

			Lab No.	581151	581493	586222	586403	586405	586404	583606	583607	591851	583604	583605	583602	583603	583110	583107	583108	583103	583104
			Sample ID	BH1	BH2	BH22	BH23	BH23	BH24	TP1	TP1	TP1	TP2	TP2	TP3	TP3	TP3	TP4	TP4	TP5	TP5
			Depth	2	3.8	0.7	2	2.6	3	0.4	1.5	1.7	0.5	1	0.5	2	5	0.4	1	0.3	1.7
			Area AC	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date	/ /	26/11/2013	04/12/2013	09/12/2013	09/12/2013	09/12/2013	29/11/2013	29/11/2013	05/12/2013	29/11/2013	29/11/2013	29/11/2013	29/11/2013	28/11/2013	28/11/2013	28/11/2013	28/11/2013	28/11/2013
			Sample horizon	Sand	Gravel	MG	Gravel	Sand	Sand	MG	Gravel	Gravel	MG	Gravel	MG	Clay	Clay	Clay	Gravel	MG	Sand
Test	Units	DETSxx	LOD																		
Stones >2mm	% m/m	DETSC 1003*	1	6	3.2	3.9	4.7	9.1	3.8	4.9	4.2	-	4	8.3	2.3	6.3	3	6.4	5.1	3.5	6
Moisture Content	%	DETS 046*	0.1	13	10	8.4	17	9.7	17	18	9.6	-	11	12	15	24	22	24	14	7	20
Arsenic	mg/kg	DETSC2301#	0.2	5.6	8.3	8.7	7.7	9.6	6	54	12	-	20	13	13	8.7	8.7	8.9	17	5.6	3.7
Boron (water soluble)	mg/kg	DETSC2123#	0.2	0.4	0.3	< 0.2	< 0.2	< 0.2	< 0.2	1.6	< 0.2	-	0.4	0.3	1.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	mg/kg	DETSC2301#	0.1	0.8	0.5	0.6	0.5	0.7	0.6	0.8	0.7	-	1.3	0.8	0.7	0.7	0.8	0.7	0.6	0.9	0.3
Chromium	mg/kg	DETSC2301#	0.15	18	22	18	20	22	20	28	23	-	30	22	17	32	42	43	20	10	13
Copper	mg/kg	DETSC2301#	0.2	14	17	14	24	17	15	81	22	-	45	23	18	22	23	21	16	20	12
Lead	mg/kg	DETSC2301#	0.3	16	44	20	14	15	20	48	20	-	100	43	77	23	27	21	30	52	9.5
Mercury	mg/kg	DETSC 2325#	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.05	-	0.26	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05
Nickel	mg/kg	DETSC2301#	1	22	18	22	18	22	20	67	28	-	56	49	69	37	37	36	22	15	16
Selenium	mg/kg	DETSC2301#	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	0.7	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	mg/kg	DETSC2301#	1	49	58	63	43	51	41	72	61	-	140	72	59	65	70	67	51	64	34
Loss on ignition	%	DETSC 2003#	0.01	0.89	0.68	1	0.49	0.7	0.6	7.4	1.5	-	4.9	1.9	2.4	2	2.7	1.9	1.9	1.4	0.91
pH		DETSC 2008#		10.1	8	9	8.7	8.3	8.1	8.6	8.1	-	8.3	8.4	9.2	8.5	8.7	8.8	8.3	9.6	8.6
Cyanide total	mg/kg	DETSC 2130#	0.1	2.7	0.2	< 0.1	0.1	< 0.1	< 0.1	0.5	1.3	-	29	16	3.8	0.1	< 0.1	0.2	0.8	1	< 0.1
Cyanide free	mg/kg	DETSC 2130#	0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.3	-	2.2	0.5	1.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cyanide complex	mg/kg	DETSC 2130	0.2	2.5	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.3	1	-	26	15	2.6	< 0.2	< 0.2	0.2	0.8	1	< 0.2
Thiocyanate	mg/kg	DETSC 2130#	0.6	0.9	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-	5.1	1.5	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Ammoniacal Nitrogen as N	mg/kg	DETSC 2119#	0.5	2.1	4.9	4.7	18	22	5.5	7.4	13	-	19	20	55	71	3.9	550	15	< 0.50	< 0.50
Chloride Aqueous Extract	mg/l	DETSC 2055	1	15	8.4	7.8	15	8.8	16	15	16	-	13	11	12	10	7.8	12	10	9.8	8.7
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	240	71	16	65	63	27	150	64	-	200	74	190	22	38	53	46	140	12
Sulphur (free)	mg/kg	DETSC 3049#	0.75	77	51	< 0.75	32	87	0.94	4.2	100	-	750	160	110	< 0.75	1.1	2.5	160	1.2	< 0.75
EPH (C10-C40)	mg/kg	DETSC 3311#	10	62	< 10	< 10	< 10	940	< 10	< 10	8400	-	18000	7400	8600	< 10	< 10	< 10	10000	400	< 10
Benzene	mg/kg	DETS 062#	0.01	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	0.28	-	0.02	0.13	0.16	< 0.01	< 0.01	0.32	0.67	0.01	< 0.01
Ethylbenzene	mg/kg	DETS 062#	0.01	0.01	0.01	< 0.01	< 0.01	0.04	< 0.01	0.02	7.6	-	0.95	2.7	4.9	0.12	< 0.01	0.21	6	< 0.01	< 0.01
Toluene	mg/kg	DETS 062#	0.01	0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01	0.71	-	0.08	0.03	0.46	< 0.01	< 0.01	0.87	6	< 0.01	< 0.01
Xylene	mg/kg	DETS 062#	0.01	0.03	< 0.01	< 0.01	< 0.01	0.34	< 0.01	0.04	26	-	2.2	4.3	8.3	< 0.01	< 0.01	2.8	29	0.01	< 0.01
Acenaphthene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	16	< 0.1	< 0.1	50	-	17	20	53	< 0.1	< 0.1	< 0.1	130	0.3	< 0.1
Acenaphthylene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.6	< 0.1	0.1	120	-	150	73	71	< 0.1	< 0.1	< 0.1	93	0.8	< 0.1
Anthracene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	7.7	-	21	11	43	< 0.1	< 0.1	< 0.1	87	0.4	< 0.1
Benzo(a)anthracene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.7	< 0.1	< 0.1	1.4	-	11	8.7	29	< 0.1	< 0.1	< 0.1	64	1.4	< 0.1
Benzo(a)pyrene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.2	< 0.1	< 0.1	1	-	16	8.7	25	< 0.1	< 0.1	< 0.1	47	2	< 0.1
Benzo(b)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.9	< 0.1	< 0.1	0.5	-	8.5	4.7	17	< 0.1	< 0.1	< 0.1	31	1.1	< 0.1
Benzo(k)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.1	< 0.1	< 0.1	0.3	-	4.6	2.4	9.8	< 0.1	< 0.1	< 0.1	19	0.6	< 0.1
Benzo(g,h,i)perylene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.5	< 0.1	< 0.1	0.7	-	11	5.9	11	< 0.1	< 0.1	< 0.1	17	1	< 0.1
Chrysene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.9	< 0.1	< 0.1	1.6	-	13	9.3	28	< 0.1	< 0.1	< 0.1	55	1	< 0.1
Dibenzo(a,h)anthracene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5	< 0.1	< 0.1	0.3	-	1.1	1	1.9	< 0.1	< 0.1	< 0.1	6.5	0.2	< 0.1
Fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	16	< 0.1	< 0.1	11	-	45	40	68	< 0.1	< 0.1	< 0.1	120	1.3	< 0.1
Fluorene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	14	< 0.1	< 0.1	130	-	21	18	58	< 0.1	< 0.1	< 0.1	120	0.3	< 0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.2	< 0.1	< 0.1	1.1	-	11	6.5	12	< 0.1	< 0.1	< 0.1	24	1.7	0.1
Naphthalene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.5	< 0.1	0.1	280	-	99	40	160	< 0.1	< 0.1	< 0.1	460	0.2	< 0.1
Phenanthrene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	28	< 0.1	< 0.1	21	-	45	29	100	< 0.1	< 0.1	< 0.1	230	0.3	< 0.1
