/t	0.08	0.20	0.22	0.15	n/t	
Water Soluble Boron	N	mg/kg	0.5	0.8	0.6	0.9	n/t	< 0.5	0.7	1.5	1.1	n/t	
Miscellaneous													
pH	M	pH units	0.1	8.8	8.3	8.7	n/t	8.3	8.5	8.4	8.2	n/t	
Total Organic Carbon	N	%	0.01	0.94	1.7	4.0	n/t	0.76	1.4	1.5	2.6	n/t	
Phenols													
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	n/t	< 6	< 6	< 6	< 6	n/t	
Polyaromatic hydrocarbons													
Naphthalene	M	mg/kg	0.1	1.7	0.1	0.3	n/t	< 0.1	0.1	0.2	< 0.1	n/t	
Acenaphthylene	M	mg/kg	0.1	0.8	0.4	0.2	n/t	< 0.1	0.5	< 0.1	< 0.1	n/t	
Acenaphthene	M	mg/kg	0.1	4.7	0.3	0.3	n/t	< 0.1	0.2	0.5	< 0.1	n/t	
Fluorene	M	mg/kg	0.1	4.8	0.4	0.3	n/t	0.1	0.3	0.4	< 0.1	n/t	
Phenanthrene	M	mg/kg	0.1	16.7	5.3	3.1	n/t	0.2	3.1	2.2	0.5	n/t	
Anthracene	M	mg/kg	0.1	3.5	1.6	1.0	n/t	0.1	0.9	0.6	0.2	n/t	
Fluoranthene	M	mg/kg	0.1	15.0	13.5	6.6	n/t	0.7	7.3	3.2	1.6	n/t	
Pyrene	M	mg/kg	0.1	11.5	11.6	5.7	n/t	0.9	6.3	2.7	1.4	n/t	
Benzo(a)anthracene	M	mg/kg	0.1	5.0	6.9	3.4	n/t	0.3	4.1	1.4	0.9	n/t	
Chrysene	M	mg/kg	0.1	5.7	7.6	3.7	n/t	0.4	5.3	1.5	1.0	n/t	
Benzo (b) fluoranthene	M	mg/kg	0.1	4.1	7.5	3.6	n/t	0.6	5.2	1.4	1.0	n/t	
Benzo(k)fluoranthene	M	mg/kg	0.1	4.1	7.5	4.0	n/t	0.6	5.2	1.1	1.0	n/t	
Benzo (a) pyrene	M	mg/kg	0.1	4.5	9.1	3.5	n/t	0.5	5.8	1.5	1.1	n/t	
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	3.0	6.2	2.6	n/t	0.3	4.8	1.2	0.8	n/t	
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.8	1.3	0.6	n/t	0.2	1.4	0.3	0.2	n/t	
Benzo(g,h,i)perylene	M	mg/kg	0.1	3.1	5.4	3.6	n/t	0.4	4.9	1.1	0.8	n/t	
Coronene	N	mg/kg	0.1	n/t	n/t	0.9	n/t	n/t	n/t	n/t	0.2	n/t	
Total PAH(16)	M	mg/kg	0.4	89.0	84.9	42.8	n/t	5.4	55.3	19.3	10.6	n/t	
Total PAH(16) + Coronene	N	mg/kg	0.4	n/t	n/t	43.7	n/t	n/t	n/t	n/t	10.8	n/t	

Results Summary

Report No.: 18-18532

ELAB Reference	142980	142987	142989	142990	142991	142994	142998	143001	143003			
Customer Reference												
Sample ID												
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Location	TP18	TP24	TP24	TP25	TP25	TP26	TP27	TP29	TP30			
Sample Depth (m)	2.00	0.30	1.50	0.50	2.00	0.50	1.00	1.50	1.50			
Sampling Date	09/07/2018	05/07/2018	05/07/2018	05/07/2018	05/07/2018	09/07/2018	09/07/2018	10/07/2018	05/07/2018			
Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0	n/t
TPH CWG												
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	2.7	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	9.8	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	70.2	< 1.0	5.0	n/t	5.7	< 1.0	10.9	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	122	5.1	12.6	n/t	12.2	12.5	18.7	5.7	n/t
>C21-C35 Aliphatic	N	mg/kg	1	253	37.0	124	n/t	13.4	115	34.8	124	n/t
>C35-C40 Aliphatic	N	mg/kg	1	84.5	10.5	107	n/t	2.9	27.8	15.2	44.5	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	1.2	< 1.0	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	7.4	< 1.0	< 1.0	n/t	< 1.0	< 1.0	1.6	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	65.9	1.2	5.2	n/t	7.1	2.0	18.6	1.8	n/t
>C16-C21 Aromatic	N	mg/kg	1	121	13.3	17.6	n/t	23.9	21.2	42.7	19.2	n/t
>C21-C35 Aromatic	N	mg/kg	1	255	121	189	n/t	31.8	236	75.7	255	n/t
>C35-C40 Aromatic	N	mg/kg	1	86.5	22.7	160	n/t	10.2	65.6	27.1	109	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	1080	211	620	n/t	107	480	245	559	n/t
OrganoChlorine Pesticides												
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 18-18532

ELAB Reference	143004	143008	143010	143015	143018	143021	143023	143024	143030
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP30	TP31	TP32	TP35	TP36	TP37	TP37	TP37	TP39
Sample Depth (m)	2.50	2.50	0.50	0.40	0.10	0.50	2.00	3.00	1.70
Sampling Date	05/07/2018	05/07/2018	11/07/2018	11/07/2018	09/07/2018	09/07/2018	09/07/2018	09/07/2018	10/07/2018

Determinand	Codes	Units	LOD									
Metals												
Arsenic	M	mg/kg	1	11.3	10.0	n/t	8.8	n/t	^ 8.8	12.5	n/t	13.8
Barium	U	mg/kg	10	160	60.6	n/t	62.0	n/t	84.2	115	n/t	126
Beryllium	U	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	1.1	n/t	1.1
Cadmium	M	mg/kg	0.5	0.6	< 0.5	n/t	< 0.5	n/t	^ < 0.5	< 0.5	n/t	< 0.5
Chromium	M	mg/kg	5	19.3	14.1	n/t	17.6	n/t	^ 18.6	26.7	n/t	28.7
Copper	M	mg/kg	5	58.6	18.5	n/t	16.3	n/t	^ 23.1	23.2	n/t	28.4
Lead	M	mg/kg	5	131	58.5	n/t	54.6	n/t	^ 59.4	77.5	n/t	64.1
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	n/t	< 0.5	n/t	^ < 0.5	< 0.5	n/t	< 0.5
Nickel	M	mg/kg	5	16.7	9.5	n/t	11.0	n/t	^ 11.8	18.1	n/t	23.5
Selenium	M	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	^ < 1.0	< 1.0	n/t	< 1.0
Vanadium	M	mg/kg	5	24.5	15.0	n/t	20.1	n/t	^ 24.6	36.0	n/t	44.1
Zinc	M	mg/kg	5	217	70.5	n/t	61.6	n/t	^ 86.7	106	n/t	95.7
Anions												
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	77	< 40	n/t	< 40	n/t	^ < 40	< 40	n/t	< 40
Water Soluble Nitrate	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Sulphate	M	g/l	0.02	0.52	0.07	n/t	0.06	n/t	^ 0.06	0.48	n/t	0.09
Inorganics												
Complex Cyanide	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t	n/t	n/t	< 1.0	< 1.0
Elemental Sulphur	M	mg/kg	20	245	21	n/t	< 20	n/t	^ < 20	462	n/t	368
Free Cyanide	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t	n/t	n/t	< 1.0	< 1.0
Ammoniacal Nitrogen as N	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	11.1	1.2
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t	< 0.8	n/t	< 0.8	< 0.8	n/t	< 0.8
Total Sulphide	N	mg/kg	2	5	< 2	n/t	< 2	n/t	< 2	< 2	n/t	18
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	n/t	^ < 1.0	< 1.0	< 1.0	< 1.0
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.17	0.09	n/t	0.05	n/t	0.07	0.22	n/t	0.13
Water Soluble Boron	N	mg/kg	0.5	0.7	< 0.5	n/t	< 0.5	n/t	< 0.5	1.0	n/t	0.8
Miscellaneous												
pH	M	pH units	0.1	9.9	8.0	n/t	8.3	n/t	^ 5.2	9.2	n/t	9.6
Total Organic Carbon	N	%	0.01	4.9	0.54	n/t	0.57	n/t	0.99	0.90	n/t	1.8
Phenols												
Total Phenols	N	mg/kg	6	< 6	< 6	n/t	< 6	n/t	< 6	< 6	n/t	6
Polyaromatic hydrocarbons												
Naphthalene	M	mg/kg	0.1	1.3	< 0.1	n/t	< 0.1	n/t	^ 0.2	1.9	n/t	10.9
Acenaphthylene	M	mg/kg	0.1	0.9	< 0.1	n/t	< 0.1	n/t	^ 0.4	0.3	n/t	0.8
Acenaphthene	M	mg/kg	0.1	1.0	< 0.1	n/t	< 0.1	n/t	^ 0.2	2.6	n/t	30.8
Fluorene	M	mg/kg	0.1	1.2	< 0.1	n/t	< 0.1	n/t	^ 0.1	2.2	n/t	24.2
Phenanthrene	M	mg/kg	0.1	6.5	0.4	n/t	0.2	n/t	^ 1.6	8.0	n/t	55.2
Anthracene	M	mg/kg	0.1	2.5	0.1	n/t	< 0.1	n/t	^ 0.5	1.4	n/t	9.5
Fluoranthene	M	mg/kg	0.1	13.0	1.3	n/t	0.6	n/t	^ 4.6	7.5	n/t	36.4
Pyrene	M	mg/kg	0.1	11.6	1.3	n/t	0.6	n/t	^ 4.0	5.3	n/t	24.9
Benzo(a)anthracene	M	mg/kg	0.1	6.4	0.8	n/t	0.4	n/t	^ 2.7	2.5	n/t	7.9
Chrysene	M	mg/kg	0.1	6.7	1.0	n/t	0.5	n/t	^ 3.1	2.6	n/t	9.0
Benzo (b) fluoranthene	M	mg/kg	0.1	5.6	1.0	n/t	0.6	n/t	^ 3.6	2.0	n/t	5.2
Benzo(k)fluoranthene	M	mg/kg	0.1	6.0	1.0	n/t	0.7	n/t	^ 3.1	1.9	n/t	5.5
Benzo (a) pyrene	M	mg/kg	0.1	6.0	1.1	n/t	0.6	n/t	^ 3.7	2.1	n/t	5.1
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	3.9	0.9	n/t	0.6	n/t	^ 3.2	1.6	n/t	3.9
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.0	0.2	n/t	0.1	n/t	^ 0.9	0.4	n/t	1.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	3.6	0.7	n/t	0.6	n/t	^ 3.1	1.4	n/t	5.8
Coronene	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	77.2	9.9	n/t	5.6	n/t	^ 35.0	43.8	n/t	236
Total PAH(16) + Coronene	N	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 18-18532

ELAB Reference	143004	143008	143010	143015	143018	143021	143023	143024	143030			
Customer Reference												
Sample ID												
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Location	TP30	TP31	TP32	TP35	TP36	TP37	TP37	TP37	TP39			
Sample Depth (m)	2.50	2.50	0.50	0.40	0.10	0.50	2.00	3.00	1.70			
Sampling Date	05/07/2018	05/07/2018	11/07/2018	11/07/2018	09/07/2018	09/07/2018	09/07/2018	09/07/2018	10/07/2018			
Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t	^ < 10.0	< 10.0	n/t	< 10.0
TPH CWG												
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	3.5	n/t	101
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	6.5	n/t	132
>C12-C16 Aliphatic	N	mg/kg	1	3.6	< 1.0	n/t	< 1.0	n/t	3.3	13.5	n/t	181
>C16-C21 Aliphatic	N	mg/kg	1	18.6	< 1.0	n/t	< 1.0	n/t	17.7	16.3	n/t	286
>C21-C35 Aliphatic	N	mg/kg	1	96.8	6.9	n/t	9.0	n/t	104	73.7	n/t	630
>C35-C40 Aliphatic	N	mg/kg	1	15.8	2.1	n/t	< 1.0	n/t	23.9	31.1	n/t	309
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	2.2	n/t	83.3
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	6.2	n/t	144
>C12-C16 Aromatic	N	mg/kg	1	6.0	< 1.0	n/t	< 1.0	n/t	3.0	19.9	n/t	336
>C16-C21 Aromatic	N	mg/kg	1	32.3	< 1.0	n/t	2.0	n/t	21.7	29.9	n/t	663
>C21-C35 Aromatic	N	mg/kg	1	150	14.6	n/t	21.5	n/t	174	107	n/t	1170
>C35-C40 Aromatic	N	mg/kg	1	22.1	3.6	n/t	3.8	n/t	45.6	45.9	n/t	499
Total (>C5-C40) Ali/Aro	N	mg/kg	1	345	27.2	n/t	36.3	n/t	394	356	n/t	4540
OrganoChlorine Pesticides												
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	n/t

