

APPENDIX

F

LEACHATE CHEMISTRY



**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Colour	Turbidity	TKN	TSS	H ₂ S	Sulphate	Hardness	Total O&G	BOD	Chloride	Fluoride	DOC	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth
		unitless	µS/cm	TCU	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		5.5 to 10.5				350	1500				100	300	1500	10		1	50	5	1			5
MH1	May-07	7.61				166	104	< 0.02	16		7	52	570	0.42		0.037	0.44	< 0.01	< 0.008	0.532	< 0.0001	< 0.03
	Oct-08					325	120	< 0.2	6		6	63	600	0.47		0.037	0.70	< 0.01	0.008	0.514	< 0.0001	< 0.03
	Nov-09	7.44				226	28	< 0.6	6		9	61	620	0.45		< 0.02	0.03	< 0.01	< 0.008	0.505	< 0.0001	< 0.03
	Mar-10	7.53		208	159	311	46	< 0.2	8	1010	19	24	570	0.44	97.2	0.01	0.07	< 0.01	< 0.008	0.507	< 0.0001	< 0.03
	May-10	7.66		147	214	211	87	< 0.2	5	1090	6	23	400	0.47	91.3	0.012	0.23	0.02	< 0.008	0.547	< 0.0001	< 0.03
MH16	Jan-07	7.32				232	45	19.20	92		13	506	710	0.29		0.62	0.54	0.03	0.022	0.464	< 0.0001	< 0.03
	Jan-07	7.28				337	305	10.00	120		26	1570	830	0.24		1.20	1.07	< 0.01	0.035	0.605	< 0.0001	< 0.03
	Feb-07	7.32				519	470	1.44	47		25	2090	1300	0.35		0.91	1.58	0.02	0.010	0.519	< 0.0001	< 0.03
	Mar-07	7.73				628	178	0.30	35		18		1200	0.41		0.65	0.92	< 0.01	< 0.008	0.522	< 0.0001	< 0.03
	Apr-07	7.70				203	72	1.72	48		16	668	460	0.34		0.47	0.42	< 0.01	< 0.008	0.413	< 0.0001	< 0.03
	May-07	7.55				494	348	1.74	120		16	1000	1900	0.48		0.24	8.46	0.012		0.556	0.0002	< 0.03
	May-07	7.42				368	1100	3.97	63		48	2900	790	0.26		4.59	3.65	< 0.01	0.016	0.343	0.0004	< 0.03
	Jun-07	7.65				485	1380	1.23	26		17	1440	1200	0.26		0.48	23.30	< 0.01	0.010	0.669	0.0001	< 0.03
	Jun-07	7.75				654	240	0.40	53		13	2420	1400	0.46		0.67	2.07	0.06	0.012	0.604	< 0.0001	< 0.03
	Jul-07	7.63				226	84	2.23	27		14	601	950	0.42		0.37	0.81	< 0.01	0.014	0.466	< 0.0001	0.07
	Jul-07	7.58				605	100	0.48	56		20	511	2300	0.55		0.83	0.75	0.02	0.011	0.626	< 0.0001	< 0.03
	Sep-07	7.82				737	110	0.64	32		13	1160	1400	0.63		0.62	1.14	< 0.01	0.013	0.616	< 0.0001	< 0.03
	Oct-07	7.76				802	84	1.21	55		19	1320	1600	0.77		0.52	0.74	< 0.01	0.012	0.624	< 0.0001	< 0.03
	Jan-08	7.37				169	96	0.22	130		7	284	360	0.29		0.20	2.71	< 0.01	0.010	0.349	0.0001	< 0.03
	Feb-08	7.54				707	108	2.04	61		22	488	1800	0.40		0.98	0.44	< 0.01	0.015	0.792	< 0.0001	< 0.03
	Mar-08	7.42				730	200	9.86	27		13	2130	1900	0.31		0.87	5.39	0.02	0.017	0.853	< 0.0001	< 0.03
	Apr-08	7.63				684	126	8.35	33		20	1540	1800	0.41		1.03	1.83	< 0.01	0.018	0.918	0.0001	< 0.03
	May-08	7.62				143	82	0.24	14		17	769	440	0.23		0.38	1.30	< 0.01	< 0.008	0.346	< 0.0001	< 0.03
	Jun-08	7.72				355	153	1.66	75		14	868	860	0.36		1.16	0.13	< 0.01	< 0.008	0.336	< 0.0001	< 0.03
	Jul-08	7.52				114	114	0.78	28		18	237	460	0.34		0.091	1.25	< 0.01	< 0.008	0.571	< 0.0001	< 0.03
	Sep-08	7.39				416	88	< 0.2	13		10	349	1000	0.43		0.20	0.75	< 0.01	0.010	0.873	< 0.0001	< 0.03
	Oct-08	7.99				445	36	< 0.2	16		9	391	1000	0.44		0.14	0.35	< 0.01	< 0.008	0.856	< 0.0001	< 0.03
	Nov-08	7.71				148	132	0.14	46		12	870	1300	0.48		0.12	0.70	< 0.01	< 0.008	0.720	< 0.0001	< 0.03
	Jan-09	7.61				453	50	0.28	22		8	211	1100	0.47		0.082	0.51	< 0.01	0.010	1.05	< 0.0001	< 0.03
	Feb-09	6.77				117	95	1.13	170		5	1020	380	< 0.06		0.22	0.62	< 0.01	0.027	0.282	< 0.0001	< 0.03
Mar-09	6.60				66	98	0.98	180		10	912	240	0.19		0.21	1.05	< 0.01	< 0.008	0.197	< 0.0001	< 0.03	
Apr-09	7.19				223	32	6.89	100		15	1080	560	0.23		0.28	0.56	< 0.01	< 0.008	0.330	< 0.0001	< 0.03	
Apr-09	7.42				280	94	9.46	65		14	360	690	0.38		NR	0.57	< 0.01	0.008	0.683	< 0.0001	< 0.03	
May-09	7.79				297	67	7.17	48		12	308	730	0.40			1.13	< 0.01	0.020	0.564	< 0.0001	< 0.03	
Aug-09	7.78				677	46	< 0.6	27		45	408	1600	0.46		0.148	0.36	< 0.01	< 0.008	0.974	< 0.0001	< 0.03	
Sep-09	7.60				435	146	26.10	54		33	1100	1700	0.38		2.00	1.91	0.02	0.030	0.717	< 0.0001	< 0.03	
Oct-09	7.79				196	122	< 0.2	370		7	49	710	0.35		0.037	1.37	< 0.01	< 0.008	0.561	< 0.0001	< 0.03	
Nov-09	7.60				741	69	< 0.6	24		11	742	1700	0.48		0.20	0.30	< 0.01	0.011	1.09	< 0.0001	< 0.03	
Jan-10	7.90				611	67	< 0.6	14		19	314	1700	0.47		0.10	0.39	< 0.01	< 0.008	0.909	< 0.0001	< 0.03	
Feb-10	7.77				754	90	< 0.6	22		16	335	2100	0.52		0.088	0.23	< 0.01	0.013	0.693	< 0.0001	< 0.03	