Pyrene	mg/kg	DETSC 3301	0.1	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	6.9	-	51	42	62	< 0.1	< 0.1	< 0.1	96	1.1	< 0.1
PAH	mg/kg	DETSC 3301	1.6	< 1.6	< 1.6	< 1.6	< 1.6	130	< 1.6	< 1.6	640	-	530	320	750	< 1.6	< 1.6	< 1.6	1600	14	< 1.6
Catechol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	38	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cresols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	5	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.53	< 0.50	< 0.50
Naphthols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	3.1	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.1	< 0.50	< 0.50
Phenol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	8	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Resorcinol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	19	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trimethylphenol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	210	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.7	< 0.50	< 0.50
Xylenols & Ethylphenols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	32	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.3	< 0.50	< 0.50
Total Phenols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	< 0.50	< 0.50	310	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	20	< 0.50	< 0.50
Aliphatic C5-C6	mg/kg	DETSC 3321*	0.01	-	-	-	-	-	-	-	< 0.01	-	-	-	0.05	-	-	-	-	-	-
Aliphatic C6-C8	mg/kg	DETSC 3321*	0.01	-	-	-	-	-	-	-	< 0.01	-									

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
denotes deviating sample

		Lab No.	587085	583616	583615	587078	593358	593358	587079	593360	587745	593984	587080	593359	593986	588505	588506	584219	620863	620864	620865	620866	
		Sample ID	RB1	TP32	TP32	SD1	SD 1	SD 1	SD2	SD 2	SD3	SD3	SD4	SD 4	SD CULV-UP	SED3(A)	UPCUVSD	TP35	SS 11-02-1	SED 4	SS 11-02-3	RB1	
		Depth		2	2.00-2.50													0.40					
		Area AC	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
		Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL	SOIL	SOIL	
		Sampling Date	10/12/2013	02/12/2013	02/12/2013	10/12/2013	09/01/14	09/01/14	10/12/2013	09/01/14	11/12/2013	09/01/14	10/12/2013	09/01/14	09/01/14	13/12/2013	13/12/2013	03/12/2013	12/03/14	12/03/14	12/03/14	12/03/14	
		Sample horizon	Brook bank	MG	MG	Downstream		n/s	Upstream	n/s	Pond outfall	n/s	Midstream	n/s	n/s								
Test	Units	DETSxx	LOD																				
Stones >2mm	% m/m	DETSC 1003*	1	3.5	5.2	7.3	4.7	4.7	4.7	6.2	4.4	5.3	2.9	5.3	5.1	5	2.4	7.2	4.4	2.3	5	6.2	5.4
Moisture Content	%	DETS 046*	0.1	65	23	-	26	56	56	39	140	140	81	68	47	79	36	110	16	90	180	68	420
Arsenic	mg/kg	DETSC2301#	0.2	32	37	-	13	6.9	6.9	8.7	11	8.6	21	8.4	9.1	9.5	25	8.1	10	10	8	19	45
Boron (water soluble)	mg/kg	DETSC2123#	0.2	0.8	0.7	-	0.7	2.5	2.5	1.3	4	2.2	0.8	2.2	1.9	2.4	0.3	2.4	0.6	4.3	5.5	3.2	5.6
Cadmium	mg/kg	DETSC2301#	0.1	2.3	1.1	-	1.2	0.8	0.8	0.9	1.2	0.8	2.3	1.1	0.9	1.1	2.1	1.1	0.3	1.5	1	0.7	4.1
Chromium	mg/kg	DETSC2301#	0.15	20	35	-	19	18	18	16	22	31	26	24	19	23	20	24	9.7	29	28	23	11
Copper	mg/kg	DETSC2301#	0.2	14	64	-	20	20	20	18	26	19	48	23	23	24	44	25	73	30	28	21	13
Lead	mg/kg	DETSC2301#	0.3	220	300	-	1800	400	400	690	630	32	84	660	980	740	93	440	49	680	380	40	41
Mercury	mg/kg	DETSC 2325#	0.05	< 0.05	< 0.05	-	< 0.05	0.24	0.24	0.09	0.18	< 0.05	0.06	0.15	0.11	0.05	0.05	0.07	< 0.05	0.08	0.13	< 0.05	< 0.05
Nickel	mg/kg	DETSC2301#	1	19	35	-	110	25	25	19	27	28	31	22	20	23	20	23	31	28	22	15	7.6
Selenium	mg/kg	DETSC2301#	0.5	< 0.5	2.6	-	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.5	5.3	< 0.5	< 0.5	< 0.5	4.3	0.8	0.9	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	mg/kg	DETSC2301#	1	140	290	-	300	170	170	210	280	120	1400	260	270	260	1200	240	220	450	250	110	92
Loss on Ignition	%	DETSC 2003#	0.01	9.9	8.6	-	2.3	7.3	7.3	5.1	12	9.7	5.9	9.9	6.9	8	2.8	9	7.0	9.8	17	9.1	35
pH		DETSC 2008#		7.8	10.1	-	8.5	7.7	7.7	7.9	7.4	7.5	8.1	7.3	7.6	7.5	8.2	7.3	8.1	7.6	7.4	7.6	7.7
Cyanide total	mg/kg	DETSC 2130#	0.1	4.1	3.2	-	0.6	1.5	1.5	0.7	0.9	0.2	1.3	1.5	0.6	0.2	1.8	0.2	7.7	0.3	0.8	2.2	29
Cyanide free	mg/kg	DETSC 2130#	0.1	0.4	0.6	-	< 0.1	0.2	0.2	0.1	0.1	< 0.1	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	0.4	< 0.1	0.2	0.2	0.5
Cyanide complex	mg/kg	DETSC 2130	0.2	3.7	2.7	-	0.6	1.4	1.4	0.6	0.7	< 0.2	1.2	1.3	0.6	< 0.2	1.8	< 0.2	7.4	0.3	0.6	2	28
Thiocyanate	mg/kg	DETSC 2130#	0.6	< 0.6	1.1	-	< 0.6	0.7	0.7	< 0.6	2	< 0.6	< 0.6	< 0.6	1.3	1.4	< 0.6	1.2	< 0.6	1.4	0.9	0.7	1.4
Ammoniacal Nitrogen as N	mg/kg	DETSC 2119#	0.5	8.1	15	-	6.2	31	31	6	48	51	6.1	18	21	13	16	52	6.6	3.9	7.4	3.2	4.6
Chloride Aqueous Extract	mg/l	DETSC 2055	1	6.6	15	-	19	22	22	18	35	20	15	19	18	19	9.6	25	54	20	19	30	560
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	170	300	-	51	63	63	42	230	51	86	190	280	120	53	86	40	220	100	190	68
Sulphur (free)	mg/kg	DETSC 3049#	0.75	< 0.75	360	-	< 0.75	< 0.75	< 0.75	2.5	25	< 0.75	13	13	5.8	3.6	< 0.75	< 0.75	9.8	7.6	5	< 0.75	< 0.75
EPH (C10-C40)	mg/kg	DETSC 3311#	10	< 10	2000	-	< 10	290	290	190	1000	< 10	2200	2900	190	65	68	< 10	1000	20	800	< 10	620
Benzene	mg/kg	DETS 062#	0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	mg/kg	DETS 062#	0.01	< 0.01	6.1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	mg/kg	DETS 062#	0.01	< 0.01	0.55	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	mg/kg	DETS 062#	0.01	< 0.01	14	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	mg/kg	DETSC 3301	0.1	< 0.1	83	-	< 0.1	< 0.1	< 0.1	< 0.1	3.2	< 0.1	1.5	6.8	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	6.2	< 0.1	1
Acenaphthylene	mg/kg	DETSC 3301	0.1	< 0.1	17	-	< 0.1	1	1	0.6	4.3	< 0.1	4.9	14	0.8	0.1	< 0.1	< 0.1	< 0.1	< 0.1	4.1	< 0.1	< 0.1