Results Summary

Report No.: 18-18532

				ELAB Reference	143032	143034	143038	143040	143043	143046	143048	143049	143050
				Customer Reference									
				Sample ID									
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP40	TP41	TP43	TP43	TP45	TP46	TP46	TP46	TP47
				Sample Depth (m)	1.00	1.50	0.50	1.90	0.10	0.30	1.50	3.00	0.05
				Sampling Date	09/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	09/07/2018	09/07/2018	09/07/2018	10/07/2018
Determinand	Codes	Units	LOD										
Metals													
Arsenic	M	mg/kg	1	17.6	n/t	15.9	14.9	n/t	17.8	n/t	18.8	n/t	
Barium	U	mg/kg	10	284	n/t	156	115	n/t	118	n/t	202	n/t	
Beryllium	U	mg/kg	1	2.8	n/t	1.2	1.1	n/t	1.2	n/t	1.3	n/t	
Cadmium	M	mg/kg	0.5	< 0.5	n/t	0.6	< 0.5	n/t	< 0.5	n/t	< 0.5	n/t	
Chromium	M	mg/kg	5	35.7	n/t	33.1	34.0	n/t	29.8	n/t	32.7	n/t	
Copper	M	mg/kg	5	28.3	n/t	42.7	32.7	n/t	23.6	n/t	65.4	n/t	
Lead	M	mg/kg	5	40.3	n/t	249	103	n/t	44.9	n/t	184	n/t	
Water soluble magnesium	N	g/l	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	
Mercury	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5	n/t	< 0.5	n/t	0.6	n/t	
Nickel	M	mg/kg	5	32.5	n/t	24.5	26.0	n/t	19.3	n/t	25.8	n/t	
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t	
Vanadium	M	mg/kg	5	45.6	n/t	50.1	49.4	n/t	36.6	n/t	41.8	n/t	
Zinc	M	mg/kg	5	103	n/t	278	142	n/t	97.0	n/t	185	n/t	
Anions													
Water Soluble Chloride	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	< 40	n/t	< 40	< 40	n/t	< 40	n/t	< 40	n/t	n/t
Water Soluble Nitrate	M	mg/l	20	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Sulphate	M	g/l	0.02	0.14	n/t	0.04	0.22	n/t	0.03	n/t	0.49	n/t	
Inorganics													
Complex Cyanide	N	mg/kg	1	n/t	1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Elemental Sulphur	M	mg/kg	20	176	n/t	< 20	898	n/t	< 20	n/t	302	n/t	
Free Cyanide	N	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Ammoniacal Nitrogen as N	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	1.2	n/t	n/t	n/t
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	< 0.8	n/t	< 0.8	n/t	< 0.8	n/t	n/t
Total Sulphide	N	mg/kg	2	< 2	n/t	< 2	120	n/t	< 2	n/t	< 2	n/t	n/t
Total Cyanide	M	mg/kg	1	< 1.0	1.0	< 1.0	< 1.0	n/t	< 1.0	n/t	1.2	n/t	n/t
Total Sulphur	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.15	n/t	0.08	0.11	n/t	0.09	n/t	0.21	n/t	n/t
Water Soluble Boron	N	mg/kg	0.5	2.0	n/t	< 0.5	< 0.5	n/t	< 0.5	n/t	2.9	n/t	n/t
Miscellaneous													
pH	M	pH units	0.1	8.7	n/t	8.1	8.6	n/t	8.0	n/t	8.3	n/t	n/t
Total Organic Carbon	N	%	0.01	0.74	n/t	1.5	1.3	n/t	0.93	n/t	1.9	n/t	n/t
Phenols													
Total Phenols	N	mg/kg	6	< 6	n/t	< 6	< 6	n/t	< 6	n/t	< 6	n/t	n/t
Polyaromatic hydrocarbons													
Naphthalene	M	mg/kg	0.1	1.1	n/t	0.4	< 0.1	n/t	< 0.1	n/t	0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	0.2	n/t	0.4	0.2	n/t	0.2	n/t	0.2	n/t	n/t
Acenaphthene	M	mg/kg	0.1	1.4	n/t	0.4	0.4	n/t	0.1	n/t	0.4	n/t	n/t
Fluorene	M	mg/kg	0.1	1.3	n/t	0.4	0.6	n/t	0.1	n/t	0.5	n/t	n/t
Phenanthrene	M	mg/kg	0.1	8.1	n/t	3.0	1.1	n/t	2.5	n/t	3.3	n/t	n/t
Anthracene	M	mg/kg	0.1	2.4	n/t	0.9	0.4	n/t	0.8	n/t	1.0	n/t	n/t
Fluoranthene	M	mg/kg	0.1	14.3	n/t	9.5	5.9	n/t	5.5	n/t	5.7	n/t	n/t
Pyrene	M	mg/kg	0.1	12.1	n/t	7.9	4.5	n/t	4.5	n/t	4.7	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	6.5	n/t	4.5	2.9	n/t	2.6	n/t	2.4	n/t	n/t
Chrysene	M	mg/kg	0.1	6.8	n/t	5.2	2.9	n/t	2.9	n/t	2.6	n/t	n/t
Benzo (b) fluoranthene	M	mg/kg	0.1	7.0	n/t	5.4	2.5	n/t	2.9	n/t	2.3	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	7.2	n/t	5.2	2.4	n/t	2.8	n/t	2.4	n/t	n/t
Benzo (a) pyrene	M	mg/kg	0.1	6.4	n/t	5.1	2.4	n/t	2.7	n/t	2.3	n/t	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	4.4	n/t	3.8	1.8	n/t	1.8	n/t	1.5	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.1	n/t	1.0	0.5	n/t	0.4	n/t	0.3	n/t	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	4.6	n/t	3.5	1.4	n/t	2.0	n/t	1.7	n/t	n/t
Coronene	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	85.1	n/t	56.4	30.0	n/t	31.8	n/t	31.1	n/t	n/t
Total PAH(16) + Coronene	N	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 18-18532

ELAB Reference	143032	143034	143038	143040	143043	143046	143048	143049	143050			
Customer Reference												
Sample ID												
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Location	TP40	TP41	TP43	TP43	TP45	TP46	TP46	TP46	TP47			
Sample Depth (m)	1.00	1.50	0.50	1.90	0.10	0.30	1.50	3.00	0.05			
Sampling Date	09/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	09/07/2018	09/07/2018	09/07/2018	10/07/2018			
Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0	n/t	< 10.0	n/t	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0	n/t	< 10.0	n/t	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0	n/t	< 10.0	n/t	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0	n/t	< 10.0	n/t	< 10.0	n/t
TPH CWG												
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	2.2	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	5.6	n/t	2.6	2.8	n/t	1.2	n/t	2.8	n/t
>C21-C35 Aliphatic	N	mg/kg	1	26.6	n/t	17.3	40.1	n/t	19.2	n/t	15.6	n/t
>C35-C40 Aliphatic	N	mg/kg	1	7.5	n/t	5.6	3.8	n/t	8.1	n/t	4.5	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01	n/t	< 0.01	n/t	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	9.6	n/t	< 1.0	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	39.2	n/t	7.1	3.8	n/t	2.9	n/t	5.6	n/t
>C21-C35 Aromatic	N	mg/kg	1	200	n/t	44.0	38.1	n/t	47.6	n/t	24.6	n/t
>C35-C40 Aromatic	N	mg/kg	1	21.8	n/t	8.6	3.3	n/t	14.2	n/t	4.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	312	n/t	85.2	91.9	n/t	93.2	n/t	57.1	n/t
OrganoChlorine Pesticides												
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10	n/t	n/t	n/t	< 10

Results Summary

Report No.: 18-18532

ELAB Reference	143053	143055	143057	143058	143059	143060	143063	143102	143103
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP47	TP48	TP48	TP49	TP49	TP49	TP50	HP07A	HP07B
Sample Depth (m)	2.70	1.50	2.50	0.40	1.50	2.50	1.20	0.05	0.10
Sampling Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	12/07/2018	12/07/2018

Determinand	Codes	Units	LOD									
Metals												
Arsenic	M	mg/kg	1	12.5	n/t	n/t	17.5	n/t	15.5	12.3	24.2	8.1
Barium	U	mg/kg	10	112	n/t	n/t	99.9	n/t	243	127	18.2	36.5
Beryllium	U	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	1.9	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	n/t	n/t	< 0.5	n/t	5.5	0.6	< 0.5	< 0.5
Chromium	M	mg/kg	5	22.2	n/t	n/t	26.3	n/t	30.9	25.6	23.5	10.7
Copper	M	mg/kg	5	24.2	n/t	n/t	27.1	n/t	341	34.5	11.5	7.1
Lead	M	mg/kg	5	86.0	n/t	n/t	94.7	n/t	474	94.4	32.9	19.4
Water soluble magnesium	N	g/l	0.01	n/t	< 0.01	< 0.01	n/t	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	n/t	n/t	< 0.5	n/t	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	18.5	n/t	n/t	20.0	n/t	32.3	19.6	6.2	15.7
Selenium	M	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	< 1.0	< 1.0	2.7	< 1.0
Vanadium	M	mg/kg	5	28.0	n/t	n/t	34.6	n/t	40.6	36.2	39.9	14.8
Zinc	M	mg/kg	5	137	n/t	n/t	103	n/t	546	126	18.4	56.5
Anions												
Water Soluble Chloride	M	mg/l	20	n/t	< 20	< 20	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Chloride	M	mg/kg	40	< 40	n/t	n/t	< 40	n/t	< 40	< 40	78	61
Water Soluble Nitrate	M	mg/l	20	n/t	< 20	< 20	n/t	n/t	n/t	n/t	n/t	n/t
Water Soluble Sulphate	M	g/l	0.02	0.21	0.08	0.08	0.13	n/t	0.17	0.08	0.07	0.73
Inorganics												
Complex Cyanide	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	1.7	1.6
Elemental Sulphur	M	mg/kg	20	1270	n/t	n/t	< 20	n/t	193	255	< 20	61
Free Cyanide	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	< 1.0	< 1.0
Ammoniacal Nitrogen as N	N	mg/kg	0.1	n/t	n/t	n/t	n/t	1.2	n/t	n/t	14.3	7.7
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t	< 0.8	n/t	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	130	n/t	n/t	< 2	n/t	14	7	< 2	< 2
Total Cyanide	M	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	1.4	< 1.0	1.7	1.6
Total Sulphur	N	%	0.01	n/t	0.08	0.02	n/t	n/t	n/t	n/t	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.12	0.09	0.09	0.13	n/t	0.12	0.10	0.46	0.32
Water Soluble Boron	N	mg/kg	0.5	0.8	n/t	n/t	< 0.5	n/t	1.8	0.9	2.0	2.2
Miscellaneous												
pH	M	pH units	0.1	8.3	7.7	7.1	8.7	n/t	8.4	8.1	3.7	5.0
Total Organic Carbon	N	%	0.01	1.1	n/t	n/t	1.5	n/t	2.5	1.1	17	7.3
Phenols												
Total Phenols	N	mg/kg	6	< 6	n/t	n/t	< 6	n/t	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons												
Naphthalene	M	mg/kg	0.1	0.1	n/t	n/t	< 0.1	n/t	4.4	0.3	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	0.7	n/t	n/t	0.3	n/t	2.7	0.2	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	1.3	n/t	n/t	< 0.1	n/t	25.5	0.3	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.6	n/t	n/t	0.2	n/t	33.8	0.3	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	2.2	n/t	n/t	2.0	n/t	350	1.9	< 0.1	0.2
Anthracene	M	mg/kg	0.1	0.8	n/t	n/t	0.5	n/t	116	0.5	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	9.6	n/t	n/t	3.9	n/t	403	4.4	0.1	0.3
Pyrene	M	mg/kg	0.1	9.2	n/t	n/t	3.4	n/t	324	3.9	0.2	0.3
Benzo(a)anthracene	M	mg/kg	0.1	6.2	n/t	n/t	1.9	n/t	151	2.2	< 0.1	0.4
Chrysene	M	mg/kg	0.1	7.3	n/t	n/t	2.2	n/t	153	2.4	0.1	0.2
Benzo (b) fluoranthene	M	mg/kg	0.1	9.9	n/t	n/t	2.3	n/t	124	2.5	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	9.0	n/t	n/t	2.4	n/t	113	2.4	< 0.1	< 0.1
Benzo (a) pyrene	M	mg/kg	0.1	11.1	n/t	n/t	2.2	n/t	123	2.6	0.2	0.3
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	7.6	n/t	n/t	1.6	n/t	79.1	1.7	1.4	0.7
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.8	n/t	n/t	0.4	n/t	18.8	0.4	0.4	0.2
Benzo[g,h,i]perylene	M	mg/kg	0.1	7.9	n/t	n/t	1.8	n/t	79.1	2.2	2.8	1.2
Coronene	N	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	85.2	n/t	n/t	25.1	n/t	2100	28.1	5.3	3.8
Total PAH(16) + Coronene	N	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 18-18532

ELAB Reference	143053	143055	143057	143058	143059	143060	143063	143102	143103			
Customer Reference												
Sample ID												
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Location	TP47	TP48	TP48	TP49	TP49	TP49	TP50	HP07A	HP07B			
Sample Depth (m)	2.70	1.50	2.50	0.40	1.50	2.50	1.20	0.05	0.10			
Sampling Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	12/07/2018	12/07/2018			
Determinand	Codes	Units	LOD									
BTEX												
Benzene	M	ug/kg	10	< 10.0	n/t	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	n/t	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	n/t	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	n/t	n/t	< 10.0	n/t	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG												
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	1.8	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	3.2	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	2.2	n/t	n/t	< 1.0	n/t	26.2	2.1	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	14.9	n/t	n/t	< 1.0	n/t	108	5.4	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	330	n/t	n/t	14.5	n/t	579	19.4	2.8	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	78.8	n/t	n/t	5.9	n/t	229	5.6	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0	n/t	5.1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	7.5	n/t	n/t	< 1.0	n/t	70.3	2.2	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	35.7	n/t	n/t	2.7	n/t	360	10.4	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	611	n/t	n/t	38.2	n/t	1070	49.6	< 1.0	4.2
>C35-C40 Aromatic	N	mg/kg	1	193	n/t	n/t	9.9	n/t	268	9.5	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	1270	n/t	n/t	71.3	n/t	2720	104	2.8	4.2
OrganoChlorine Pesticides												
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

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Report No.: 18-18532

ELAB Reference	142892	142908	142927	142929	142979
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS02	WS05	WS09	WS09	TP18
Sample Depth (m)	2.70	3.50	1.50	3.50	1.00
Sampling Date	10/07/2018	05/07/2018	05/07/2018	05/07/2018	09/07/2018

Determinand	Codes	Units	LOD					
VOC								
Heptane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
cis-1,2-dichloroethene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,2,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-dibromoethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	^ < 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-cymene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	< 10.0	48.2	18.0	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
VOC TIC								
Various	N	ug/kg	10	None Detected	None Detected	Y	None Detected	None Detected
Naphthalene, 1-methyl-	N	ug/kg	10	-	-	< 10	-	-

Results Summary

Report No.: 18-18532

ELAB Reference	142989	142998	143001	143004	143008
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP24	TP27	TP29	TP30	TP31
Sample Depth (m)	1.50	1.00	1.50	2.50	2.50
Sampling Date	05/07/2018	09/07/2018	10/07/2018	05/07/2018	05/07/2018

Determinand	Codes	Units	LOD					
VOC								
Heptane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
cis-1,2-dichloroethene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,2,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-dibromoethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-cymene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	48.2	< 10.0	< 10.0	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
VOC TIC								
Various	N	ug/kg	10	None Detected	None Detected	None Detected	Y	None Detected
Naphthalene, 1-methyl-	N	ug/kg	10	-	-	-	< 10	-

Results Summary

Report No.: 18-18532

ELAB Reference	143016	143023	143030	143032	143040
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP35	TP37	TP39	TP40	TP43
Sample Depth (m)	1.30	2.00	1.70	1.00	1.90
Sampling Date	11/07/2018	09/07/2018	10/07/2018	09/07/2018	11/07/2018

Determinand	Codes	Units	LOD					
VOC								
Heptane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
cis-1,2-dichloroethene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,2,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-dibromoethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
o-cymene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	193	< 10.0	191	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
VOC TIC								
Various	N	ug/kg	10	None Detected	Y	Y	Y	None Detected
Naphthalene, 1-methyl-	N	ug/kg	10	-	31.79	< 10	< 10	-

Results Summary

Report No.: 18-18532

ELAB Reference	142892	142908	142927	142929	142979	142989	142998
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS02	WS05	WS09	WS09	TP18	TP24	TP27
Sample Depth (m)	2.70	3.50	1.50	3.50	1.00	1.50	1.00
Sampling Date	10/07/2018	05/07/2018	05/07/2018	05/07/2018	09/07/2018	05/07/2018	09/07/2018
Determinand	Codes	Units	LOD				
SVOC							
SVOCTIC							
Various	N	mg/kg	0.01	Y	Y	Y	Y
TIC							
(-)-1-Methylcholanthrene	N	mg/kg	0.01	-	-	5.89	-
1(2H)-Naphthalenone, octahydro-, trans-	N	mg/kg	0.01	-	-	0.18	-
1(2H)-Phenanthrene, 3,4,9,10-tetrahydro-7-methoxy-	N	mg/kg	0.01	-	-	-	10.63
1,1'-Binaphthalene	N	mg/kg	0.01	-	-	6.97	8.49
1,1'-Binaphthalene, 2,2'-dibromo-	N	mg/kg	0.01	-	-	-	-
1,1'-Biphenyl, 2,2',3,4-trichloro-	N	mg/kg	0.01	-	0.33	-	-
1,1'-Biphenyl, 2,2',4,4'-tetrachloro-	N	mg/kg	0.01	-	0.69	-	-
1,1'-Biphenyl, 2,2',5,5'-tetramethyl-	N	mg/kg	0.01	-	-	4.1	-
1,1'-Biphenyl, 2,2',6,6'-tetrachloro-	N	mg/kg	0.01	-	0.62	-	-
1,1'-Biphenyl, 2,3,4,6-tetrachloro-	N	mg/kg	0.01	-	0.94	-	-
1,1'-Biphenyl, 2,4,6-trichloro-	N	mg/kg	0.01	-	0.42	-	-
1,1'-Biphenyl, 2-methyl-	N	mg/kg	0.01	-	-	-	1.3
1,1'-Biphenyl, 3,3',4,4'-tetrachloro-	N	mg/kg	0.01	-	1.18	-	-
1,1'-Biphenyl, 3-azido-	N	mg/kg	0.01	-	-	-	-
1,1,4a-Trimethyl-5,6-dimethylenedecahydronaphthalene	N	mg/kg	0.01	-	-	-	5.67
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	N	mg/kg	0.01	-	-	-	-
1,2-Benzenedicarboxylic acid, butyl 2-methylpropyl ester	N	mg/kg	0.01	-	-	-	-
1,2,3,4-Dibenzopyrene	N	mg/kg	0.01	-	-	-	4.09
1,3,6-Octatriene, 3,7-dimethyl-, (Z)-	N	mg/kg	0.01	-	-	-	-
1,3-Cyclohexadiene, 2,6,6-trimethyl-1-(3-methyl-1,3-butadienyl)-	N	mg/kg	0.01	-	-	2.23	-
1,4-Methanonaphthalene, 1,4-dihydro-9-((1-methylethylidene)-	N	mg/kg	0.01	-	-	3.43	-
1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	N	mg/kg	0.01	-	-	-	4.86
1-Methyl-4-ethyl 2-phenylsuccinate	N	mg/kg	0.01	-	-	-	1.11
1-Naphthalenecarboxylic acid, 2-benzoyl-	N	mg/kg	0.01	-	-	6.02	7.22
11H-Benzo[a]fluoren-11-one	N	mg/kg	0.01	-	-	7.25	-
11H-Benzo[a]fluorene	N	mg/kg	0.01	-	-	-	-
11H-Benzo[b]fluorene	N	mg/kg	0.01	-	-	6.42	11.02
1H-Cyclopropa[1]phenanthrene,1a,9b-dihydro-	N	mg/kg	0.01	-	-	4.85	5.35
1H-Inden-1-one, 2-(2,3-dihydro-1H-inden-1-ylidene)-2,3-dihydro-	N	mg/kg	0.01	-	-	-	10.66
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	N	mg/kg	0.01	-	-	-	-
2,6-Dibromo-4-methylaniline	N	mg/kg	0.01	-	-	-	8.23
2,9-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2-benzazonine	N	mg/kg	0.01	-	-	-	7.23
2-(Acetoxymethyl)-3-(methoxycarbonyl)biphenylene	N	mg/kg	0.01	-	-	-	-
2-Cyclopropen-1-one, 2,3-diphenyl-	N	mg/kg	0.01	-	-	-	-
2-Fluorenamine	N	mg/kg	0.01	-	-	-	3.23
2-Hydroxyfluorene	N	mg/kg	0.01	-	-	2.32	-
2-Methyl-5,5-diphenyl-4-(methylthio)imidazole	N	mg/kg	0.01	-	-	-	2.88
2-[2-Quinolinyl]methylene quinucidin-3-ol	N	mg/kg	0.01	-	-	-	-
2-p-Nitrophenyl-oxadiazol-1,3,4-one-5	N	mg/kg	0.01	-	0.48	-	-
3,4,8,9-Dibenzopyrene	N	mg/kg	0.01	-	-	-	-
3,4,9,10-Dibenzopyrene	N	mg/kg	0.01	-	-	-	5.05
3,5,6-Trimethyl-p-quinone, 2-(2,5-dioxotetrahydrofuran-3-yl)thio-	N	mg/kg	0.01	-	1.43	8.48	7.2
3,5-Cyclohexadiene-1,2-dione, 3,4,5,6-tetrachloro-	N	mg/kg	0.01	1.23	-	7.38	4.87
3-(2-Chloro-4-nitro-phenyl)-2-methyl-3H-quinazolin-4-one	N	mg/kg	0.01	-	-	10.17	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	N	mg/kg	0.01	-	-	8.66	14.11
3-Chloro-1-anthraquinonecarboxylic acid	N	mg/kg	0.01	-	-	7.52	-
3-Chloro-N-hydroxy-N-phenyl-benzamide	N	mg/kg	0.01	-	-	6.15	-
3H-Benz[e]indene, 2-methyl-	N	mg/kg	0.01	-	-	-	1.73
4,4,6a,6b,8a,11,12,14b-Octamethyl-1,4,4a,5,6,6a,6b,7,8,8a,9,10,11,12,12a,14,14a,14b-octadecahydro-2H	N	mg/kg	0.01	-	-	-	-
4,5-Isoxazolidone, 3-methyl-, 4-[(2-methylphenyl)hydrazone]	N	mg/kg	0.01	-	0.1	-	-
4-(2-Chlorophenyl)-3-morpholin-4-yl-1H-pyrrole-2-carboxylic acid, methyl ester	N	mg/kg	0.01	-	-	-	0.39
4-Methoxy-5-[4-methoxyphenoxy]-2-nitroaniline	N	mg/kg	0.01	-	-	2.04	-
4-Nitro-4'-chlorodiphenylsulfonide	N	mg/kg	0.01	-	0.72	-	-
4H-Cyclopenta[def]phenanthrene	N	mg/kg	0.01	-	-	16.66	15.83
5H-Indeno[1,2-b]pyridine	N	mg/kg	0.01	-	-	6.62	4.8
7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahydro-3H-naphthalen-2-one	N	mg/kg	0.01	7.74	-	-	-
9,10-Anthracenedione	N	mg/kg	0.01	-	-	-	3.94
9,10-Bis(bromomethyl)anthracene	N	mg/kg	0.01	-	-	5.08	-
9,10-Dimethylanthracene	N	mg/kg	0.01	-	-	7.62	-
9-Anthracenecarbonitrile	N	mg/kg	0.01	-	-	-	-
9-Cycloheptatrienyldiene-9,10-dihydro-10-oxoanthracene	N	mg/kg	0.01	-	-	1.48	-
9H-Fluoren-9-ol	N	mg/kg	0.01	-	-	-	1.23
9H-Fluorene, 1-methyl-	N	mg/kg	0.01	-	-	-	-
9H-Fluorene, 2-methyl-	N	mg/kg	0.01	-	-	-	1.72
Ajmaline	N	mg/kg	0.01	-	-	-	-
Anthracene, 1,4-dimethyl-	N	mg/kg	0.01	-	-	-	6.33
Anthracene, 1-methyl-	N	mg/kg	0.01	-	-	-	4.28
Anthracene, 2-methyl-	N	mg/kg	0.01	-	-	11.81	-
Antra-9,10-quinone, 1-(3-hydroxy-3-phenyl-1-triazenyl)-	N	mg/kg	0.01	-	0.99	-	-
Azulene	N	mg/kg	0.01	-	-	0.45	-
Azulene, 4,6,8-trimethyl-	N	mg/kg	0.01	-	-	2.33	0.42
Benz(A)anthracene-7,12-dione	N	mg/kg	0.01	-	-	-	12.02
Benz(a)anthracene, 7-methyl-	N	mg/kg	0.01	-	-	-	-
Benz[e]acephenanthrylene	N	mg/kg	0.01	-	-	9.73	-
Benz[j]aceanthrylene, 3-methyl-	N	mg/kg	0.01	-	-	8.23	-
Benzenamine, N-[4-(1-methylethyl)benzylidene]-4-(1-pyrrolylsulfonyl)-	N	mg/kg	0.01	-	-	-	21.84
Benzene, 1,1'-methylenebis[2-methyl-	N	mg/kg	0.01	-	-	-	-
Benzene, 1,2,3,4-tetramethyl-	N	mg/kg	0.01	-	-	-	-
Benzene, 1,2-dimethyl-4-(phenylmethyl)-	N	mg/kg	0.01	-	-	-	-
Benzene, 1,3-dimethyl-	N	mg/kg	0.01	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl-	N	mg/kg	0.01	-	-	-	-
Benzene, 1-ethynyl-4-methyl-	N	mg/kg	0.01	-	-	-	0.32
Benzene, 1-methyl-4-(1-methylethyl)-	N	mg/kg	0.01	-	-	-	-
Benzenesulfonamide, 4-(2-hydroxy-5-nitrobenzylideneamino)-	N	mg/kg	0.01	-	-	-	-
Benzo[a]pyrene, 4,5-dihydro-	N	mg/kg	0.01	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	N	mg/kg	0.01	-	-	6.88	6.58
Benzo[b]naphtho[2,3-d]furan	N	mg/kg	0.01	-	-	-	5.7

Results Summary
Report No.: 18-18532

ELAB Reference	142892	142908	142927	142929	142979	142989	142998
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS02	WS05	WS09	WS09	TP18	TP24	TP27
Sample Depth (m)	2.70	3.50	1.50	3.50	1.00	1.50	1.00
Sampling Date	10/07/2018	05/07/2018	05/07/2018	05/07/2018	09/07/2018	05/07/2018	09/07/2018

Determinand	Codes	Units	LOD						
SVOC									
Benzo[b]naphtho[2,3-d]thiophene	N	mg/kg	0.01	-	-	-	-	-	-
Benzo[b]triphenylene	N	mg/kg	0.01	-	-	10.15	-	9.33	-
Benzo[e]pyrene	N	mg/kg	0.01	-	-	12.56	24.91	17.88	-
Benzo[g]pteridine-10(2H)-acetaldehyde, 3,4-dihydro-7,8-dimethyl-2,4-dioxo-	N	mg/kg	0.01	-	-	-	-	3.93	-
Benzo[k]xanthene	N	mg/kg	0.01	-	-	-	4.03	-	-
Benzocycloheptatriene	N	mg/kg	0.01	-	-	-	-	-	-
Benzonitrile, 2-(2-hydroxy-3,5-dichlorobenzylidenediamino)-	N	mg/kg	0.01	-	-	-	-	-	-
Biphenylene	N	mg/kg	0.01	-	-	-	-	-	-
Caprolactam	N	mg/kg	0.01	-	-	-	-	-	0.44
Chrysene, 1-methyl-	N	mg/kg	0.01	-	-	-	-	-	-
Chrysene, 2-methyl-	N	mg/kg	0.01	-	-	6.41	3.97	-	-
Chrysene, 4-methyl-	N	mg/kg	0.01	-	-	-	4.49	-	-
Chrysene, 5-ethyl-	N	mg/kg	0.01	-	-	-	-	10.19	-
Chrysene, 6-methyl-	N	mg/kg	0.01	-	-	-	6.55	7.82	-
Copper 8-hydroxyquinolate	N	mg/kg	0.01	-	-	-	-	-	-
Cyclododecylododecene, 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-octadeca-	N	mg/kg	0.01	-	-	-	-	-	-
Cyclohexane, hexaethylidene-	N	mg/kg	0.01	-	-	9.04	-	-	-
Cyclohexane-1,3-dione, 2-allylaminoethylene-5,5-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Cyclopenta[cd]pyrene, 3,4-dihydro-	N	mg/kg	0.01	-	-	-	-	17.07	-
Cyclopenta[def]phenanthrene	N	mg/kg	0.01	-	-	-	-	7.93	-
Demecolcine	N	mg/kg	0.01	-	-	-	1.78	-	-
Dibenz[a,e]aceanthrylene	N	mg/kg	0.01	-	-	-	-	-	10.13
Dibenz[a,h]anthracene, 5,6-dihydro-	N	mg/kg	0.01	-	-	-	-	7.63	-
Dibenz[a,e]cyclooctene	N	mg/kg	0.01	-	-	-	-	-	-
Dibenzo[b,e]7,8-diazabicyclo[2,2,2]octa-2,5-diene	N	mg/kg	0.01	-	-	12.68	-	-	-
Dibenzofuran, 4-methyl-	N	mg/kg	0.01	-	-	-	-	-	-
Dibenzothiophene	N	mg/kg	0.01	-	-	2.54	4.83	3.27	-
Dibenzothiophene, 4-methyl-	N	mg/kg	0.01	-	-	-	-	-	-
Dichloroacetaldehyde	N	mg/kg	0.01	-	-	-	-	-	0.03
Diethyl 1-(8-azido-1-naphthyl)-1H-1,2,3-triazole-4,5-dicarboxylate	N	mg/kg	0.01	-	0.35	-	-	-	-
Diethyl Phthalate	N	mg/kg	0.01	-	-	-	-	-	0.19
Ethane, 1,1,2,2-tetrachloro-	N	mg/kg	0.01	-	-	-	-	-	3.77
Fluoranthene, 2-methyl-	N	mg/kg	0.01	-	-	-	17.31	20.15	-
Heneicosane	N	mg/kg	0.01	-	-	-	-	-	-
Heptacosane, 1-chloro-	N	mg/kg	0.01	2.7	-	-	-	-	-
Heptadecane, 2,6-dimethyl-	N	mg/kg	0.01	-	-	-	-	2.11	-
Hexadecane	N	mg/kg	0.01	-	-	-	-	-	-
Indene	N	mg/kg	0.01	-	-	-	0.39	-	-
Indeno[1,2,3-cd]fluoranthene	N	mg/kg	0.01	-	-	-	8.41	-	-
Indeno[1,2,3-cd]pyrene	N	mg/kg	0.01	-	-	-	-	31.71	-
Indeno[2,1-a]indene, 5,10-dihydro-	N	mg/kg	0.01	-	-	-	-	-	-
N-(4-Methoxyphenyl)-2-hydroxyiminoacetamide	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S-cis)-	N	mg/kg	0.01	-	-	-	0.74	-	-
Naphthalene, 2,1-dihydro-1-phenyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,3-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,4-dimethyl-	N	mg/kg	0.01	-	-	-	-	0.39	-
Naphthalene, 1,5-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,6-dimethyl-	N	mg/kg	0.01	-	-	0.39	4.78	0.16	-
Naphthalene, 1,7-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 1,8-dimethyl-	N	mg/kg	0.01	-	-	0.83	-	-	-
Naphthalene, 1-methyl-	N	mg/kg	0.01	-	-	0.59	-	-	-
Naphthalene, 2,3,6-trimethyl-	N	mg/kg	0.01	-	-	-	4.03	1.15	-
Naphthalene, 2,6-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	N	mg/kg	0.01	-	-	-	1.74	-	-
Naphthalene, 2-ethenyl-	N	mg/kg	0.01	-	-	0.15	-	-	-
Naphthalene, 2-methyl-	N	mg/kg	0.01	-	-	0.25	1.48	-	-
Naphthalene, 2-phenyl-	N	mg/kg	0.01	-	-	-	4.33	-	-
Naphtho[1,2-a]anthracene	N	mg/kg	0.01	-	-	-	-	7.37	-
Naphtho[2,1-b]furan, 1,2-dimethyl-	N	mg/kg	0.01	-	-	-	-	1.43	-
Nonadecane	N	mg/kg	0.01	-	-	-	-	-	-
Nonane, 2,6-dimethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Pentadecane	N	mg/kg	0.01	-	-	-	-	-	-
Pentadecane, 2,6,10,14-tetramethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Perimidine, 2-ethyl-	N	mg/kg	0.01	-	-	-	-	-	-
Perylene	N	mg/kg	0.01	-	-	-	-	-	-
Phenanthrene, 1,7-dimethyl-	N	mg/kg	0.01	-	-	-	-	6.84	-
Phenanthrene, 1-methyl-	N	mg/kg	0.01	-	-	-	3.94	-	-
Phenanthrene, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-	-
Phenanthrene, 4,5-dimethyl-	N	mg/kg	0.01	-	-	-	-	3.27	-
Phenanthro[1,2-b]furan-10,11-dione, 6,7,8,9-tetrahydro-6-(hydroxymethyl)-1,6-di-	N	mg/kg	0.01	-	-	-	-	6.55	-
Pregnan-20-one, (5.alpha.)-	N	mg/kg	0.01	-	-	-	-	-	7.7
Pyrene	N	mg/kg	0.01	-	-	-	-	-	6.53
Pyrene, 1,3-dimethyl-	N	mg/kg	0.01	-	-	-	14.99	16.88	-
Pyrene, 1-methyl-	N	mg/kg	0.01	-	-	8.6	9.15	9.54	-
Pyrene, 4-methyl-	N	mg/kg	0.01	-	-	-	9.54	-	-
Quinoxaline, 6-(3-nitrobenzylidenediamino)-	N	mg/kg	0.01	-	-	-	9.97	-	-
Spiro[benzofuran-2(3H),2-oxiran]-3-one, 6-methoxy-3'-phenyl-	N	mg/kg	0.01	-	-	-	-	6.47	-
Stigmasterol, 22,23-dihydro-	N	mg/kg	0.01	5.64	-	-	-	-	-
Tetradecane	N	mg/kg	0.01	-	-	-	-	0.16	-
Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octaene	N	mg/kg	0.01	-	-	-	-	-	-
Triphenylene	N	mg/kg	0.01	-	-	19.95	20.97	40.48	12.03
Tungsten, pentacarbonyl(pyridazine-N1)-, (OC-6-22)-	N	mg/kg	0.01	-	-	-	7.15	-	-
[1,1'-Biphenyl]-4-carboxaldehyde	N	mg/kg	0.01	-	-	-	-	1.46	-
[14]Annulene, 1,6,8,13-bis(methano)-, syn	N	mg/kg	0.01	-	-	-	-	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysulfimine	N	mg/kg	0.01	-	-	-	-	6.9	-