Anthracene	mg/kg	DETSC 3301	0.1	< 0.1	30	-	< 0.1	< 0.1	< 0.1	0.3	4.1	< 0.1	3.3	28	0.9	0.1	< 0.1	< 0.1	< 0.1	< 0.1	8.5	< 0.1	1
Benzo(a)anthracene	mg/kg	DETSC 3301	0.1	< 0.1	11	-	< 0.1	1.4	1.4	0.9	5.8	< 0.1	14	27	0.8	0.4	< 0.1	< 0.1	< 0.1	< 0.1	6.1	0.7	< 0.1
Benzo(a)pyrene	mg/kg	DETSC 3301	0.1	< 0.1	13	-	< 0.1	1.4	1.4	0.9	6	< 0.1	14	21	0.9	0.3	< 0.1	< 0.1	< 0.1	< 0.1	4.6	0.2	1.3
Benzo(b)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	6.9	-	< 0.1	1.1	1.1	0.8	3.8	< 0.1	9.1	14	1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	2.8	< 0.1	2.9
Benzo(k)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	3.9	-	< 0.1	0.7	0.7	0.5	2.9	< 0.1	6.7	9.3	0.4	0.3	< 0.1	< 0.1	< 0.1	< 0.1	2.4	0.2	2.2
Benzo(g,h,i)perylene	mg/kg	DETSC 3301	0.1	< 0.1	17	-	< 0.1	0.6	0.6	0.3	2	< 0.1	9	9.3	< 0.1	1.3	< 0.1	< 0.1	< 0.1	< 0.1	1.7	< 0.1	< 0.1
Chrysene	mg/kg	DETSC 3301	0.1	< 0.1	12	-	< 0.1	1.1	1.1	0.8	4	< 0.1	14	24	0.8	0.4	< 0.1	< 0.1	< 0.1	< 0.1	5.9	0.3	< 0.1
Dibenzo(a,h)anthracene	mg/kg	DETSC 3301	0.1	< 0.1	0.4	-	< 0.1	0.6	0.6	0.3	1.2	< 0.1	1.7	2.7	< 0.1	0.8	< 0.1	< 0.1	< 0.1	< 0.1	0.6	0.1	< 0.1
Fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1	70	-	< 0.1	2.5	2.5	1.6	9.7	< 0.1	19	55	2.4	0.9	< 0.1	< 0.1	< 0.1	< 0.1	16	0.2	2.2
Fluorene	mg/kg	DETSC 3301	0.1	< 0.1	34	-	< 0.1	< 0.1	< 0.1	< 0.1	3.5	< 0.1	3.8	13	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	6.5	< 0.1	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	DETSC 3301	0.1	< 0.1	9.5	-	< 0.1	1.3	1.3	1	4.4	< 0.1	8.1	11	0.6	0.6	< 0.1	< 0.1	< 0.1	< 0.1	2.5	< 0.1	0.7
Naphthalene	mg/kg	DETSC 3301	0.1	< 0.1	67	-	< 0.1	< 0.1	< 0.1	0.2	0.4	< 0.1	1.9	5.7	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.6	< 0.1	< 0.1
Phenanthrene	mg/kg	DETSC 3301	0.1	< 0.1	120	-	< 0.1	< 0.1	< 0.1	0.4	7.8	< 0.1	3.4	56	2.4	0.1	< 0.1	< 0.1	< 0.1	< 0.1	18	< 0.1	< 0.1
Pyrene	mg/kg	DETSC 3301	0.1	< 0.1	88	-	< 0.1	2	2	1.3	7.8	< 0.1	18	47	1.8	0.6	< 0.1	< 0.1	< 0.1	< 0.1	12	0.2	0.6
PAH	mg/kg	DETSC 3301	1.6	< 1.6	590	-	< 1.6	14	14	10	71	< 1.6	130	340	14	6.3	< 1.6	< 1.6	< 1.6	< 1.6	100	2	12
Catechol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cresols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthols	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Resorcinol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trimethylphenol	mg/kg	DETSC 3421*	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	<														

			Lab No.	587744
			Sample ID	OX-BSD
			Depth	
			Sample Ref	
			Sample Type	SOIL
			Sampling Date	11/12/2013
			Ocboc lake sediment	
Test	Units	DETSxx	LOD	
Stones >2mm	% m/m	DETSC 1003*	1	2.8
Moisture Content	%	DETS 046*	0.1	240
Arsenic	mg/kg	DETSC2301#	0.2	12
Boron (water soluble)	mg/kg	DETSC2123#	0.2	3.1
Cadmium	mg/kg	DETSC2301#	0.1	8.7
Chromium	mg/kg	DETSC2301#	0.15	37
Copper	mg/kg	DETSC2301#	0.2	43
Lead	mg/kg	DETSC2301#	0.3	690
Mercury	mg/kg	DETSC 2325#	0.05	0.2
Nickel	mg/kg	DETSC2301#	1	31
Selenium	mg/kg	DETSC2301#	0.5	0.6
Zinc	mg/kg	DETSC2301#	1	1300
Loss on ignition	%	DETSC 2003#	0.01	12
pH		DETSC 2008#		8
Cyanide total	mg/kg	DETSC 2130#	0.1	1.1
Cyanide free	mg/kg	DETSC 2130#	0.1	0.2
Cyanide complex	mg/kg	DETSC 2130	0.2	0.9
Thiocyanate	mg/kg	DETSC 2130#	0.6	6.5
Ammoniacal Nitrogen as N	mg/kg	DETSC 2119#	0.5	66
Chloride Aqueous Extract	mg/l	DETSC 2055	1	48
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	670
Sulphur (free)	mg/kg	DETSC 3049#	0.75	59
EPH (C10-C40)	mg/kg	DETSC 3311#	10	< 10
Benzene	mg/kg	DETS 062#	0.01	< 0.01
Ethylbenzene	mg/kg	DETS 062#	0.01	< 0.01
Toluene	mg/kg	DETS 062#	0.01	< 0.01
Xylene	mg/kg	DETS 062#	0.01	< 0.01
Acenaphthene	mg/kg	DETSC 3301	0.1	< 0.1
Acenaphthylene	mg/kg	DETSC 3301	0.1	< 0.1
Anthracene	mg/kg	DETSC 3301	0.1	< 0.1
Benzo(a)anthracene	mg/kg	DETSC 3301	0.1	< 0.1
Benzo(a)pyrene	mg/kg	DETSC 3301	0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1
Benzo(g,h,i)perylene	mg/kg	DETSC 3301	0.1	< 0.1
Chrysene	mg/kg	DETSC 3301	0.1	< 0.1
Dibenzo(a,h)anthracene	mg/kg	DETSC 3301	0.1	< 0.1
Fluoranthene	mg/kg	DETSC 3301	0.1	< 0.1
Fluorene	mg/kg	DETSC 3301	0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	DETSC 3301	0.1	< 0.1
Naphthalene	mg/kg	DETSC 3301	0.1	< 0.1
Phenanthrene	mg/kg	DETSC 3301	0.1	< 0.1
Pyrene	mg/kg	DETSC 3301	0.1	< 0.1
PAH	mg/kg	DETSC 3301	1.6	< 1.6
Catechol	mg/kg	DETSC 3421*	0.5	< 0.50
Cresols	mg/kg	DETSC 3421*	0.5	< 0.50
Naphthols	mg/kg	DETSC 3421*	0.5	< 0.50
Phenol	mg/kg	DETSC 3421*	0.5	< 0.50
Resorcinol	mg/kg	DETSC 3421*	0.5	< 0.50
Trimethylphenol	mg/kg	DETSC 3421*	0.5	< 0.50
Xylenols & Ethylphenols	mg/kg	DETSC 3421*	0.5	< 0.50
Total Phenols	mg/kg	DETSC 3421*	0.5	< 0.50
Total Mass% Asbestos (i+ii)	Mass %			
Quantification by Phase Contrast Optical	Mass %	DETSC 1102		
Gravimetric Quantification (ii)	Mass %	DETSC 1102		
Breakdown of Gravimetric Analysis				
Mass of Sample	g			
ACMs present*				
Mass of ACM in sample	g			
% ACM by mass	%			
% asbestos in ACM	%			
% asbestos in sample	%			
Potentially Respirable Fibres	Fibres/g	DETSC 1102		

	Lab No		587742	593938	587743	593939	593940	587746	593942	587747	593941	587341	593937
	Sample ID		BH3	BH3	BH5	BH5	MW11-02	MW11-16	MW11-16	MW99-104	MW99-104	MW99-106	MW99-106
	Area AC		1	1	1	1	1	1	1	1	1	1	1
	Other ID		Clay/gravel	Clay/gravel	silt, clay, gravel	silt,clay, gravel	MG/Clay/Sand	Clay/Sand		Clay/sand	clay/sand	Gravel	Gravel
	Sample Type		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Sampling Date		11/12/2013	10/01/14	11/12/2013	10/01/14	10/01/14	11/12/2013	10/01/14	11/12/2013	10/01/14	12/12/2013	10/01/14
Sampling Time	Screening Value			n/s		n/s	n/s		n/s		n/s		n/s