Results Summary

Report No.: 18-18532

ELAB Reference	143001	143004	143008	143016	143023	143030	143032	143040
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP29	TP30	TP31	TP35	TP37	TP39	TP40	TP43
Sample Depth (m)	1.50	2.50	2.50	1.30	2.00	1.70	1.00	1.90
Sampling Date	10/07/2018	05/07/2018	05/07/2018	11/07/2018	09/07/2018	10/07/2018	09/07/2018	11/07/2018
Determinand	Codes	Units	LOD					
SVOC								
SVOCTIC								
Various	N	mg/kg	0.01	Y	Y	Y	Y	Y
TIC								
(-)1-Methylcholanthrene	N	mg/kg	0.01	-	-	-	-	-
1(2H)-Naphthalenone, octahydro-, trans-	N	mg/kg	0.01	-	-	-	-	-
1(2H)-Phenanthrene, 3,4,9,10-tetrahydro-7-methoxy-	N	mg/kg	0.01	-	-	-	-	3.82
1,1'-Binaphthalene	N	mg/kg	0.01	-	-	-	-	-
1,1'-Binaphthalene, 2,2'-dibromo-	N	mg/kg	0.01	-	-	-	4.33	-
1,1'-Biphenyl, 2,2',3,4'-trichloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 2,2',4,4'-tetrachloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 2,2',5,5'-tetramethyl-	N	mg/kg	0.01	-	-	-	0.47	-
1,1'-Biphenyl, 2,2',6,6'-tetrachloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 2,3,4,6-tetrachloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 2,4,6-trichloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 3,3',4,4'-tetrachloro-	N	mg/kg	0.01	-	-	-	-	-
1,1'-Biphenyl, 3-azido-	N	mg/kg	0.01	-	-	-	4.35	-
1,1,4a-Trimethyl-5,6-dimethylenedecahydronaphthalene	N	mg/kg	0.01	-	-	-	-	-
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	N	mg/kg	0.01	-	-	-	0.39	-
1,2-Benzenedicarboxylic acid, butyl 2-methylpropyl ester	N	mg/kg	0.01	-	3.29	-	-	-
1,2,3,4-Dibenzopyrene	N	mg/kg	0.01	-	6.52	-	-	-
1,3,6-Octatriene, 3,7-dimethyl-, (Z)-	N	mg/kg	0.01	-	-	-	0.19	-
1,3-Cyclohexadiene, 2,6,6-trimethyl-1-(3-methyl-1,3-butadienyl)-	N	mg/kg	0.01	-	-	-	-	-
1,4-Methanonaphthalene, 1,4-dihydro-9-((1-methylethylidene)-	N	mg/kg	0.01	-	-	-	-	-
1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	N	mg/kg	0.01	-	-	-	-	-
1-Methyl-4-ethyl 2-phenylsuccinate	N	mg/kg	0.01	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	N	mg/kg	0.01	-	-	-	5.26	3.4
11H-Benzo[a]fluoren-11-one	N	mg/kg	0.01	-	-	-	-	-
11H-Benzo[a]fluorene	N	mg/kg	0.01	-	5.29	-	-	4.07
11H-Benzo[b]fluorene	N	mg/kg	0.01	-	-	-	2.69	2.9
1H-Cyclopropa[1]phenanthrene,1a,9b-dihydro-	N	mg/kg	0.01	-	-	-	-	-
1H-Inden-1-one, 2-(2,3-dihydro-1H-inden-1-ylidene)-2,3-dihydro-	N	mg/kg	0.01	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	N	mg/kg	0.01	-	-	-	-	0.39
2,6-Dibromo-4-methylaniline	N	mg/kg	0.01	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2-benzazonine	N	mg/kg	0.01	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)biphenylene	N	mg/kg	0.01	-	7.03	1.56	-	-
2-Cyclopropen-1-one, 2,3-diphenyl-	N	mg/kg	0.01	-	3.23	-	-	-
2-Fluorenamine	N	mg/kg	0.01	-	-	-	-	-
2-Hydroxyfluorene	N	mg/kg	0.01	-	-	-	-	-
2-Methyl-5,5-diphenyl-4-(methylthio)imidazole	N	mg/kg	0.01	-	-	-	-	-
2-[2-Quinolinyl]methylene quinuclidin-3-ol	N	mg/kg	0.01	-	-	0.2	-	-
2-p-Nitrophenyl-oxadiazol-1,3,4-one-5	N	mg/kg	0.01	-	-	-	-	-
3,4:8,9-Dibenzopyrene	N	mg/kg	0.01	-	5.13	-	-	-
3,4:9,10-Dibenzopyrene	N	mg/kg	0.01	-	3.68	-	-	-
3,5,6-Trimethyl-p-quinone, 2-(2,5-dioxotetrahydrofuran-3-yl)thio-	N	mg/kg	0.01	-	7.84	3.56	-	4.21
3,5-Cyclohexadiene-1,2-dione, 3,4,5,6-tetrachloro-	N	mg/kg	0.01	-	-	-	-	2.52
3-(2-Chloro-4-nitro-phenyl)-2-methyl-3H-quinazolin-4-one	N	mg/kg	0.01	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	N	mg/kg	0.01	5.66	-	-	-	-
3-Chloro-1-anthraquinonecarboxylic acid	N	mg/kg	0.01	-	-	-	-	-
3-Chloro-N-hydroxy-N-phenyl-benzamide	N	mg/kg	0.01	-	-	-	-	-
3H-Benz[e]indene, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-
4,4,6a,6b,8a,11,12,14b-Octamethyl-								
1,4,4a,5,6,6a,6b,7,8,8a,9,10,11,12,12a,14,14a,14b-octadecahydro-2H	N	mg/kg	0.01	-	-	2.71	-	-
4,5-Isoxazolidone, 3-methyl-, 4-[(2-methylphenyl)hydrazone]	N	mg/kg	0.01	-	-	-	-	-
4-(2-Chlorophenyl)-3-morpholin-4-yl-1H-pyrrole-2-carboxylic acid, methyl ester	N	mg/kg	0.01	-	-	-	-	-
4-Methoxy-5-[4-methoxyphenoxy]-2-nitroaniline	N	mg/kg	0.01	-	-	-	-	-
4-Nitro-4'-chlorodiphenylsulfonide	N	mg/kg	0.01	-	3.84	-	-	2.03
4H-Cyclopenta[def]phenanthrene	N	mg/kg	0.01	-	-	0.91	-	2.79
5H-Indeno[1,2-b]pyridine	N	mg/kg	0.01	-	-	-	-	1.32
7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahydro-3H-naphthalen-2-one	N	mg/kg	0.01	-	-	-	-	-
9,10-Anthracenedione	N	mg/kg	0.01	1.77	-	-	-	-
9,10-Bis(bromomethyl)anthracene	N	mg/kg	0.01	-	0.46	-	-	-
9,10-Dimethylanthracene	N	mg/kg	0.01	-	-	-	6.63	-
9-Anthracenecarbonitrile	N	mg/kg	0.01	1.97	-	-	-	-
9-Cycloheptatrienyldiene-9,10-dihydro-10-oxoanthracene	N	mg/kg	0.01	-	-	-	-	-
9H-Fluoren-9-ol	N	mg/kg	0.01	-	-	-	3.34	0.52
9H-Fluorene, 1-methyl-	N	mg/kg	0.01	0.4	-	-	-	-
9H-Fluorene, 2-methyl-	N	mg/kg	0.01	0.28	0.6	-	-	-
Ajmaline	N	mg/kg	0.01	-	-	-	-	-
Anthracene, 1,4-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Anthracene, 1-methyl-	N	mg/kg	0.01	-	-	-	2.63	-
Anthracene, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-
Antra-9,10-quinone, 1-(3-hydroxy-3-phenyl-1-triazenyl)-	N	mg/kg	0.01	-	2.34	0.35	-	0.58
Azulene	N	mg/kg	0.01	-	-	-	-	0.83
Azulene, 4,6,8-trimethyl-	N	mg/kg	0.01	0.24	-	-	-	1.17
Benz(A)anthracene-7,12-dione	N	mg/kg	0.01	-	-	-	2.87	-
Benz(a)anthracene, 7-methyl-	N	mg/kg	0.01	3.49	-	-	-	-
Benz[e]acephenanthrylene	N	mg/kg	0.01	-	5.44	-	-	-
Benz[j]aceanthrylene, 3-methyl-	N	mg/kg	0.01	-	-	-	-	-
Benzenamine, N-[4-(1-methylethyl)benzylidene]-4-(1-pyrrolidylsulfonyl)-	N	mg/kg	0.01	10.91	-	-	-	-
Benzene, 1,1'-methylenebis[2-methyl-	N	mg/kg	0.01	0.33	-	-	-	-
Benzene, 1,2,3,4-tetramethyl-	N	mg/kg	0.01	-	-	-	0.39	-
Benzene, 1,2-dimethyl-4-(phenylmethyl)-	N	mg/kg	0.01	-	-	-	2.23	-
Benzene, 1,3-dimethyl-	N	mg/kg	0.01	0.15	0.25	-	-	-
Benzene, 1-ethyl-2,3-dimethyl-	N	mg/kg	0.01	-	-	-	1.18	-
Benzene, 1-ethyl-4-methyl-	N	mg/kg	0.01	-	-	-	-	-
Benzene, 1-methyl-4-(1-methylethyl)-	N	mg/kg	0.01	-	-	-	1.6	-
Benzenesulfonamide, 4-(2-hydroxy-5-nitrobenzylideneamino)-	N	mg/kg	0.01	-	-	4.78	-	-
Benzo[a]pyrene, 4,5-dihydro-	N	mg/kg	0.01	4.85	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	N	mg/kg	0.01	4.18	-	-	-	2.45
Benzo[b]naphtho[2,3-d]furan	N	mg/kg	0.01	-	-	-	-	-