Test	Units	EQS											
Arsenic, Dissolved	ug/l	50	2.2	2.5	6.3	0.43	2.4	1.1	1.2	2.1	2.9	6.8	11
Cadmium, Dissolved	ug/l	0.08	0.17	0.073	0.7	0.07	0.14	0.23	0.074	0.069	< 0.030	0.041	< 0.030
Chromium, Dissolved	ug/l	4.7	< 0.25	0.3	1.4	< 0.25	7.4	4.6	6.5	< 0.25	0.43	0.81	1
Copper, Dissolved	ug/l	1	2.2	2.5	4.7	1.5	8.8	3.9	4.2	0.89	1.5	2.6	1.3
Iron, Dissolved	ug/l	1000	180	200	1900	200	2600	180	220	250	1100	710	580
Lead, Dissolved	ug/l	7.2	0.97	0.82	27	0.24	9.7	1.1	1.2	0.73	0.39	2.7	0.42
Mercury, Dissolved	ug/l	0.05	< 0.010	0.01	< 0.010	< 0.01	< 0.01	< 0.010	< 0.01	< 0.010	< 0.01	< 0.010	< 0.01
Nickel, Dissolved	ug/l	20	4.2	3	8.1	5.3	2.5	2.3	1.9	4.3	1.9	1.1	0.76
Selenium, Dissolved	ug/l		0.89	2	0.39	10	3.3	1.9	2.4	0.35	0.47	0.53	0.41
Zinc, Dissolved	ug/l	8	47.6	28.2	45.7	28.1	30.9	66.8	115	27.1	41.1	28.9	22.2
Calcium	ug/l		-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/l		-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/l		-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/l		-	-	-	-	-	-	-	-	-	-	-
Iron (Total)	ug/l		-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/l		-	-	-	-	-	-	-	-	-	-	-
Conductivity	uS/cm		1670	1520	1350	992	1080	1490	1150	1550	1800	1600	1670
pH		ph6-ph9	7	7.2	6.2	7	7.3	6.9	7.3	6.9	7	7.9	7.7
Cyanide total	ug/l	1	260	200	230	180	1100	250	140	310	390	130	140
Cyanide free	ug/l	1	< 20	< 20	< 20	< 20	58	< 20	< 20	< 20	< 20	< 20	< 20
Cyanide complex	ug/l		260	200	230	180	1100	250	140	310	390	130	140
Thiocyanate	ug/l		250	32000	1200	210	95	< 40	270	4000	18000	64	< 40
Total Dissolved Solids	ug/l		-	-	-	-	-	-	-	-	-	-	-
Suspended Solids	mg/l		12000	6300	8400	1200	2500	33000	6300	1600	400	140	76
Ammoniacal Nitrogen as N	mg/l	17	46	77	34	30	4.6	0.61	23	70	49	120	74
Total Nitrogen as N	ug/l		-	-	-	-	-	-	-	-	-	-	-
Nitrate	ug/l		-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/l	250	24	23	13	15	10	20	18	23	29	38	30
Sulphate as SO4	mg/l	400	420	370	450	220	290	380	210	330	520	87	140
Sulphide	ug/l		11	< 10.0	< 10	< 10.0	< 10.0	< 10	< 10.0	< 10	< 10.0	13	< 10.0
Sulphur (free)	ug/l		< 84	100	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	120
Total Organic Carbon	mg/l		76	72	78	15	28	190	80	31	24	33	31
TPH	ug/l		-	-	-	-	-	-	-	-	-	-	-
EPH (C10-C40)	ug/l		730	430	2100	280	490	720	490	600	370	2300	3700
Benzene	ug/l	10	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4
Toluene	ug/l	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
Ethylbenzene	ug/l	20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m/p Xylenes	ug/l	30	-	-	-	-	-	-	-	-	-	-	-
o Xylene	ug/l	30	-	-	-	-	-	-	-	-	-	-	-
Xylene	ug/l	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13
MTBE	ug/l	10	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/l		< 0.01	0.03	0.01	< 0.01	0.05	< 0.01	0.07	< 0.01	0.04	0.13	9
Acenaphthylene	ug/l		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	0.1	< 0.01	< 0.01	0.03	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.04	< 0.01	0.33
Benzo(a)anthracene	ug/l		< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04
Benzo(a)pyrene	ug/l	0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03
Benzo(b)fluoranthene	ug/l	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	ug/l	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	ug/l		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	0.1	< 0.01	0.01	0.02	< 0.01	0.03	< 0.01	< 0.01	< 0.01	0.04	0.02	0.32
Fluorene	ug/l		< 0.01	0.02	0.03	< 0.01	0.02	< 0.01	0.02	< 0.01	0.05	0.02	0.88
Indeno(1,2,3-c,d)pyrene	ug/l	0.002	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	ug/l	2.4	0.02	0.03	0.06	< 0.01	0.08	0.04	0.07	0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l		0.01	0.03	0.06	< 0.01	0.04	< 0.01	< 0.01	0.03	0.11	< 0.01	0.69
Pyrene	ug/l		< 0.01	< 0.01	0.03	< 0.01	0.04	< 0.01	< 0.01	0.02	0.05	0.04	0.27
PAH	ug/l		< 0.20	< 0.20	0.26	< 0.20	0.35	< 0.20	< 0.20	< 0.20	0.34	0.22	12
Catechol	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	33	3.6
Cresols	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	29	57
Naphthols	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	6.9	16
Phenol	ug/l	7.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	23	59
Resorcinol	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.75	< 0.10
Dimethylphenols	ug/l		-	-	-	-	-	-	-	-	-	-	-
Trimethylphenol	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	22	46
Xylenols & Ethylphenols	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	22	28
Total Phenols	ug/l		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	140	210

	Lab No	587336	593290	587337	592963	587332	593990	593991	593988	593989	587334	593987
	Sample ID	BH1	BH1	BH2	BH2	MW11-05	MW11-05	MW11-05D	MW11-07	MW11-07D	MW11-08B	MW11-08B
	Area AC	2	2	2	2	2	2	2	2	2	2	2
	Other ID	silt/sand	silt/sand	silt/gravel	sil/gravel	MG - Gravel	MG gravel		MG/clay		MG/Clay	MG/clay
	Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Sampling Date	12/12/2013	08/01/14	12/12/2013	07/01/14	12/12/2013	09/01/14	09/01/14	09/01/14	09/01/14	12/12/2013	09/01/14
Sampling Time			n/s		n/s		n/s	n/s	n/s	n/s		n/s
Test	Units											
Arsenic, Dissolved	ug/l	4.2	1.6	4.6	3.9	1.2	0.77	0.63	2.9	2.3	15	7.9
Cadmium, Dissolved	ug/l	0.041	0.22	< 0.030	< 0.030	0.067	0.11	0.04	< 0.03	0.04	0.098	< 0.03
Chromium, Dissolved	ug/l	0.83	< 0.25	0.48	0.99	< 0.25	< 0.25	< 0.25	< 0.25	0.33	0.92	0.41
Copper, Dissolved	ug/l	3.8	2	1.8	1.5	0.59	0.9	0.4	1.6	1.8	3.6	1.4
Iron, Dissolved	ug/l	530	71	290	260	1400	70	120	67	81	7200	780
Lead, Dissolved	ug/l	4.8	0.24	2.7	0.91	0.75	0.35	0.15	0.37	0.64	0.48	0.95
Mercury, Dissolved	ug/l	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	0.01
Nickel, Dissolved	ug/l	3.5	4.1	3.8	4.3	3.7	5.4	3.9	6.4	6.6	9	7.6
Selenium, Dissolved	ug/l	0.35	0.81	< 0.25	4.5	< 0.25	0.31	0.86	1.1	1.1	< 0.25	0.63
Zinc, Dissolved	ug/l	45.5	161	35.7	48.5	28.8	20.4	35.7	19.1	30	50.6	44.5
Calcium	ug/l	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/l	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/l	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/l	-	-	-	-	-	-	-	-	-	-	-
Iron (Total)	ug/l	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/l	-	-	-	-	-	-	-	-	-	-	-
Conductivity	uS/cm	646	455	623	495	2290	567	2070	268	268	998	833
pH		7.8	8.1	7.5	7.8	7.6	7.5	7.3	7.6	7.7	6.9	7.2
Cyanide total	ug/l	240	43	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Cyanide free	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Cyanide complex	ug/l	240	43	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Thiocyanate	ug/l	58	< 40	40	< 40	240	91	90	< 40	< 40	< 40	< 40
Total Dissolved Solids	ug/l	-	-	-	-	-	-	-	-	-	-	-
Suspended Solids	mg/l	44000	8600	88000	9300	610	2100	1100	660	820	1400	3500
Ammoniacal Nitrogen as N	mg/l	2.1	0.3	1.4	2.7	6.4	3.5	5.8	0.46	0.39	13	1.5
Total Nitrogen as N	ug/l	-	-	-	-	-	-	-	-	-	-	-
Nitrate	ug/l	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/l	36	43	30	31	140	130	140	11	9.9	65	44
Sulphate as SO4	mg/l	110	100	60	98	930	890	970	9.8	9.7	9	63
Sulphide	ug/l	< 10	< 10.0	< 10	< 10.0	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10.0
Sulphur (free)	ug/l	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84
Total Organic Carbon	mg/l	790	36	670	89	15	8.5	6.1	23	33	91	150
TPH	ug/l	-	-	-	-	-	-	-	-	-	-	-
EPH (C10-C40)	ug/l	19000	3300	2500	1200	220	250	250	1000	510	300000	380000000
Benzene	ug/l	< 1.0	< 1.0	2.5	1.6	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	14
Toluene	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7
Ethylbenzene	ug/l	6.7	< 1.0	4.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	47
m/p Xylenes	ug/l	-	-	-	-	-	-	-	-	-	-	-
o Xylene	ug/l	-	-	-	-	-	-	-	-	-	-	-
Xylene	ug/l	4.7	< 1.0	11	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	15	74
MTBE	ug/l	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/l	0.04	< 0.01	0.15	1.6	< 0.01	0.04	< 0.01	0.87	0.89	24	980
Acenaphthylene	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	0.08	0.01	0.03	0.02	0.03	0.23	0.28	1.3	0.64	5.1	660
Benzo(a)anthracene	ug/l	0.07	0.01	0.02	< 0.01	< 0.01	0.02	0.02	0.3	0.25	1.3	160
Benzo(a)pyrene	ug/l	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.24	0.2	0.49	67
Benzo(b)fluoranthene	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.18	0.13	0.39	49
Benzo(k)fluoranthene	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.08	0.09	0.3	28
Benzo(g,h,i)perylene	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.15	0.12	0.17	32
Chrysene	ug/l	0.13	< 0.01	0.15	< 0.01	< 0.01	< 0.01	< 0.01	0.17	0.14	0.29	25
Dibenzo(a,h)anthracene	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.17	< 0.01
Fluoranthene	ug/l	0.14	0.09	0.04	0.02	0.15	0.28	0.22	1.8	1.4	3	520
Fluorene	ug/l	0.14	0.02	0.07	0.19	0.02	0.21	0.14	0.94	0.6	110	640
Indeno(1,2,3-c,d)pyrene	ug/l	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.19	0.2	0.41	68
Naphthalene	ug/l	< 0.01	< 0.01	0.38	0.04	0.38	0.32	0.21	0.31	0.05	45	4400
Phenanthrene	ug/l	0.04	< 0.01	0.09	< 0.01	0.02	0.23	0.28	0.13	0.05	13	1600
Pyrene	ug/l	0.09	0.05	0.03	< 0.01	0.2	0.33	0.23	1.7	1.6	3.6	470
PAH	ug/l	0.78	< 0.20	0.98	1.8	0.8	1.7	1.4	8.3	6.4	110	9700
Catechol	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthols	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	ug/l	1.6	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dimethylphenols	ug/l	-	-	-	-	-	-	-	-	-	-	-
Trimethylphenol	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Xylenols & Ethylphenols	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Phenols	ug/l	1.6	< 0.10	< 0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10

		Lab No	587335	592962
		Sample ID	MW99-202	MW99-202
		Area AC	4	4
		Other ID	MG/Clay	MG/clay
		Sample Type	WATER	WATER
		Sampling Date	12/12/2013	07/01/14
		Sampling Time		n/s
Test	LOD	Units		
Arsenic, Dissolved	0.16	ug/l	12	63
Cadmium, Dissolved	0.03	ug/l	4.3	3.3
Chromium, Dissolved	0.25	ug/l	190	310
Copper, Dissolved	0.4	ug/l	550	890
Iron, Dissolved	5.5	ug/l	120000	160000
Lead, Dissolved	0.09	ug/l	14	25
Mercury, Dissolved	0.01	ug/l	< 0.010	< 0.010
Nickel, Dissolved	0.5	ug/l	270	260
Selenium, Dissolved	0.25	ug/l	6	8.6
Zinc, Dissolved	1.25	ug/l	3090	3480
Calcium		ug/l	-	-
Magnesium		ug/l	-	-
Sodium		ug/l	-	-
Potassium		ug/l	-	-
Iron (Total)		ug/l	-	-
Manganese		ug/l	-	-
Conductivity	1	uS/cm	3760	6610
pH			2.7	2.3
Cyanide total	40	ug/l	< 40	93
Cyanide free	20	ug/l	< 20	< 20
Cyanide complex	40	ug/l	< 40	93
Thiocyanate	40	ug/l	91	210
Total Dissolved Solids		ug/l	-	-
Suspended Solids	5	mg/l	3500	1800
Ammoniacal Nitrogen as N	0.015	mg/l	7.7	5.1
Total Nitrogen as N		ug/l	-	-
Nitrate		ug/l	-	-
Chloride	0.1	mg/l	15	15
Sulphate as SO4	0.1	mg/l	2400	2500
Sulphide	10	ug/l	< 10	< 10.0
Sulphur (free)	84	ug/l	< 84	< 84
Total Organic Carbon	2	mg/l	43	49
TPH		ug/l	-	-
EPH (C10-C40)	10	ug/l	440	570
Benzene	1	ug/l	< 1.0	< 1.0
Toluene	1	ug/l	< 1.0	< 1.0
Ethylbenzene	1	ug/l	< 1.0	< 1.0
m/p Xylenes		ug/l	-	-
o Xylene		ug/l	-	-
Xylene	1	ug/l	< 1.0	< 1.0
MTBE		ug/l	-	-
Acenaphthene	0.01	ug/l	< 0.01	< 0.01
Acenaphthylene	0.01	ug/l	< 0.01	< 0.01
Anthracene	0.01	ug/l	< 0.01	< 0.01
Benzo(a)anthracene	0.01	ug/l	< 0.01	< 0.01
Benzo(a)pyrene	0.01	ug/l	< 0.01	< 0.01
Benzo(b)fluoranthene	0.01	ug/l	< 0.01	< 0.01
Benzo(k)fluoranthene	0.01	ug/l	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.01	ug/l	< 0.01	< 0.01