Results Summary

Report No.: 18-18532

ELAB Reference	143001	143004	143008	143016	143023	143030	143032	143040
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP29	TP30	TP31	TP35	TP37	TP39	TP40	TP43
Sample Depth (m)	1.50	2.50	2.50	1.30	2.00	1.70	1.00	1.90
Sampling Date	10/07/2018	05/07/2018	05/07/2018	11/07/2018	09/07/2018	10/07/2018	09/07/2018	11/07/2018
Determinand	Codes	Units	LOD					
SVOC								
Benzo[b]naphtho[2,3-d]thiophene	N	mg/kg	0.01	-	-	-	6.49	-
Benzo[b]triphenylene	N	mg/kg	0.01	2.67	-	-	-	2.35
Benzo[e]pyrene	N	mg/kg	0.01	7.14	-	5.35	-	5.92
Benzo[g]pteridine-10(2H)-acetaldehyde, 3,4-dihydro-7,8-dimethyl-2,4-dioxo-	N	mg/kg	0.01	-	-	-	-	-
Benzo[k]xanthene	N	mg/kg	0.01	-	-	-	-	-
Benzocycloheptatriene	N	mg/kg	0.01	-	-	0.34	-	-
Benzonitrile, 2-(2-hydroxy-3,5-dichlorobenzylideneamino)-	N	mg/kg	0.01	1.21	-	-	-	-
Biphenylene	N	mg/kg	0.01	0.69	-	0.36	-	-
Caprolactam	N	mg/kg	0.01	-	-	0.29	-	0.66
Chrysene, 1-methyl-	N	mg/kg	0.01	11.66	-	-	-	-
Chrysene, 2-methyl-	N	mg/kg	0.01	-	-	2.45	-	-
Chrysene, 4-methyl-	N	mg/kg	0.01	-	-	-	-	3.12
Chrysene, 5-ethyl-	N	mg/kg	0.01	-	-	-	-	-
Chrysene, 6-methyl-	N	mg/kg	0.01	-	-	-	-	-
Copper 8-hydroxyquinolate	N	mg/kg	0.01	-	-	3.21	-	-
Cyclododecacyclododecene, 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-octadeca-	N	mg/kg	0.01	-	4.49	5.5	-	2.67
Cyclohexane, hexaethylidene-	N	mg/kg	0.01	-	-	-	-	-
Cyclohexane-1,3-dione, 2-allylaminoethylene-5,5-dimethyl-	N	mg/kg	0.01	-	-	0.59	-	1.62
Cyclopenta[cd]pyrene, 3,4-dihydro-	N	mg/kg	0.01	-	-	-	-	-
Cyclopenta[def]phenanthrene	N	mg/kg	0.01	-	-	-	-	-
Demecolcine	N	mg/kg	0.01	-	-	-	-	-
Dibenz[a,e]aceanthrylene	N	mg/kg	0.01	-	-	-	-	-
Dibenz[a,h]anthracene, 5,6-dihydro-	N	mg/kg	0.01	-	-	-	-	-
Dibenzo[a,e]cyclooctene	N	mg/kg	0.01	0.58	-	-	-	-
Dibenzo[b,e]7,8-diazabicyclo[2.2.2]octa-2,5-diene	N	mg/kg	0.01	-	-	-	-	4.79
Dibenzofuran, 4-methyl-	N	mg/kg	0.01	0.35	0.28	-	-	-
Dibenzothiophene	N	mg/kg	0.01	0.85	-	-	-	4.71
Dibenzothiophene, 4-methyl-	N	mg/kg	0.01	1.06	-	-	-	0.63
Dichloroacetaldehyde	N	mg/kg	0.01	-	-	-	-	-
Diethyl 1-(8-azido-1-naphthyl)-1H-1,2,3-triazole-4,5-dicarboxylate	N	mg/kg	0.01	-	-	-	-	-
Diethyl Phthalate	N	mg/kg	0.01	-	-	-	-	-
Ethane, 1,1,2,2-tetrachloro-	N	mg/kg	0.01	-	-	0.68	-	-
Fluoranthene, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-
Heneicosane	N	mg/kg	0.01	-	-	5.25	-	-
Heptacosane, 1-chloro-	N	mg/kg	0.01	-	-	-	-	-
Heptadecane, 2,6-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Hexadecane	N	mg/kg	0.01	-	0.58	-	-	-
Indene	N	mg/kg	0.01	-	-	-	-	-
Indeno[1,2,3-cd]fluoranthene	N	mg/kg	0.01	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	N	mg/kg	0.01	-	5.91	-	-	-
Indeno[2,1-a]indene, 5,10-dihydro-	N	mg/kg	0.01	-	-	-	-	0.44
N-(4-Methoxyphenyl)-2-hydroxyimino-acetamide	N	mg/kg	0.01	-	-	0.26	-	-
Naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S-cis)-	N	mg/kg	0.01	-	-	-	-	-
Naphthalene, 2,1-dihydro-1-phenyl-	N	mg/kg	0.01	2.47	-	-	-	-
Naphthalene, 1,3-dimethyl-	N	mg/kg	0.01	-	-	-	2.4	-
Naphthalene, 1,4-dimethyl-	N	mg/kg	0.01	-	-	0.62	-	0.82
Naphthalene, 1,5-dimethyl-	N	mg/kg	0.01	-	-	-	-	0.55
Naphthalene, 1,6,7-trimethyl-	N	mg/kg	0.01	-	-	-	3.14	0.48
Naphthalene, 1,6-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	N	mg/kg	0.01	-	0.82	-	-	-
Naphthalene, 1,8-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Naphthalene, 1-methyl-	N	mg/kg	0.01	-	0.43	-	31.79	1.42
Naphthalene, 2,3,6-trimethyl-	N	mg/kg	0.01	-	-	-	-	0.73
Naphthalene, 2,6-dimethyl-	N	mg/kg	0.01	-	0.36	-	-	-
Naphthalene, 2,7-dimethyl-	N	mg/kg	0.01	-	-	-	1.62	1.35
Naphthalene, 2-ethenyl-	N	mg/kg	0.01	-	-	-	-	-
Naphthalene, 2-methyl-	N	mg/kg	0.01	-	-	-	-	-
Naphthalene, 2-phenyl-	N	mg/kg	0.01	2.1	-	-	-	-
Naphtho[1,2-a]anthracene	N	mg/kg	0.01	-	-	-	-	-
Naphtho[2,1-b]furan, 1,2-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Nonadecane	N	mg/kg	0.01	-	0.07	-	-	-
Nonane, 2,6-dimethyl-	N	mg/kg	0.01	-	-	-	1.41	-
Pentadecane	N	mg/kg	0.01	-	-	0.5	-	-
Pentadecane, 2,6,10,14-tetramethyl-	N	mg/kg	0.01	-	0.69	-	-	-
Perimidine, 2-ethyl-	N	mg/kg	0.01	-	-	-	-	1.04
Perylene	N	mg/kg	0.01	-	-	-	6.39	-
Phenanthrene, 1,7-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Phenanthrene, 1-methyl-	N	mg/kg	0.01	-	-	-	5.76	-
Phenanthrene, 2-methyl-	N	mg/kg	0.01	1.27	-	-	-	-
Phenanthrene, 4,5-dimethyl-	N	mg/kg	0.01	-	-	-	-	-
Phenanthro[1,2-b]furan-10,11-dione, 6,7,8,9-tetrahydro-6-(hydroxymethyl)-1,6-di-	N	mg/kg	0.01	-	-	-	-	-
Pregnan-20-one, (5.alpha.)-	N	mg/kg	0.01	-	-	-	-	-
Pyrene	N	mg/kg	0.01	-	7.05	-	-	-
Pyrene, 1,3-dimethyl-	N	mg/kg	0.01	-	-	-	-	4.2
Pyrene, 1-methyl-	N	mg/kg	0.01	5.55	-	2.71	1.68	3.67
Pyrene, 4-methyl-	N	mg/kg	0.01	-	-	-	-	2.46
Quinoxaline, 6-(3-nitrobenzylideneamino)-	N	mg/kg	0.01	2.18	-	3.18	-	2
Spiro[benzofuran-2(3H),2'-oxiran]-3-one, 6-methoxy-3'-phenyl-	N	mg/kg	0.01	-	-	-	-	-
Stigmasterol, 22,23-dihydro-	N	mg/kg	0.01	-	-	-	-	-
Tetradecane	N	mg/kg	0.01	-	-	0.2	-	-
Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octaene	N	mg/kg	0.01	-	-	0.56	-	-
Triphenylene	N	mg/kg	0.01	17.32	9.44	6.5	8	5.88
Tungsten, pentacarbonyl(pyridazine-N1)-, (OC-6-22)-	N	mg/kg	0.01	-	-	-	-	3.62
[1,1'-Biphenyl]-4-carboxaldehyde	N	mg/kg	0.01	-	-	-	-	-
[14]Annulene, 1,6,8,13-bis(methano)-, syn	N	mg/kg	0.01	-	-	0.87	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysulfimide	N	mg/kg	0.01	-	-	-	-	-

Results Summary

Report No.: 18-18532

ELAB Reference	142893	142896	142901	142907	142915
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS02	WS03	WS04	WS05	WS06
Sample Depth (m)	3.70	0.50	1.50	2.50	4.70
Sampling Date	10/07/2018	09/07/2018	09/07/2018	05/07/2018	10/07/2018

Determinand	Codes	Units	LOD					
Metals								
Arsenic	N	ug/l	5	< 5	6	16	< 5	< 5
Barium	N	ug/l	5	6	8	11	20	16
Beryllium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Boron	N	ug/l	5	65	25	74	27	226
Cadmium	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	N	ug/l	5	10	6	9	< 5	6
Lead	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Mercury	N	ug/l	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1
Nickel	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Selenium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Vanadium	N	ug/l	5	< 5	18	21	< 5	< 5
Zinc	N	ug/l	5	18	10	20	5	8
Anions								
Chloride	N	mg/l	1	3	2	11	1	2
Sulphate	N	mg/l	1	3	10	13	10	20
Inorganics								
Hexavalent chromium	N	ug/l	100	< 100	< 100	< 100	< 100	< 100
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sulphide	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Total Cyanide	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Miscellaneous								
Dissolved organic carbon	N	mg/l	1.5	13.4	7.8	16.1	7.4	12.3
pH	N	pH units	0.1	7.6	7.6	7.8	7.7	7.7
Phenols								
Total Phenols	N	ug/l	6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons								
Naphthalene Leachate GCMS	N	ug/l	0.01	0.12	0.11	0.14	0.16	0.13
Acenaphthylene Leachate GCMS	N	ug/l	0.01	< 0.01	0.06	0.02	0.02	0.02
Acenaphthene Leachate GCMS	N	ug/l	0.01	0.01	0.03	0.03	0.03	0.03
Fluorene Leachate GCMS	N	ug/l	0.01	0.01	0.02	0.01	0.02	0.01
Phenanthrene Leachate GCMS	N	ug/l	0.01	0.04	0.11	0.03	0.04	0.03
Anthracene Leachate GCMS	N	ug/l	0.01	0.01	0.10	0.04	0.02	0.02
Fluoranthene Leachate GCMS	N	ug/l	0.01	0.02	0.37	0.03	0.04	0.02
Pyrene Leachate GCMS	N	ug/l	0.01	0.01	0.33	0.02	0.03	0.01
Benzo (a) anthracene Leachate GCMS	N	ug/l	0.01	< 0.01	0.17	0.03	0.02	0.01
Chrysene Leachate GCMS	N	ug/l	0.01	< 0.01	0.24	0.03	0.02	0.01
Benzo (b) fluoranthene Leachate GCMS	N	ug/l	0.01	0.01	0.21	0.03	0.02	< 0.01
Benzo (k) fluoranthene Leachate GCMS	N	ug/l	0.01	< 0.01	0.24	0.04	0.02	< 0.01
Benzo (a) pyrene Leachate GCMS	N	ug/l	0.01	< 0.01	0.26	0.02	0.01	< 0.01
Indeno (1,2,3-cd) pyrene Leachate GCMS	N	ug/l	0.01	< 0.01	0.15	0.02	0.02	< 0.01
Dibenzo(a,h)anthracene Leachate GCMS	N	ug/l	0.01	< 0.01	0.05	0.01	< 0.01	< 0.01
Benzo(ghi)perylene Leachate GCMS	N	ug/l	0.01	0.02	0.23	0.03	0.02	0.01
Total PAH(16) Leachate GCMS	N	ug/l	0.01	0.31	2.68	0.54	0.50	0.34



Results Summary

Report No.: 18-18532

ELAB Reference	142893	142896	142901	142907	142915
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS02	WS03	WS04	WS05	WS06
Sample Depth (m)	3.70	0.50	1.50	2.50	4.70
Sampling Date	10/07/2018	09/07/2018	09/07/2018	05/07/2018	10/07/2018

Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Results Summary

Report No.: 18-18532

	ELAB Reference	142928	142939	142952	142999	143006	143016		
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Location	WS09	WS12	TP05	TP27	TP31	TP35			
Sample Depth (m)	2.50	1.70	0.90	2.00	0.50	1.30			
Sampling Date	05/07/2018	10/07/2018	06/07/2018	09/07/2018	05/07/2018	11/07/2018			
Determinand	Codes	Units	LOD						
Metals									
Arsenic	N	ug/l	5	5	< 5	< 5	< 5	< 5	6
Barium	N	ug/l	5	18	11	5	23	8	18
Beryllium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Boron	N	ug/l	5	74	40	14	59	8	119
Cadmium	N	ug/l	1	< 1	< 1	< 1	< 1	< 1	< 1
Chromium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Copper	N	ug/l	5	5	7	< 5	< 5	< 5	9
Lead	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Mercury	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Selenium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Vanadium	N	ug/l	5	5	8	< 5	< 5	< 5	< 5
Zinc	N	ug/l	5	9	8	6	< 5	16	15
Anions									
Chloride	N	mg/l	1	1	2	< 1	4	2	2
Sulphate	N	mg/l	1	11	6	4	15	5	16
Inorganics									
Hexavalent chromium	N	ug/l	100	< 100	< 100	< 100	< 100	< 100	< 100
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sulphide	N	mg/l	0.1	0.1	0.1	0.2	0.1	0.2	0.1
Total Cyanide	N	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Miscellaneous									
Dissolved organic carbon	N	mg/l	1.5	7.5	11.7	2.5	8.6	4.6	14.0
pH	N	pH units	0.1	7.9	7.7	6.2	7.9	7.6	7.9
Phenols									
Total Phenols	N	ug/l	6	< 6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons									
Naphthalene Leachate GCMS	N	ug/l	0.01	0.12	1.12	0.13	0.12	0.13	0.12
Acenaphthylene Leachate GCMS	N	ug/l	0.01	< 0.01	0.05	< 0.01	0.01	0.01	0.02
Acenaphthene Leachate GCMS	N	ug/l	0.01	0.02	0.36	0.01	0.03	0.01	0.02
Fluorene Leachate GCMS	N	ug/l	0.01	0.01	0.14	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene Leachate GCMS	N	ug/l	0.01	0.05	0.11	0.03	0.03	0.03	0.04
Anthracene Leachate GCMS	N	ug/l	0.01	0.02	0.14	< 0.01	0.02	0.02	0.02
Fluoranthene Leachate GCMS	N	ug/l	0.01	0.03	0.02	0.03	0.02	0.03	0.11
Pyrene Leachate GCMS	N	ug/l	0.01	0.02	0.02	0.02	0.02	0.02	0.08
Benzo (a) anthracene Leachate GCMS	N	ug/l	0.01	0.01	0.06	< 0.01	0.01	0.02	0.05
Chrysene Leachate GCMS	N	ug/l	0.01	0.01	0.07	< 0.01	< 0.01	0.02	0.08
Benzo (b) fluoranthene Leachate GCMS	N	ug/l	0.01	0.01	0.04	0.01	< 0.01	0.03	0.05
Benzo (k) fluoranthene Leachate GCMS	N	ug/l	0.01	0.01	0.03	0.01	< 0.01	0.02	0.05
Benzo (a) pyrene Leachate GCMS	N	ug/l	0.01	< 0.01	0.02	< 0.01	< 0.01	0.01	0.03
Indeno (1,2,3-cd) pyrene Leachate GCMS	N	ug/l	0.01	0.01	0.01	< 0.01	< 0.01	0.02	0.03
Dibenzo(a,h)anthracene Leachate GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Benzo(ghi)perylene Leachate GCMS	N	ug/l	0.01	0.01	0.01	0.01	0.01	0.03	0.05
Total PAH(16) Leachate GCMS	N	ug/l	0.01	0.36	2.21	0.31	0.33	0.41	0.77

Results Summary

Report No.: 18-18532

ELAB Reference	142928	142939	142952	142999	143006	143016
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS09	WS12	TP05	TP27	TP31	TP35
Sample Depth (m)	2.50	1.70	0.90	2.00	0.50	1.30
Sampling Date	05/07/2018	10/07/2018	06/07/2018	09/07/2018	05/07/2018	11/07/2018

Determinand	Codes	Units	LOD						
BTEX									
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG									
>C5-C6 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Results Summary

Report No.: 18-18532

ELAB Reference	143024	143039	143047	143051	143059
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP37	TP43	TP46	TP47	TP49
Sample Depth (m)	3.00	1.20	0.90	0.50	1.50
Sampling Date	09/07/2018	11/07/2018	09/07/2018	10/07/2018	10/07/2018

Determinand	Codes	Units	LOD					
Metals								
Arsenic	N	ug/l	5	18	< 5	< 5	< 5	< 5
Barium	N	ug/l	5	22	16	9	9	75
Beryllium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Boron	N	ug/l	5	80	54	31	24	67
Cadmium	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	N	ug/l	5	11	6	< 5	< 5	6
Lead	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Mercury	N	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Selenium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Vanadium	N	ug/l	5	87	< 5	< 5	< 5	< 5
Zinc	N	ug/l	5	< 5	8	12	24	9
Anions								
Chloride	N	mg/l	1	2	1	1	1	< 1
Sulphate	N	mg/l	1	34	4	5	5	27
Inorganics								
Hexavalent chromium	N	ug/l	100	< 100	< 100	< 100	< 100	< 100
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sulphide	N	mg/l	0.1	< 0.1	0.1	0.1	0.1	0.1
Total Cyanide	N	ug/l	5	9	< 5	< 5	< 5	< 5
Miscellaneous								
Dissolved organic carbon	N	mg/l	1.5	11.1	5.6	7.8	6.7	7.6
pH	N	pH units	0.1	9.1	7.8	7.8	7.6	7.8
Phenols								
Total Phenols	N	ug/l	6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons								
Naphthalene Leachate GCMS	N	ug/l	0.01	3.97	0.12	0.12	0.11	0.13
Acenaphthylene Leachate GCMS	N	ug/l	0.01	0.26	0.02	0.01	< 0.01	< 0.01
Acenaphthene Leachate GCMS	N	ug/l	0.01	0.51	0.01	< 0.01	< 0.01	0.01
Fluorene Leachate GCMS	N	ug/l	0.01	0.26	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene Leachate GCMS	N	ug/l	0.01	0.37	0.06	0.03	0.03	0.02
Anthracene Leachate GCMS	N	ug/l	0.01	0.61	0.03	0.02	0.01	0.02
Fluoranthene Leachate GCMS	N	ug/l	0.01	0.17	0.10	0.02	0.02	0.01
Pyrene Leachate GCMS	N	ug/l	0.01	0.16	0.08	0.02	0.01	< 0.01
Benzo (a) anthracene Leachate GCMS	N	ug/l	0.01	0.15	0.04	0.02	0.01	< 0.01
Chrysene Leachate GCMS	N	ug/l	0.01	0.12	0.06	0.02	0.01	< 0.01
Benzo (b) fluoranthene Leachate GCMS	N	ug/l	0.01	0.18	0.05	0.03	0.01	< 0.01
Benzo (k) fluoranthene Leachate GCMS	N	ug/l	0.01	0.19	0.04	0.02	< 0.01	< 0.01
Benzo (a) pyrene Leachate GCMS	N	ug/l	0.01	0.23	0.03	0.02	< 0.01	< 0.01
Indeno (1,2,3-cd) pyrene Leachate GCMS	N	ug/l	0.01	0.15	0.03	0.02	< 0.01	< 0.01
Dibenzo(a,h)anthracene Leachate GCMS	N	ug/l	0.01	0.06	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene Leachate GCMS	N	ug/l	0.01	0.19	0.04	0.03	0.02	< 0.01
Total PAH(16) Leachate GCMS	N	ug/l	0.01	7.59	0.74	0.41	0.28	0.23