Chrysene	0.01	ug/l	< 0.01	< 0.01
Dibenzo(a,h)anthracene	0.01	ug/l	< 0.01	< 0.01
Fluoranthene	0.01	ug/l	0.02	< 0.01
Fluorene	0.01	ug/l	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	< 0.01	< 0.01
Naphthalene	0.01	ug/l	0.02	< 0.01
Phenanthrene	0.01	ug/l	0.02	< 0.01
Pyrene	0.01	ug/l	0.04	< 0.01
PAH	0.2	ug/l	< 0.20	< 0.20
Catechol	0.1	ug/l	< 0.10	< 0.10
Cresols	0.1	ug/l	< 0.10	< 0.10
Naphthols	0.1	ug/l	< 0.10	< 0.10
Phenol	0.1	ug/l	1.9	< 0.10
Resorcinol	0.1	ug/l	< 0.10	< 0.10
Dimethylphenols		ug/l	-	-
Trimethylphenol	0.1	ug/l	< 0.10	< 0.10
Xylenols & Ethylphenols	0.1	ug/l	< 0.10	< 0.10
Total Phenols	0.1	ug/l	1.9	< 0.10

		Lab No	586401	595060	595061	586400	595053	595054	586399	595055	595056	595062
		Sample ID	SS11-05-1	SS11-05-1	SS11-05-1D	SS11-06-1	SS11-06-1	SS11-06-1D	SS11-07-1	SS11-07-1	SS11-07-1D	SW1
		Area AC	1	1	1	1	1	1	1	1	1	1
		Other ID										
		Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sampling Date	09/12/2013	09/01/14	09/01/14	09/12/2013	09/01/14	09/01/14	09/12/2013	09/01/14	09/01/14	09/01/14
		Sampling Time		n/s	n/s		n/s	n/s		n/s	n/s	n/s
Test	LOD	Units										
Arsenic, Dissolved	0.16	ug/l	0.91	0.69	0.59	0.85	1.2	1.2	0.98	0.68	0.76	0.95
Cadmium, Dissolved	0.03	ug/l	0.032	0.13	0.12	0.042	< 0.03	< 0.03	0.080	0.06	0.07	0.07
Chromium, Dissolved	0.25	ug/l	< 0.25	0.39	0.39	< 0.25	7.4	7.0	< 0.25	6.4	6.7	6.0
Copper, Dissolved	0.4	ug/l	1.1	1.9	2.6	2.5	3.5	3.1	3.6	5.5	5.7	3.3
Iron, Dissolved	5.5	ug/l	34	43	65	140	190	140	220	230	280	210
Lead, Dissolved	0.09	ug/l	0.37	0.42	0.55	0.72	0.83	0.38	0.26	0.33	0.58	0.41
Mercury, Dissolved	0.01	ug/l	< 0.010	< 0.01	< 0.01	< 0.010	< 0.01	< 0.01	< 0.010	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	0.5	ug/l	1.4	1.1	1.2	2.2	1.2	1.1	3.8	3.0	3.1	1.5
Selenium, Dissolved	0.25	ug/l	< 0.25	0.72	0.59	< 0.25	0.58	0.56	0.35	0.61	0.74	0.41
Zinc, Dissolved	1.25	ug/l	30.8	70.9	115	49.7	36.6	44.1	37.3	32.0	55.1	79.0
Calcium		ug/l	-	-	-	-	-	-	-	-	-	-
Magnesium		ug/l	-	-	-	-	-	-	-	-	-	-
Sodium		ug/l	-	-	-	-	-	-	-	-	-	-
Potassium		ug/l	-	-	-	-	-	-	-	-	-	-
Iron (Total)		ug/l	-	-	-	-	-	-	-	-	-	-
Manganese		ug/l	-	-	-	-	-	-	-	-	-	-
Conductivity	1	uS/cm	668	476	484	806	704	699	1400	1180	1190	659
pH			7.3	7.2	7.2	7.6	7.6	7.5	7.2	7.4	7.2	7.4
Cyanide total	40	ug/l	< 40	< 40	< 40	130	110	110	250	230	240	90
Cyanide free	20	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Cyanide complex	40	ug/l	< 40	< 40	< 40	130	110	110	250	230	240	90
Thiocyanate	40	ug/l	< 40	64	45	< 40	< 40	570	< 40	< 40	48	< 40
Total Dissolved Solids		ug/l	-	-	-	-	-	-	-	-	-	-
Suspended Solids	5	mg/l	130	100	68	540	450	440	90	280	300	1300
Ammoniacal Nitrogen as N	0.015	mg/l	1.1	0.19	0.16	1.6	< 0.015	0.015	14	1.9	3.0	0.094
Total Nitrogen as N		ug/l	-	-	-	-	-	-	-	-	-	-
Nitrate		ug/l	-	-	-	-	-	-	-	-	-	-
Chloride	0.1	mg/l	8.6	28	28	5.1	20	22	4.6	35	35	23
Sulphate as SO4	0.1	mg/l	15	43	45	42	130	140	84	340	350	110
Sulphide	10	ug/l	< 10	< 10.0	12	< 10	< 10.0	15	< 10	11	< 10.0	11
Sulphur (free)	84	ug/l	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84	< 84
Total Organic Carbon	2	mg/l	8.1	9.7	8.3	34	20	29	18	30	31	48
TPH		ug/l	-	-	-	-	-	-	-	-	-	-
EPH (C10-C40)	10	ug/l	250	220	290	150	280	320	550	390	350	2500
Benzene	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m/p Xylenes		ug/l	-	-	-	-	-	-	-	-	-	-
o Xylene		ug/l	-	-	-	-	-	-	-	-	-	-
Xylene	1	ug/l	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE		ug/l	-	-	-	-	-	-	-	-	-	-
Acenaphthene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Acenaphthylene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Benzo(a)anthracene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	0.02	0.04	< 0.01
Benzo(a)pyrene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	0.01	ug/l	< 0.01	< 0.01	0.02	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	0.01	ug/l	< 0.01	0.01	0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01	0.05	< 0.01
Phenanthrene	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.07	0.03
Pyrene	0.01	ug/l	< 0.01	< 0.01	0.01	< 0.01	0.02	0.01	< 0.01	< 0.01	0.01	< 0.01
PAH	0.2	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.24	< 0.20
Catechol	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthols	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dimethylphenols		ug/l	-	-	-	-	-	-	-	-	-	-
Trimethylphenol	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Xylenols & Ethylphenols	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Phenols	0.1	ug/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

		Lab No	593935	586402
		Sample ID	GP1	SS11-09-1
		Area AC	2	2
		Other ID		
		Sample Type	WATER	WATER
		Sampling Date	10/01/14	09/12/2013
		Sampling Time	n/s	
Test	LOD	Units		
Arsenic, Dissolved	0.16	ug/l	1.1	1.4
Cadmium, Dissolved	0.03	ug/l	< 0.030	0.040
Chromium, Dissolved	0.25	ug/l	0.63	< 0.25
Copper, Dissolved	0.4	ug/l	1.8	1.4
Iron, Dissolved	5.5	ug/l	190	36
Lead, Dissolved	0.09	ug/l	2.8	0.44
Mercury, Dissolved	0.01	ug/l	< 0.01	< 0.010
Nickel, Dissolved	0.5	ug/l	1.2	1.4
Selenium, Dissolved	0.25	ug/l	< 0.25	0.33
Zinc, Dissolved	1.25	ug/l	36.1	40.6
Calcium		ug/l	-	-
Magnesium		ug/l	-	-
Sodium		ug/l	-	-
Potassium		ug/l	-	-
Iron (Total)		ug/l	-	-
Manganese		ug/l	-	-
Conductivity	1	uS/cm	387	641
pH			7.2	7.6
Cyanide total	40	ug/l	< 40	< 40
Cyanide free	20	ug/l	< 20	< 20
Cyanide complex	40	ug/l	< 40	< 40
Thiocyanate	40	ug/l	< 40	< 40
Total Dissolved Solids		ug/l	-	-
Suspended Solids	5	mg/l	35000	88
Ammoniacal Nitrogen as N	0.015	mg/l	28	0.42
Total Nitrogen as N		ug/l	-	-
Nitrate		ug/l	-	-
Chloride	0.1	mg/l	27	12
Sulphate as SO4	0.1	mg/l	2.6	11
Sulphide	10	ug/l	< 10.0	< 10
Sulphur (free)	84	ug/l	< 90.0	< 84
Total Organic Carbon	2	mg/l	250	11
TPH		ug/l	-	-
EPH (C10-C40)	10	ug/l	42000	11000
Benzene	1	ug/l	< 1.0	< 1.0
Toluene	1	ug/l	< 1.0	< 1.0
Ethylbenzene	1	ug/l	< 1.0	< 1.0
m/p Xylenes		ug/l	-	-
o Xylene		ug/l	-	-
Xylene	1	ug/l	< 1.0	< 1.0
MTBE		ug/l	-	-
Acenaphthene	0.01	ug/l	< 0.01	2.4
Acenaphthylene	0.01	ug/l	< 0.01	< 0.01
Anthracene	0.01	ug/l	< 0.01	2.7
Benzo(a)anthracene	0.01	ug/l	0.02	0.67
Benzo(a)pyrene	0.01	ug/l	0.06	0.50
Benzo(b)fluoranthene	0.01	ug/l	0.03	0.64
Benzo(k)fluoranthene	0.01	ug/l	0.02	0.29
Benzo(g,h,i)perylene	0.01	ug/l	0.01	0.27
Chrysene	0.01	ug/l	< 0.01	0.31
Dibenzo(a,h)anthracene	0.01	ug/l	< 0.01	0.27
Fluoranthene	0.01	ug/l	0.02	2.9
Fluorene	0.01	ug/l	< 0.01	4.9
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	0.09	0.52
Naphthalene	0.01	ug/l	< 0.01	3.7
Phenanthrene	0.01	ug/l	< 0.01	1.1
Pyrene	0.01	ug/l	0.06	2.6
PAH	0.2	ug/l	0.37	24
Catechol	0.1	ug/l	< 0.10	< 0.10
Cresols	0.1	ug/l	< 0.10	< 0.10
Naphthols	0.1	ug/l	< 0.10	< 0.10
Phenol	0.1	ug/l	< 0.10	< 0.10
Resorcinol	0.1	ug/l	< 0.10	< 0.10
Dimethylphenols		ug/l	-	-
Trimethylphenol	0.1	ug/l	< 0.10	< 0.10
Xylenols & Ethylphenols	0.1	ug/l	< 0.10	< 0.10
Total Phenols	0.1	ug/l	< 0.10	< 0.10

		Lab No	587738	588503	593983
		Sample ID	SS1103-1	SS11-03-1	SS11-03-1
		Area AC	3	3	3
		Other ID			
		Sample Type	WATER	WATER	WATER
		Sampling Date	11/12/2013	13/12/2013	09/01/14
		Sampling Time			n/s
Test	LOD	Units			
Arsenic, Dissolved	0.16	ug/l	0.67	0.73	0.93
Cadmium, Dissolved	0.03	ug/l	0.058	0.056	0.10
Chromium, Dissolved	0.25	ug/l	1.9	0.41	5.3
Copper, Dissolved	0.4	ug/l	1.4	2.2	3.6
Iron, Dissolved	5.5	ug/l	210	21	100
Lead, Dissolved	0.09	ug/l	1.4	0.28	0.79
Mercury, Dissolved	0.01	ug/l	< 0.010	< 0.010	< 0.01
Nickel, Dissolved	0.5	ug/l	< 0.50	2.6	1.1
Selenium, Dissolved	0.25	ug/l	0.60	0.45	0.87
Zinc, Dissolved	1.25	ug/l	67.1	49.0	142
Calcium		ug/l	-	-	-
Magnesium		ug/l	-	-	-
Sodium		ug/l	-	-	-
Potassium		ug/l	-	-	-
Iron (Total)		ug/l	-	-	-
Manganese		ug/l	-	-	-
Conductivity	1	uS/cm	469	434	369
pH			7.3	7.5	7.6
Cyanide total	40	ug/l	< 40	< 40	< 40
Cyanide free	20	ug/l	< 20	< 20	< 20
Cyanide complex	40	ug/l	< 40	< 40	< 40
Thiocyanate	40	ug/l	< 40	< 40	< 40
Total Dissolved Solids		ug/l	-	-	-
Suspended Solids	5	mg/l	10000	140	33
Ammoniacal Nitrogen as N	0.015	mg/l	1.6	0.27	0.057
Total Nitrogen as N		ug/l	-	-	-
Nitrate		ug/l	-	-	-
Chloride	0.1	mg/l	16	15	20
Sulphate as SO4	0.1	mg/l	26	32	26
Sulphide	10	ug/l	< 10	< 10	< 10.0
Sulphur (free)	84	ug/l	< 84	< 84	< 84
Total Organic Carbon	2	mg/l	110	16	4.5
TPH		ug/l	-	-	-
EPH (C10-C40)	10	ug/l	1900	1200	260
Benzene	1	ug/l	< 1.0	< 1.0	< 1.0
Toluene	1	ug/l	< 1.0	< 1.0	< 1.0
Ethylbenzene	1	ug/l	< 1.0	< 1.0	< 1.0
m/p Xylenes		ug/l	-	-	-
o Xylene		ug/l	-	-	-
Xylene	1	ug/l	< 1.0	< 1.0	< 1.0
MTBE		ug/l	-	-	-
Acenaphthene	0.01	ug/l	< 0.01	< 0.01	0.01
Acenaphthylene	0.01	ug/l	< 0.01	< 0.01	< 0.01
Anthracene	0.01	ug/l	0.01	< 0.01	< 0.01
Benzo(a)anthracene	0.01	ug/l	0.21	0.22	< 0.01
Benzo(a)pyrene	0.01	ug/l	0.17	0.30	< 0.01
Benzo(b)fluoranthene	0.01	ug/l	0.14	0.19	< 0.01
Benzo(k)fluoranthene	0.01	ug/l	0.10	0.22	< 0.01
Benzo(g,h,i)perylene	0.01	ug/l	0.16	0.27	< 0.01
Chrysene	0.01	ug/l	0.09	0.13	< 0.01
Dibenzo(a,h)anthracene	0.01	ug/l	0.05	< 0.01	< 0.01
Fluoranthene	0.01	ug/l	0.23	0.28	< 0.01
Fluorene	0.01	ug/l	0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	0.01	ug/l	0.23	0.36	< 0.01
Naphthalene	0.01	ug/l	0.26	< 0.01	< 0.01
Phenanthrene	0.01	ug/l	0.05	0.07	0.01
Pyrene	0.01	ug/l	0.31	0.63	0.02
PAH	0.2	ug/l	2.0	2.7	< 0.20
Catechol	0.1	ug/l	< 0.10	< 0.10	< 0.10
Cresols	0.1	ug/l	< 0.10	< 0.10	< 0.10
Naphthols	0.1	ug/l	< 0.10	< 0.10	< 0.10
Phenol	0.1	ug/l	< 0.10	< 0.10	< 0.10
Resorcinol	0.1	ug/l	< 0.10	< 0.10	< 0.10
Dimethylphenols		ug/l	-	-	-
Trimethylphenol	0.1	ug/l	< 0.10	< 0.10	< 0.10
Xylenols & Ethylphenols	0.1	ug/l	< 0.10	< 0.10	< 0.10
Total Phenols	0.1	ug/l	< 0.10	< 0.10	< 0.10

Test	Lab No	588504	593985	587083	593363	587081	593362	587082	593936	587084	593361	588502	620867	620868	620869	620870	620871
		Area	BED UP	CULV UP	SS11-01-1	SS11-01-1	SS11-02-1	SS11-02-1	SS11-02-3	SS11-08-1	SS11-08-1	UPCUV	AC 4-11	SS 11-02-1	SS 11-02-3	RB1	SS 11-08-1
		Other ID	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Sample Type	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sampling Date	13/12/2013	09/01/14	10/12/2013	09/01/14	10/12/2013	09/01/14	10/12/2013	10/01/14	10/12/2013	09/01/14	13/12/2013	12/03/14	12/03/14	12/03/14	12/03/14
Sampling Time	Units	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	
Lead	ug/l	1.2	1.1	1.7	0.98	1.1	2.0	1.2	1.3	1.0	1.1	1.3	1.5	2.8	2.0	1.3	
Arsenic, Dissolved	ug/l	0.038	0.03	0.080	0.045	0.030	0.041	0.030	0.065	0.050	0.034	0.030	<0.03	<0.03	<0.03	<0.03	
Cadmium, Dissolved	ug/l	0.46	7.2	0.48	10	0.33	7.0	0.25	0.25	0.35	7.3	0.49	0.48	0.47	0.79	0.45	
Chromium, Dissolved	ug/l	3.4	6.3	1.7	2.9	5.5	0.80	3.0	2.8	2.8	2.9	1.8	1.8	1.8	1.8	3.0	
Copper, Dissolved	ug/l	48	180	35	51	73	220	70	45	70	500	40	150	91	49	9900	
Iron, Dissolved	ug/l	0.62	0.95	0.10	0.47	0.64	2.1	0.38	0.56	0.69	3.9	0.21	0.34	0.58	0.21	1.7	
Lead, Dissolved	ug/l	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	
Mercury, Dissolved	ug/l	0.5	1.9	0.5	3.4	1.7	1.3	2.3	2.6	2.3	2.6	2.3	2.6	2.3	2.6	2.3	
Nickel, Dissolved	ug/l	<0.025	0.30	0.27	0.61	0.25	0.33	0.45	1.1	0.25	0.25	0.25	0.3	0.27	0.3	0.5	
Selenium, Dissolved	ug/l	10.0	71.0	16.0	37.2	28.0	29.2	10.0	155	62.0	65.5	50.4	37.8	27.5	47.3	59.8	
Zinc, Dissolved	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron (Total)	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conductivity	us/cm	605	363	514	385	588	352	503	564	597	343	594	982	547	400	1490	