Results Summary

Report No.: 18-18532

ELAB Reference	143024	143039	143047	143051	143059
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP37	TP43	TP46	TP47	TP49
Sample Depth (m)	3.00	1.20	0.90	0.50	1.50
Sampling Date	09/07/2018	11/07/2018	09/07/2018	10/07/2018	10/07/2018

Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic in Leachate	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic Leachate	N	ug/l	5	18.7	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic Leachate	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic Leachate	N	ug/l	5	18.7	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro Leachate	N	ug/l	5	18.7	< 5.0	< 5.0	< 5.0	< 5.0

Results Summary

Report No.: 18-18532

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
142883	0.10	WS01	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
142885	1.50	WS01	Brown sand, stones	No asbestos detected	n/t	n/t	n/t	n/t
142888	4.50	WS01	Brown sand, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
142892	2.70	WS02	Brown sandy soil, stones, concrete, brick, clinker, chalk,	No asbestos detected	n/t	n/t	n/t	n/t
142895	0.20	WS03	Brown sandy soil, stones, concrete, brick, clinker,	No asbestos detected	n/t	n/t	n/t	n/t
142898	2.50	WS03	Brown sandy soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142900	0.50	WS04	Chalk, stones, tar	No asbestos detected	n/t	n/t	n/t	n/t
142902	2.50	WS04	Brown sandy soil, stones, concrete, clinker, glass	No asbestos detected	n/t	n/t	n/t	n/t
142904	4.50	WS04	Brown sandy soil, stones, concrete, brick, clinker, glass	No asbestos detected	n/t	n/t	n/t	n/t
142906	1.50	WS05	Brown sandy soil, stones, brick, clinker, glass	No asbestos detected	n/t	n/t	n/t	n/t
142909	4.50	WS05	Brown sandy soil, stones, concrete, brick, clinker, glass	No asbestos detected	n/t	n/t	n/t	n/t
142910	0.20	WS06	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
142913	2.70	WS06	Brown sandy soil, stones, concrete, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142917	0.50	WS07	Brown sand, stones	No asbestos detected	n/t	n/t	n/t	n/t
142920	0.30	WS08	Brown sandy soil, stones, concrete, brick, clinker, chalk	No asbestos detected	n/t	n/t	n/t	n/t
142922	2.00	WS08	Brown sandy soil, stones, concrete, brick, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142924	4.50	WS08	Brown soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
142927	1.50	WS09	Brown sandy soil, stones, concrete, brick, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142929	3.50	WS09	Brown sandy soil, stones, concrete, brick, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142932	0.60	WS11	Brown sandy soil, stones, concrete, clinker, tar, wood,	No asbestos detected	n/t	n/t	n/t	n/t
142934	2.60	WS11	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
142936	4.60	WS11	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t
142937	0.20	WS12	Brown soil, stones, chalk	No asbestos detected	n/t	n/t	n/t	n/t
142941	3.80	WS12	Brown soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
142947	0.10	TP03	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t
142951	0.50	TP05	brown sandy soil with stones, brick and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142967	0.80	TP12	brown sandy soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
142971	0.70	TP14	brown sandy soil with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142980	2.00	TP18	brown soil (clay) with stones, clinker and silver paper	No asbestos detected	n/t	n/t	n/t	n/t
142987	0.30	TP24	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142989	1.50	TP24	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142991	2.00	TP25	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142994	0.50	TP26	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
142998	1.00	TP27	brown soil (clay) with stones, clinker and wood	No asbestos detected	n/t	n/t	n/t	n/t
143001	1.50	TP29	brown sandy soil with stones, clinker and twigs	No asbestos detected	n/t	n/t	n/t	n/t
143004	2.50	TP30	brown sandy soil with stones, clinker and grey slate	No asbestos detected	n/t	n/t	n/t	n/t
143008	2.50	TP31	brown soil (clay) with stones	No asbestos detected	n/t	n/t	n/t	n/t
143015	0.40	TP35	brown sandy soil with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
143021	0.50	TP37	brown sandy soil with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
143023	2.00	TP37	brown sandy soil with stones, clinker, chalk and twigs	No asbestos detected	n/t	n/t	n/t	n/t
143030	1.70	TP39	brown sandy soil with stones, clinker and clear glass	No asbestos detected	n/t	n/t	n/t	n/t
143032	1.00	TP40	brown sandy soil with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
143038	0.50	TP43	brown sandy soil with stones, clinker, brick and chalk	No asbestos detected	n/t	n/t	n/t	n/t
143040	1.90	TP43	brown sandy soil with stones, clinker and grey slate	No asbestos detected	n/t	n/t	n/t	n/t
143046	0.30	TP46	brown sandy soil with stones, clinker, twigs and chalk	No asbestos detected	n/t	n/t	n/t	n/t
143049	3.00	TP46	brown soil (clay) with stones, clinker and brick	No asbestos detected	n/t	n/t	n/t	n/t
143053	2.70	TP47	brown soil (clay) with stones	No asbestos detected	n/t	n/t	n/t	n/t
143058	0.40	TP49	brown soil (clay) with stones, clinker, twigs and clear	No asbestos detected	n/t	n/t	n/t	n/t
143060	2.50	TP49	brown sandy soil with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
143063	1.20	TP50	brown soil (clay) with stones and clinker	No asbestos detected	n/t	n/t	n/t	n/t
143102	0.05	HP07A	brown sandy soil with stones and twigs	No asbestos detected	n/t	n/t	n/t	n/t
143103	0.10	HP07B	brown sandy soil with stones, twigs and leaves	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-18532

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Aliphatic hydrocarbons in leachate	N		18/07/2018		GC-FID
Aliphatic/Aromatic hydrocarbons in leach	N		23/07/2018		GC-FID
Ammonia in soil	N	As submitted sample	19/07/2018		
Aromatic hydrocarbons in leachate	N		18/07/2018		GC-FID
Carbon in leachates	N		18/07/2018		IR
Cyanide (L) in solids in leachates	N		17/07/2018		Colorimetry
Elemental Sulphur by HPLC in leachates	N	On prepared leachate	18/07/2018		HPLC
Free cyanide	N	As submitted sample	17/07/2018		Colorimetry
Phenols in leachates	N		17/07/2018		HPLC
Sulphide in solids in leachates	N		17/07/2018		Colorimetry
VOC in solids	M	As submitted sample	17/07/2018		GC-MS
pH of leachates	N		19/07/2018		Electromeric
Metals by ICP in leachates	N		17/07/2018	101	ICPMS
Free cyanide	N	As submitted sample	17/07/2018	107	Colorimetry
Sulphide	N	As submitted sample	16/07/2018	109	Colorimetry
Hexavalent chromium	N	As submitted sample	16/07/2018	110	Colorimetry
pH	M	Air dried sample	16/07/2018	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	18/07/2018	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	16/07/2018	118	ICPMS
W. Sol Metals	N	Air dried sample	17/07/2018	118	ICPMS
Phenols in solids	N	As submitted sample	16/07/2018	121	HPLC
Elemental Sulphur	M	Air dried sample	16/07/2018	122	HPLC
PAH (GC-FID)	M	As submitted sample	16/07/2018	133	GC-FID
PAHs and/or PCBs in leachates	N		19/07/2018	135	GC-MS
SVOC in solids	N	As submitted sample	16/07/2018	167	GC-MS
Water soluble anions	M	Air dried sample	16/07/2018	172	Ion Chromatography
Organochlorine Pesticides in solids	M	As submitted sample	16/07/2018	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	17/07/2018	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	17/07/2018	181	GC-MS
VOC in solids	M	As submitted sample	17/07/2018	181	GC-MS
BTEX in solids	M	As submitted sample	17/07/2018	181A	GC-MS
Low range Aliphatic hydrocarbons leachat	N		19/07/2018	200	GC-MS
Low range Aromatic hydrocarbons leachate	N		19/07/2018	200	GC-MS
BTEX in leachates	N		19/07/2018	200A	GC-MS
Water soluble boron	N	Air dried sample	16/07/2018	202	Colorimetry
Total cyanide	M	As submitted sample	16/07/2018	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	16/07/2018	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	16/07/2018	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	17/07/2018	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	16/07/2018	214	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	16/07/2018	216	IR
Anions in leachates	N		17/07/2018	270	Ion Chromatography
Asbestos identification	U	Air dried sample	16/07/2018	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-18532

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-18829

Issue: 1

Date of Issue: 08/08/2018

Contact: Jason Kanellis

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex
BN6 9GL

Quotation No: Q14-00021

Order No: 602

Customer Reference: GE17326

Date Received: 31/07/2018

Date Approved: 08/08/2018

Details: Evergreen Farm, East Grinstead

Approved by: 

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 18-18829

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
145076	WS02 2.33	30/07/2018	31/07/2018		
145077	WS08 4.05	30/07/2018	31/07/2018		
145078	WS11 2.26	30/07/2018	31/07/2018		
145079	WS12 0.88	30/07/2018	31/07/2018		
145080	Stream 0.88	30/07/2018	31/07/2018		

Results Summary

Report No.: 18-18829

ELAB Reference	145076	145077	145078	145079	145080
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream
Sample Depth (m)	2.33	4.05	2.26	0.88	0.88
Sampling Date	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018

Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	18	11	6	13	< 5
Boron	N	ug/l	5	263	149	257	954	175
Barium	U	ug/l	5	183	148	121	273	45
Beryllium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	< 5	17	10	< 5	< 5
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	5	8	6	< 5
Vanadium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Anions								
Chloride	U	mg/l	0.5	56.3	135	204	201	49.3
Nitrite	U	mg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Nitrate	U	mg/l	0.5	< 0.5	1.0	< 0.5	< 0.5	4.8
Sulphate	U	mg/l	0.5	6.0	42.8	18.2	38.8	97.8
Inorganics								
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	8.2	8.2	33	41	< 0.1
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Ammonia as NH4	N	mg/l	0.1	13	13	51	64	0.1
Sulphide	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Miscellaneous								
Biochemical Oxygen Demand (5 day)	N	mg/l	2	> 400	19	13	12	9
Chemical Oxygen Demand	N	mg/l	2	9400	240	110	100	36
Electrical Conductivity	U	uS/cm	1	1120	1370	1300	2040	734
Dissolved organic carbon	U	mg/l	1.5	30	82	51	54	16
Dissolved Oxygen	U	mg/l	0.1	< 0.1	3.4	6.8	7.1	8.9
pH	U	pH units	0.1	7.4	6.9	7.2	7.7	7.6
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1

Results Summary

Report No.: 18-18829

ELAB Reference	145076	145077	145078	145079	145080
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream
Sample Depth (m)	2.33	4.05	2.26	0.88	0.88
Sampling Date	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	15.9	0.17	0.35	0.76	0.10
Acenaphthylene GCMS	N	ug/l	0.01	60.9	0.35	0.26	0.31	0.14
Acenaphthene GCMS	N	ug/l	0.01	144	0.07	0.08	0.22	0.02
Fluorene GCMS	N	ug/l	0.01	158	0.05	0.10	0.13	0.02
Phenanthrene GCMS	N	ug/l	0.01	687	0.14	0.47	0.30	0.05
Anthracene GCMS	N	ug/l	0.01	171	0.12	0.32	0.24	0.04
Fluoranthene GCMS	N	ug/l	0.01	1200	0.28	0.86	0.59	0.10
Pyrene GCMS	N	ug/l	0.01	964	0.24	0.72	0.52	0.09
Benzo (a) anthracene GCMS	N	ug/l	0.01	591	0.17	0.46	0.33	0.06
Chrysene GCMS	N	ug/l	0.01	452	0.14	0.40	0.31	0.05
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	547	0.22	0.51	0.50	0.07
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	431	0.18	0.40	0.39	0.07
Benzo (a) pyrene GCMS	N	ug/l	0.01	779	0.24	0.67	0.67	0.09
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	316	0.15	0.30	0.36	0.05
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	123	0.07	0.12	0.16	0.02
Benzo(ghi)perylene GCMS	N	ug/l	0.01	369	0.16	0.34	0.46	0.05
Total PAH(16) GCMS	N	ug/l	0.01	7010	2.75	6.35	6.25	1.02
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	10.5	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	15.4	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	173	5.5	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	13.8	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	212	5.5	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	1.9	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	11.4	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	38.6	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	231	8.5	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic	N	ug/l	5	8.1	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	289	8.5	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro	N	ug/l	5	501	14.0	< 5.0	< 5.0	< 5.0

Results Summary

Report No.: 18-18829

ELAB Reference	145076	145077	145078	145079	145080
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream
Sample Depth (m)	2.33	4.05	2.26	0.88	0.88
Sampling Date	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018

Determinand	Codes	Units	LOD					
VOC								
MTBE	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Heptane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Octane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Nonane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Benzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Toluene	U	ug/l	1	< 1	< 1	< 1	2	< 1
Ethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
m+p-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,2-dichloroethene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chloroform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trichloroethylene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Methylethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trans - 1-2 -dichloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromoethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Styrene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
t-butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-methylpropylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-cymene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-2-3 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Naphthalene	U	ug/l	1	< 1	< 1	4	1	< 1
1-2-4 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromoform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1



Results Summary

Report No.: 18-18829

				ELAB Reference	145076	145077	145078	145079	145080
				Customer Reference					
				Sample ID					
				Sample Type	WATER	WATER	WATER	WATER	WATER
				Sample Location	WS02	WS08	WS11	WS12	Stream
				Sample Depth (m)	2.33	4.05	2.26	0.88	0.88
				Sampling Date	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Determinand	Codes	Units	LOD						
SVOC									
Phenol	N	ug/l	1	1.80	< 1.00	< 1.00	1.48	< 1.00	
Aniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Chlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzyl Alcohol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3 and 4-methylphenol	N	ug/l	1	8.25	16.4	< 1.00	22.2	< 1.00	< 1.00
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloroethane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Nitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Isophorone	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dimethylphenol	N	ug/l	1	1.86	< 1.00	< 1.00	17.8	< 1.00	< 1.00
Bis(2-chloroethoxy)methane	N	ug/l	1	3.35	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Naphthalene	N	ug/l	0.01	16.7	0.16	0.36	1.29	0.11	
3-Chloroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylnaphthalene	N	ug/l	1	13.7	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Methylnaphthalene	N	ug/l	1	20.2	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Chloronaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dimethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-3-dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-6-dinitrotoluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthylene	N	ug/l	0.01	58.4	0.18	0.20	0.23	0.11	
1,2-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthene	N	ug/l	0.01	157	0.07	0.08	0.35	0.02	
4-nitrophenol	N	ug/l	1	4.69	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibenzofuran	N	ug/l	1	44.3	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluorene	N	ug/l	0.01	157	0.02	0.10	0.13	0.03	
4-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diphenylamine	N	ug/l	1	7.29	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Azobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

Tests marked N are not UKAS accredited.