pH	ug/l	7.9	7.7	7.8	7.9	8.1	8.1	8.0	7.3	8.0	8.4	8.0	6.8	7.4	7.5	6.7	
Cyanide total	ug/l	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<41	<40	<40	<40	
Cyanide free	ug/l	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	
Cyanide complex	ug/l	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<41	<40	<40	<40	
Thiocyanate	ug/l	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	
Total Dissolved Solids	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Suspended Solids	ug/l	5	48	33	19	31	70	31	140	110	<5.0	46	33	12	48	15	
Ammoniacal Nitrogen as N	0.015	0.16	0.43	0.48	0.058	0.16	0.21	0.45	1.1	0.17	0.16	0.26	1.8	0.094	0.95	3.9	
Total Nitrogen as N	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	0.1	mg/l	35	31	46	19	38	44	46	45	49	130	36	40	34	39	
Sulphate as SO4	0.1	mg/l	48	24	54	36	55	33	60	70	41	41	49	170	38	46	
Sulphide	10	ug/l	<10	<10.0	<10	<10.0	<10	15	<10	<10.0	<10	<10	<10	<10	<10	<10	
Sulphur (free)	84	ug/l	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	
Total Organic Carbon	2	mg/l	13	18	6.7	3.4	13	19	13	13	11	20	11	8.1	14	1000	
TPH	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EPH (C10-C40)	10	ug/l	240	170	130	200	120	200	130	430	140	550	210	270	110	260	
Benzene	1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Toluene	1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Ethylbenzene	1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
m,p Xylenes	ug/l	-	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	<1.0	<1.0	
o Xylene	ug/l	-	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	<1.0	<1.0	
Xylene	1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
MTBE	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthene	0.01	ug/l	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	1.2	<0.01	<0.01	<0.01	7.0	0.01	0.01	0.16	
Acenaphthylene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	0.01	ug/l	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.32	0.07	<0.01	0.06	0.24	0.02	0.13	
Benzo(a)anthracene	0.01	ug/l	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	0.04	0.02	<0.01	0.09	<0.01	<0.01	<0.01	
Benzo(a)pyrene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	0.01	0.07	<0.01	
Benzo(b)fluoranthene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	
Benzo(k)fluoranthene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	
Benzo(e)pyrene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene	0.01	ug/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.07	<0.01	
Dibenz(a,h)anthracene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluorene	0.01	ug/l	0.10	<0.01	0.09	<0.01	0.12	<0.01	0.09	0.27	<0.01	0.08	0.44	0.23	0.34	0.15	
Indeno(1,2,3-c)pyrene	0.01	ug/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.67	<0.01	0.04	2.1	0.13	0.02	<0.01	
Indeno(1,2,3-c)pyrene	0.01	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	
Naphthalene	0.01	ug/l	<0.01	0.01	<0.01	<0.01	0.03	<0.01	0.09	0.19	0.03	<0.01	0.08	0.01	0.79	0.36	
Phenanthrene	0.01	ug/l	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	0.08	<0.01	0.18	0.66	<0.01	0.01	0.02	
Pyrene	0.01	ug/l	0.14	<0.01	0.12	<0.01	<0.01	<0.31	0.06	0.31	0.06	0.14	0.40	0.13	0.01	<0.01	
PAH	0.2	ug/l	0.51	<0.20	0.26	<0.20	0.35	<0.20	0.36	3.1	<0.20	<0.20	0.60	1.1	0.68	2.6	
Catechol	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Cresols	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Naphthols	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Phenol	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Resorcinol	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Dimethylphenols	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylphenol	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Xylenols & Ethylphenols	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Total Phenols	0.1	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	

[illegible]

		Lab No.	591842
		Sample ID	TP32
		Depth	2.00
		Sample Ref	
		Sample Type	
		Sampling Date	02/12/2013
		Sample Horizon	MG
Test	Units	LOD	
BS EN 12457 10:1			Y
Arsenic, Dissolved	ug/l	0.16	3.4
Cadmium, Dissolved	ug/l	0.03	< 0.030
Chromium, Dissolved	ug/l	0.25	< 0.25
Copper, Dissolved	ug/l	0.4	< 0.40
Iron, Dissolved	ug/l	5.5	8.4
Lead, Dissolved	ug/l	0.09	0.12
Mercury, Dissolved	ug/l	0.01	< 0.010
Nickel, Dissolved	ug/l	0.5	0.93
Selenium, Dissolved	ug/l	0.25	< 0.25
Zinc, Dissolved	ug/l	1.25	3.57
Conductivity	uS/cm	1	55.8
pH			8.4
Cyanide total	ug/l	40	< 40
Cyanide free	ug/l	20	< 20
Cyanide complex	ug/l	40	< 40
Thiocyanate	ug/l	40	< 40
Ammoniacal Nitrogen as N	mg/l	0.015	1.4
Chloride	mg/l	0.1	2.1
Sulphate as SO4	mg/l	0.1	8
Sulphide	ug/l	10	< 10
Sulphur (free)	ug/l	84	< 84
Total Organic Carbon	mg/l	2	7.5
EPH (C10-C40)	ug/l	10	2400
TPH	ug/l		-
Benzene	ug/l	1	2
Toluene	ug/l	1	2
Ethylbenzene	ug/l	1	11
Xylene	ug/l	1	24
Acenaphthene	ug/l	0.01	240
Acenaphthylene	ug/l	0.01	< 0.01
Anthracene	ug/l	0.01	22
Benzo(a)anthracene	ug/l	0.01	1.4
Benzo(a)pyrene	ug/l	0.01	1.4
Benzo(b)fluoranthene	ug/l	0.01	0.85
Benzo(k)fluoranthene	ug/l	0.01	0.37
Benzo(g,h,i)perylene	ug/l	0.01	1.2
Chrysene	ug/l	0.01	0.98
Dibenzo(a,h)anthracene	ug/l	0.01	< 0.01
Fluoranthene	ug/l	0.01	23
Fluorene	ug/l	0.01	67
Indeno(1,2,3-c,d)pyrene	ug/l	0.01	1.3
Naphthalene	ug/l	0.01	31
Phenanthrene	ug/l	0.01	110
Pyrene	ug/l	0.01	23
PAH	ug/l	0.2	520
Catechol	ug/l	0.1	< 0.10
Cresols	ug/l	0.1	< 0.10
Dimethylphenols	ug/l		-
Naphthols	ug/l	0.1	< 0.10
Phenol	ug/l	0.1	< 0.10

Resorcinol	ug/l	0.1	< 0.10
Trimethylphenol	ug/l	0.1	< 0.10
Xylenols & Ethylphenols	ug/l	0.1	< 0.10
Total Phenols	ug/l	0.1	< 0.10
Suspended Solids	mg/l	5	-