Results Summary

Report No.: 18-18829

				ELAB Reference	145076	145077	145078	145079	145080
				Customer Reference					
				Sample ID					
				Sample Type	WATER	WATER	WATER	WATER	WATER
				Sample Location	WS02	WS08	WS11	WS12	Stream
				Sample Depth (m)	2.33	4.05	2.26	0.88	0.88
				Sampling Date	30/07/2018	30/07/2018	30/07/2018	30/07/2018	30/07/2018
Determinand	Codes	Units	LOD						
SVOC									
Phenanthrene	N	ug/l	0.01	690	0.12	0.49	0.34	0.05	
Anthracene	N	ug/l	0.01	168	0.09	0.26	0.20	0.03	
Carbazole	N	ug/l	1	61.5	< 1.00	< 1.00	3.97	< 1.00	
Dibutyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Fluoranthene	N	ug/l	0.01	1240	0.25	0.81	0.62	0.09	
Pyrene	N	ug/l	0.01	1040	0.23	0.70	0.60	0.08	
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Benzo(a)anthracene	N	ug/l	0.01	872	0.16	0.41	0.23	0.06	
Chrysene	N	ug/l	0.01	491	0.17	0.38	0.25	0.05	
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Benzo(b)fluoranthene	N	ug/l	0.01	290	0.19	0.40	0.33	0.04	
Benzo(k)fluoranthene	N	ug/l	0.01	444	0.15	0.36	0.68	0.05	
Benzo(a)pyrene	N	ug/l	0.01	539	0.17	0.41	0.60	0.05	
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	458	0.10	0.24	0.36	0.03	
Dibenz(ah)anthracene	N	ug/l	0.01	136	0.05	0.10	0.23	0.01	
Benzo(ghi)perylene	N	ug/l	0.01	339	0.12	0.28	0.46	0.04	

Method Summary

Report No.: 18-18829

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		03/08/2018		GC-FID
Aromatic hydrocarbons in water	N		03/08/2018		GC-FID
Phenols in waters	N		02/08/2018		HPLC
Dissolved metals by ICP in waters	U		02/08/2018	101	ICPMS
Dissolved organic carbon	U		03/08/2018	102	IR
pH of waters	U		02/08/2018	113	Electromeric
Chromium Hexavalent in waters	U		02/08/2018	123	Colorimetry
PAHs and/or PCBs in waters	N		02/08/2018	135	GC-MS
Electrical conductivity of water	U		03/08/2018	136	Electromeric
BOD	N		07/08/2018	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		03/08/2018	143	Colorimetry
Ammonia in waters	N		02/08/2018	151	Colorimetry
SVOC in waters	N		02/08/2018	167	GC-MS
Low range Aliphatic hydrocarbons water	N		02/08/2018	200	GC-MS
Low range Aromatic hydrocarbons water	N		02/08/2018	200	GC-MS
VOC in waters	U		01/08/2018	200	GC-MS
Elemental Sulphur by HPLC in waters	N		03/08/2018	206	HPLC
DO (Dissolved Oxygen) in waters	U		03/08/2018	211	Electromeric
Aliphatic hydrocarbons in water	N		02/08/2018	215	GC-FID
Aromatic hydrocarbons in water	N		02/08/2018	215	GC-FID
Anions	U		02/08/2018	270	Ion Chromatography

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-18829

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

- a No date of sampling supplied
- b No time of sampling supplied (Waters Only)
- c Sample not received in appropriate containers
- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618
Facsimile: (01424) 729911
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-19034

Issue: 1

Date of Issue: 20/08/2018

Contact: Tobias Smith

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex
BN6 9GL

Quotation No: Q14-00021

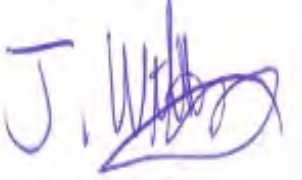
Order No: Not Supplied

Customer Reference: GE17326

Date Received: 13/08/2018

Date Approved: 20/08/2018

Details: Evergreen Farm, East Grinstead

Approved by: 

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 18-19034

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
146424	WS02 2.32	10/08/2018	13/08/2018		
146425	WS08 4.27	10/08/2018	13/08/2018		
146426	WS11 2.65	10/08/2018	13/08/2018		
146427	WS12 1.00	10/08/2018	13/08/2018		
146428	Stream 2 Surface	10/08/2018	13/08/2018		

Results Summary

Report No.: 18-19034

ELAB Reference	146424	146425	146426	146427	146428
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream 2
Sample Depth (m)	2.32	4.27	2.65	1.00	Surface
Sampling Date	10/08/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018

Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	9	6	11	20	< 5
Boron	N	ug/l	5	242	91	240	981	161
Barium	U	ug/l	5	122	60	161	212	31
Beryllium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	< 5	21	11	7	< 5
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	8	< 5	< 5
Vanadium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	9	< 5	< 5	16
Anions								
Chloride	U	mg/l	0.5	25.2	101	190	191	61.6
Nitrite	U	mg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	1.2
Nitrate	U	mg/l	0.5	0.6	< 0.5	< 0.5	< 0.5	1.9
Sulphate	U	mg/l	0.5	0.8	19.9	0.8	21.3	35.6
Inorganics								
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	5.8	1.2	29	29	0.3
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Ammonia as NH4	N	mg/l	0.1	9.0	1.9	45	45	0.5
Sulphide	N	mg/l	0.1	0.1	0.1	0.1	< 0.1	0.1
Miscellaneous								
Biochemical Oxygen Demand (5 day)	N	mg/l	2	19	49	23	24	22
Chemical Oxygen Demand	N	mg/l	2	46	240	220	140	370
Electrical Conductivity	U	uS/cm	1	1280	1150	1390	1920	866
Dissolved organic carbon	U	mg/l	1.5	26	77	89	65	21
Dissolved Oxygen	U	mg/l	0.1	2.4	5.5	5.3	1.9	5.3
pH	U	pH units	0.1	7.4	7.2	7.2	7.7	7.9
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1

Results Summary

Report No.: 18-19034

ELAB Reference	146424	146425	146426	146427	146428
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream 2
Sample Depth (m)	2.32	4.27	2.65	1.00	Surface
Sampling Date	10/08/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	0.69	0.12	1.65	4.45	0.11
Acenaphthylene GCMS	N	ug/l	0.01	2.43	0.29	0.12	0.25	0.20
Acenaphthene GCMS	N	ug/l	0.01	9.46	0.45	0.27	3.43	0.10
Fluorene GCMS	N	ug/l	0.01	9.73	0.39	0.16	1.77	0.06
Phenanthrene GCMS	N	ug/l	0.01	22.5	1.63	0.42	2.68	0.57
Anthracene GCMS	N	ug/l	0.01	7.09	0.50	0.22	0.69	0.27
Fluoranthene GCMS	N	ug/l	0.01	44.9	3.72	0.60	2.22	2.89
Pyrene GCMS	N	ug/l	0.01	34.9	2.80	0.47	1.65	2.57
Benzo (a) anthracene GCMS	N	ug/l	0.01	21.3	2.14	0.36	0.94	2.14
Chrysene GCMS	N	ug/l	0.01	17.0	1.39	0.25	0.66	1.56
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	21.4	2.13	0.37	0.93	1.82
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	19.0	1.51	0.28	0.73	1.83
Benzo (a) pyrene GCMS	N	ug/l	0.01	22.2	2.29	0.40	1.02	2.25
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	19.7	1.52	0.28	0.75	1.48
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	10.5	0.70	0.12	0.37	0.71
Benzo(ghi)perylene GCMS	N	ug/l	0.01	21.7	1.61	0.29	0.87	1.61
Total PAH(16) GCMS	N	ug/l	0.01	284	23.2	6.27	23.4	20.2
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	25.5	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	222	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	222	< 5.0	25.5	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro	N	ug/l	5	222	< 5.0	25.5	< 5.0	< 5.0

Results Summary

Report No.: 18-19034

ELAB Reference	146424	146425	146426	146427	146428
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	WS02	WS08	WS11	WS12	Stream 2
Sample Depth (m)	2.32	4.27	2.65	1.00	Surface
Sampling Date	10/08/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018

Determinand	Codes	Units	LOD					
VOC								
MTBE	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Heptane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Octane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Nonane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Benzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Toluene	U	ug/l	1	< 1	< 1	26	< 1	< 1
Ethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
m+p-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,2-dichloroethene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chloroform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trichloroethylene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Methylethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trans - 1-2 -dichloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromoethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Styrene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
t-butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-methylpropylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-cymene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-2-3 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Naphthalene	U	ug/l	1	< 1	< 1	2	5	< 1
1-2-4 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromoform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1



Results Summary

Report No.: 18-19034

				ELAB Reference	146424	146425	146426	146427	146428
				Customer Reference					
				Sample ID					
				Sample Type	WATER	WATER	WATER	WATER	WATER
				Sample Location	WS02	WS08	WS11	WS12	Stream 2
				Sample Depth (m)	2.32	4.27	2.65	1.00	Surface
				Sampling Date	10/08/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018
Determinand	Codes	Units	LOD						
SVOC									
Phenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Aniline	N	ug/l	1	< 1.00	3.41	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Chlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzyl Alcohol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,2-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylphenol	N	ug/l	1	< 1.00	< 1.00	1.69	< 1.00	< 1.00	< 1.00
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3 and 4-methylphenol	N	ug/l	1	3.16	< 1.00	27.3	1.06	< 1.00	< 1.00
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloroethane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Nitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Isophorone	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dimethylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis(2-chloroethoxy)methane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4-Dichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Naphthalene	N	ug/l	0.01	0.75	0.14	1.86	4.69	0.12	
3-Chloroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	1.66	< 1.00	< 1.00
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-Chloronaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1,4-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dimethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-3-dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2-6-dinitrotoluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthylene	N	ug/l	0.01	2.00	0.23	0.09	0.20	0.15	
1,2-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
3-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthene	N	ug/l	0.01	10.0	0.47	0.24	3.47	0.11	
4-nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibenzofuran	N	ug/l	1	2.11	< 1.00	< 1.00	1.07	< 1.00	< 1.00
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluorene	N	ug/l	0.01	8.47	0.33	0.13	1.52	0.07	
4-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diphenylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Azobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

Tests marked N are not UKAS accredited.



Results Summary

Report No.: 18-19034

				ELAB Reference	146424	146425	146426	146427	146428
Customer Reference									
Sample ID									
Sample Type				WATER	WATER	WATER	WATER	WATER	
Sample Location				WS02	WS08	WS11	WS12	Stream 2	
Sample Depth (m)				2.32	4.27	2.65	1.00	Surface	
Sampling Date				10/08/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018	
Determinand	Codes	Units	LOD						
SVOC									
Phenanthrene	N	ug/l	0.01	20.2	1.38	0.37	2.31	0.48	
Anthracene	N	ug/l	0.01	5.25	0.37	0.16	0.50	0.19	
Carbazole	N	ug/l	1	2.32	< 1.00	< 1.00	5.72	< 1.00	
Dibutyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Fluoranthene	N	ug/l	0.01	43.5	2.90	0.46	1.71	2.27	
Pyrene	N	ug/l	0.01	35.1	2.41	0.40	1.34	2.12	
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Benzo(a)anthracene	N	ug/l	0.01	15.1	1.23	0.21	0.51	1.17	
Chrysene	N	ug/l	0.01	16.2	1.25	0.22	0.58	1.38	
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Benzo(b)fluoranthene	N	ug/l	0.01	17.1	0.85	0.21	0.47	0.81	
Benzo(k)fluoranthene	N	ug/l	0.01	14.8	1.02	0.19	0.46	1.16	
Benzo(a)pyrene	N	ug/l	0.01	19.0	1.11	0.19	0.49	1.08	
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	11.3	0.52	0.09	0.27	0.52	
Dibenz(ah)anthracene	N	ug/l	0.01	4.75	0.24	0.04	0.12	0.20	
Benzo(ghi)perylene	N	ug/l	0.01	14.5	0.70	0.11	0.37	0.72	

Method Summary

Report No.: 18-19034

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		17/08/2018		GC-FID
Aromatic hydrocarbons in water	N		17/08/2018		GC-FID
Phenols in waters	N		15/08/2018		HPLC
Dissolved metals by ICP in waters	U		15/08/2018	101	ICPMS
Dissolved organic carbon	U		16/08/2018	102	IR
pH of waters	U		15/08/2018	113	Electromeric
Chromium Hexavalent in waters	U		17/08/2018	123	Colorimetry
PAHs and/or PCBs in waters	N		16/08/2018	135	GC-MS
Electrical conductivity of water	U		15/08/2018	136	Electromeric
BOD	N		20/08/2018	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		16/08/2018	143	Colorimetry
Ammonia in waters	N		15/08/2018	151	Colorimetry
SVOC in waters	N		16/08/2018	167	GC-MS
Low range Aliphatic hydrocarbons water	N		15/08/2018	200	GC-MS
Low range Aromatic hydrocarbons water	N		15/08/2018	200	GC-MS
VOC in waters	U		14/08/2018	200	GC-MS
Elemental Sulphur by HPLC in waters	N		16/08/2018	206	HPLC
DO (Dissolved Oxygen) in waters	U		15/08/2018	211	Electromeric
Aliphatic hydrocarbons in water	N		16/08/2018	215	GC-FID
Aromatic hydrocarbons in water	N		16/08/2018	215	GC-FID
Anions	U		15/08/2018	270	Ion Chromatography

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-19034

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

- a No date of sampling supplied
- b No time of sampling supplied (Waters Only)
- c Sample not received in appropriate containers
- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-19292

Issue: 1

Date of Issue: 06/09/2018

Contact: Tobias Smith

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex
BN6 9GL

Quotation No: Q14-00021

Order No: Not Supplied

Customer Reference: GE17326

Date Received: 29/08/2018

Date Approved: 06/09/2018

Details: Evergreen Farm, East Grinstead

Approved by: 

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 18-19292

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
148277	Stream 2 Surface	24/08/2018	29/08/2018		
148278	WS02 2.36	24/08/2018	29/08/2018		
148279	WS08 4.26	24/08/2018	29/08/2018		
148280	WS11 2.65	24/08/2018	29/08/2018		
148281	WS12 1.15	24/08/2018	29/08/2018		

Results Summary

Report No.: 18-19292

ELAB Reference	148277	148278	148279	148280	148281
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	Stream 2	WS02	WS08	WS11	WS12
Sample Depth (m)	Surface	2.36	4.26	2.65	1.15
Sampling Date	24/08/2018	24/08/2018	24/08/2018	24/08/2018	24/08/2018

Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	< 5	18	6	14	19
Boron	N	ug/l	5	147	231	102	238	1010
Barium	U	ug/l	5	27	160	88	150	247
Beryllium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	< 5	< 5	12	7	6
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5	10	< 5
Vanadium	N	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Anions								
Chloride	U	mg/l	0.5	48.9	23.1	101	166	145
Nitrite	U	mg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Nitrate	U	mg/l	0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5
Sulphate	U	mg/l	0.5	15.5	< 0.5	34.0	< 0.5	10.4
Inorganics								
Elemental Sulphur	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as N	N	mg/l	0.1	0.4	12	8.2	62	33
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Ammonia as NH4	N	mg/l	0.1	0.6	19	13	96	51
Sulphide	N	mg/l	0.1	< 0.1	0.4	< 0.1	< 0.1	< 0.1
Miscellaneous								
Biochemical Oxygen Demand (5 day)	N	mg/l	2	48	110	45	41	25
Chemical Oxygen Demand	N	mg/l	2	560	1500	290	310	190
Electrical Conductivity	U	uS/cm	1	870	1320	1250	1430	1890
Dissolved organic carbon	U	mg/l	1.5	22	36	73	98	55
Dissolved Oxygen	U	mg/l	0.1	7.2	2.6	3.9	2.8	3.9
pH	U	pH units	0.1	8.0	7.2	7.1	6.9	7.6
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1

Results Summary

Report No.: 18-19292

ELAB Reference	148277	148278	148279	148280	148281
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	Stream 2	WS02	WS08	WS11	WS12
Sample Depth (m)	Surface	2.36	4.26	2.65	1.15
Sampling Date	24/08/2018	24/08/2018	24/08/2018	24/08/2018	24/08/2018

Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	0.04	0.33	0.11	1.38	4.38
Acenaphthylene GCMS	N	ug/l	0.01	0.10	0.86	0.17	0.14	0.22
Acenaphthene GCMS	N	ug/l	0.01	0.02	2.64	0.10	0.26	3.47
Fluorene GCMS	N	ug/l	0.01	0.01	2.74	0.06	0.13	1.64
Phenanthrene GCMS	N	ug/l	0.01	0.17	8.74	0.42	0.32	2.23
Anthracene GCMS	N	ug/l	0.01	0.13	2.53	0.21	0.25	0.62
Fluoranthene GCMS	N	ug/l	0.01	0.98	18.4	1.22	0.40	1.51
Pyrene GCMS	N	ug/l	0.01	0.92	14.6	1.06	0.34	1.11
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.52	7.83	0.71	0.21	0.50
Chrysene GCMS	N	ug/l	0.01	0.61	6.41	0.63	0.18	0.41
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.48	5.73	0.61	0.17	0.40
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.61	6.88	0.69	0.20	0.43
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.50	7.41	0.72	0.21	0.46
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.22	3.56	0.35	0.10	0.23
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	0.09	1.35	0.16	0.04	0.10
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.34	4.75	0.50	0.14	0.34
Total PAH(16) GCMS	N	ug/l	0.01	5.75	94.8	7.71	4.50	18.1
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	13.2	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	14.7	113	10.6	< 5.0	12.3
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	14.7	127	10.6	< 5.0	12.3
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	12.2	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	12.6
>C12-C16 Aromatic	N	ug/l	5	< 5.0	12.4	< 5.0	< 5.0	18.3
>C16-C21 Aromatic	N	ug/l	5	< 5.0	39.4	< 5.0	< 5.0	13.0
>C21-C35 Aromatic	N	ug/l	5	< 5.0	157	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	< 5.0	209	< 5.0	12.2	43.8
Total (>C5-C40) Ali/Aro	N	ug/l	5	14.7	336	10.6	12.2	56.1

Results Summary

Report No.: 18-19292

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ELAB Reference	148277	148278	148279	148280	148281
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	Stream 2	WS02	WS08	WS11	WS12
Sample Depth (m)	Surface	2.36	4.26	2.65	1.15
Sampling Date	24/08/2018	24/08/2018	24/08/2018	24/08/2018	24/08/2018

Determinand	Codes	Units	LOD					
VOC								
MTBE	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Heptane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Octane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Nonane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Benzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Toluene	U	ug/l	1	< 1	< 1	< 1	12	< 1
Ethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
m+p-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-xylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,2-dichloroethene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chloroform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trichloroethylene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	2
Bromobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Methylethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Trans - 1-2 -dichloroethylene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloro-1-propene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Dibromoethane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Styrene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
t-butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-methylpropylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
o-cymene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Butylbenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1-2-3 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Naphthalene	U	ug/l	1	< 1	< 1	< 1	2	5
1-2-4 - Trichlorobenzene	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Bromoform	U	ug/l	1	< 1	< 1	< 1	< 1	< 1



Results Summary

Report No.: 18-19292

				ELAB Reference	148277	148278	148279	148280	148281
				Customer Reference					
				Sample ID					
				Sample Type	WATER	WATER	WATER	WATER	WATER
				Sample Location	Stream 2	WS02	WS08	WS11	WS12
				Sample Depth (m)	Surface	2.36	4.26	2.65	1.15
				Sampling Date	24/08/2018	24/08/2018	24/08/2018	24/08/2018	24/08/2018
Determinand	Codes	Units	LOD						
SVOC									
Phenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	3.64	< 1.00	
Aniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Bis(2-chloroethyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-Chlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,3-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,4-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Benzyl Alcohol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,2-Dichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-Methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	1.19	< 1.00	
Bis(2-chloroisopropyl)ether	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
3 and 4-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	26.1	< 1.00	
N-Nitrosodi-n-propylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Hexachloroethane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Nitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Isophorone	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-Nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2,4-Dimethylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Bis(2-chloroethoxy)methane	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2,4-Dichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,3,5-Trichlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Naphthalene	N	ug/l	0.01	0.04	0.36	0.11	1.51	4.73	
3-Chloroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Hexachloro-1,3-butadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
4-Chloro-3-methylphenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1-Methylnaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	1.91	
Hexachlorocyclopentadiene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2,4,6-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2,4,5-Trichlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1-Chloronaphthalene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1,4-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Dimethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
1-3-dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
2-6-dinitrotoluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
Acenaphthylene	N	ug/l	0.01	0.09	0.84	0.14	0.12	0.19	
1,2-Dinitrobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	



Results Summary

Report No.: 18-19292

ELAB Reference	148277	148278	148279	148280	148281
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	Stream 2	WS02	WS08	WS11	WS12
Sample Depth (m)	Surface	2.36	4.26	2.65	1.15
Sampling Date	24/08/2018	24/08/2018	24/08/2018	24/08/2018	24/08/2018

Determinand	Codes	Units	LOD					
SVOC								
3-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Acenaphthene	N	ug/l	0.01	0.02	2.73	0.11	0.24	3.92
4-nitrophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dibenzofuran	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	1.02
2,3,5,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
2,3,4,6-Tetrachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diethyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-chloro-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluorene	N	ug/l	0.01	0.02	2.32	0.05	0.11	1.42
4-Nitroaniline	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Dinitro-o-cresol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Diphenylamine	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Azobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
1-bromo-4-phenoxybenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Hexachlorobenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Pentachlorophenol	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Phenanthrene	N	ug/l	0.01	0.12	6.71	0.33	0.24	1.72
Anthracene	N	ug/l	0.01	0.08	1.74	0.15	0.15	0.40
Carbazole	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	5.50
Dibutyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Fluoranthene	N	ug/l	0.01	0.84	15.9	1.04	0.33	1.23
Pyrene	N	ug/l	0.01	0.85	13.4	0.95	0.29	0.98
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Bis-2-ethylhexyladipate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Butyl benzyl phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(a)anthracene	N	ug/l	0.01	0.58	5.95	0.56	0.15	0.37
Chrysene	N	ug/l	0.01	0.63	6.35	0.64	0.18	0.41
Bis(2-ethylhexyl)phthalate	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Benzo(b)fluoranthene	N	ug/l	0.01	0.56	6.87	0.58	0.28	0.48
Benzo(k)fluoranthene	N	ug/l	0.01	0.64	5.40	0.64	0.18	0.37
Benzo(a)pyrene	N	ug/l	0.01	0.48	6.45	0.64	0.19	0.40
Indeno(1,2,3-CD)pyrene	N	ug/l	0.01	0.22	3.68	0.34	0.10	0.22
Dibenz(ah)anthracene	N	ug/l	0.01	0.09	1.36	0.15	0.04	0.09
Benzo(ghi)perylene	N	ug/l	0.01	0.33	4.65	0.51	0.15	0.32

Method Summary

Report No.: 18-19292

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		04/09/2018		GC-FID
Aromatic hydrocarbons in water	N		04/09/2018		GC-FID
Phenols in waters	N		31/08/2018		HPLC
Dissolved metals by ICP in waters	U		31/08/2018	101	ICPMS
Dissolved organic carbon	U		04/09/2018	102	IR
pH of waters	U		31/08/2018	113	Electromeric
Chromium Hexavalent in waters	U		04/09/2018	123	Colorimetry
PAHs and/or PCBs in waters	N		03/09/2018	135	GC-MS
Electrical conductivity of water	U		31/08/2018	136	Electromeric
BOD	N		06/09/2018	142	5 Day
COD (Chemical Oxygen Demand in waters)	N		06/09/2018	143	Colorimetry
Ammonia in waters	N		03/09/2018	151	Colorimetry
SVOC in waters	N		03/09/2018	167	GC-MS
Low range Aliphatic hydrocarbons water	N		03/09/2018	200	GC-MS
Low range Aromatic hydrocarbons water	N		03/09/2018	200	GC-MS
VOC in waters	U		31/08/2018	200	GC-MS
Elemental Sulphur by HPLC in waters	N		03/09/2018	206	HPLC
DO (Dissolved Oxygen) in waters	U		31/08/2018	211	Electromeric
Aliphatic hydrocarbons in water	N		03/09/2018	215	GC-FID
Aromatic hydrocarbons in water	N		03/09/2018	215	GC-FID
Anions	U		31/08/2018	270	Ion Chromatography

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-19292

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Client/client ref: Eged Duckworth Limited & Fluid Planning
 Project ref: Evergreen Farm, East Grinstead
 Site ref: GE17326
 Data description:
 Contaminant(s):
 Test scenario: Planning
 Date: 7 August 2018
 User details:

	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)
Critical concentration, C_c	79	2680	2.19	220	30600	16400	630	474	347	1370	818
Notes											
Full dataset size	9	9	9	9	9	9	9	9	9	9	9
Outliers present?	No	Yes	No	No	No	No	No	No	No	No	No
Number of outliers temporarily excluded	0										
Number removed by filter	0	0	0	0	0	0	0	0	0	0	0
Sample size, n	9	9	9	9	9	9	9	9	9	9	9
Sample mean, \bar{x}	14.3333333	178.855556	0.9	0.31666667	26.4777778	27.3888889	108.122222	0.25	18.4555556	0.5	35.5222222
Standard deviation, s	3.04548847	170.557858	0.38729833	0.13462912	5.26777415	8.1082434	69.2531006	0	4.3009043	0	9.48258638
Number of non-detects	0	0	4	7	0	0	0	9	0	9	0
Set non-detect values to:	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit
Distribution	Normal	Non-normal	Non-normal	Non-normal	Normal	Normal	Normal	Single value	Normal	Single value	Normal
Statistical approach	Auto: One-sample t	Auto: Chebychev	Auto: Chebychev	Auto: Chebychev	Auto: One-sample t	Auto: One-sample t	Auto: One-sample t	Auto: Chebychev	Auto: One-sample t	Auto: Chebychev	Auto: One-sample t

Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)				Evidence level required: 95%		Use Normal distribution to test for outliers				
t statistic, t₀ (or k₀)	-63.70078302	-43.99347788	-9.992297033	-4895.300505	-17411.63614	-6057.765028	-22.60741136	N/A	-229.1688596	N/A	-247.5520116
Upper confidence limit (on true mean concentration, μ)	16.2210774	426.670377	1.46273143	0.51227824	29.7430041	32.4147783	151.048711	0.25	21.1214683	0.5	41.3999972
Evidence level	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%
Base decision on:	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level
Result	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$
Select dataset	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Client/client ref: Eged Duckworth Limited & Fluid Planning
 Project ref: Evergreen Farm, East Grinstead
 Site ref: GE17326
 Data description:
 Contaminant(s):
 Test scenario: Planning
 Date: 7 August 2018
 User details:

	Zinc (mg/kg)	Water Soluble Boron (mg/kg)	Benzo (a) pyrene (mg/kg)						
Critical concentration, C_c	93700	45000	10						
Notes									
Full dataset size	9	9	9	0	0	0	0	0	0
Outliers present?	Yes	Yes	Yes						
Number of outliers temporarily excluded									
Number removed by filter	0	0	0	0	0	0	0	0	0
Sample size, n	9	9	9	0	0	0	0	0	0
Sample mean, \bar{x}	127.055556	0.45555556	5.92222222	No Data	No Data	No Data	No Data	No Data	No Data
Standard deviation, s	64.0914798	0.38523081	8.26253257						
Number of non-detects	0	6	0	0	0	0	0	0	0
Set non-detect values to:	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit
Distribution	Non-normal	Non-normal	Non-normal						
Statistical approach	Auto: Chebychev	Auto: Chebychev	Auto: Chebychev	Auto	Auto	Auto	Auto	Auto	Auto

Test scenario:									
t statistic, t₀ (or k₀)	-4379.971166	-350435.7114	-1.480579136						
Upper confidence limit (on true mean concentration, μ)	220.178317	1.01528295	17.9274037						
Evidence level	100%	100%	69%						
Base decision on:	evidence level	evidence level	evidence level						
Result	$\mu < C_c$	$\mu < C_c$	$\mu \approx C_c$						
Select dataset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Back to data

Client/client ref: Ged Duckworth Limited & Fluid Planning
 Project ref: Evergreen Farm, East Grinstead
 Site ref: GE17326
 Data description:
 Contaminant(s):
 Test scenario: Planning
 Date: 7 August 2018
 User details:

	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	Hexavalent Chromium (mg/kg)	Total Cyanide (mg/kg)	Benzo (a) pyrene (mg/kg)
Critical concentration, C_c	37	56.8	1.71	26	14300	4730	200	180	136	375	136	20000	21	34	5
Notes															
Full dataset size	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Outliers present?	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No
Number of outliers temporarily excluded														0	
Number removed by filter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sample size, n	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Sample mean, \bar{x}	4.15	16.2	0.5	0.25	8.3	5.325	7.275	0.25	5.175	0.5	6.8	24.8	0.4	1.025	0.05
Standard deviation, s	2.0174241	10.8357433	0	0	2.23159136	3.49892841	5.89371134	0	1.80623919	0	3.98915196	5.73933794	0	1.05	0
Number of non-detects	0	1	4	4	0	2	2	4	1	4	1	0	4	3	4
Set non-detect values to:	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit
Distribution	Normal	Normal	Single value	Single value	Normal	Normal	Normal	Single value	Normal	Single value	Normal	Normal	Single value	Non-normal	Single value
Statistical approach	Auto: One-sample t	Auto: One-sample t	Auto: Chebychev	Auto: Chebychev	Auto: One-sample t	Auto: One-sample t	Auto: One-sample t	Auto: Chebychev	Auto: One-sample t	Auto: Chebychev	Auto: One-sample t	Auto: One-sample t	Auto: Chebychev	Auto: Chebychev	Auto: Chebychev
Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)?		Evidence level required:		95%		Use Normal distribution to test for outliers								
t statistic, t₀ (or k₀)	-32.56628093	-7.49371756	N/A	N/A	-12808.52781	-2700.641139	-65.40021693	N/A	-144.8589987	N/A	-64.77567233	-6960.802868	N/A	-62.80952381	N/A
Upper confidence limit (on true mean concentration, μ)	6.52386605	28.9502211	0.5	0.25	10.9258728	9.44212509	14.2100224	0.25	7.30036863	0.5	11.4939622	31.553374	0.4	3.31342195	0.05
Evidence level	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Base decision on:	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level	evidence level
Result	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$	$\mu < C_c$
Select dataset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Back to data	Go to outlier test		Go to normality test		Show individual summary										