Notes: · Concentrations in mg/L unless otherwise noted

· By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Selenium	Silver	Tin	Titanium	Vanadium	Zinc	COD	Total Cyanide
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		1	5	5	2	50	5	5	0.1	5	2	10	5	5	5	5	5	2		2
MH1	May-07	0.002	0.021	0.006	0.039	24.7	0.009	0.430	< 0.0001	< 0.005	0.02	1.34	< 0.02	< 0.005	< 0.03	0.031	0.007	0.06		< 0.1
	Oct-08	< 0.002	0.021	0.005	0.010	20.0	0.011	0.364	< 0.0001	< 0.005	0.03	1.19	< 0.02	< 0.007	< 0.03	0.038	0.007	0.06	380	< 0.01
	Nov-09	< 0.002	0.021	0.004	0.017	15.5	0.006	0.368	< 0.0001	< 0.005	0.05	1.11	< 0.02	< 0.005	< 0.03	0.019	0.006	0.03		< 0.01
	Mar-10	< 0.002	0.019	0.007	0.010	17.1	0.006	0.332	< 0.0001	< 0.005	0.03	1.32	< 0.02	< 0.005	< 0.03	0.018	0.005	0.03	440	< 0.01
	May-10	< 0.002	0.018	0.010	0.004	22.5	0.006	0.067	< 0.0001	< 0.005	0.03	1.26	< 0.02	0.178	< 0.03	0.026	0.005	0.04	300	< 0.01
MH16	Jan-07	< 0.002	0.047	0.004	0.038	4.42	0.010	1.10	< 0.0001	0.022	0.04	6.50	< 0.02	< 0.005	< 0.03	0.045	0.012	0.65		< 0.3
	Jan-07	0.002	0.071	0.004	0.240	15.2	0.013	2.37	< 0.0001	0.005	0.07	18.9	< 0.02	< 0.005	< 0.03	0.052	0.016	1.83		< 0.1
	Feb-07	0.003	0.081	0.013	0.061	28.7	0.006	1.98	< 0.0001	0.005	0.09	10.7	< 0.02	< 0.005	< 0.03	0.077	0.016	0.60		< 0.1
	Mar-07	< 0.002	0.080	0.010	0.018	10.9	< 0.005	1.66	< 0.0001	0.006	0.08	9.17	< 0.02	< 0.005	< 0.03	0.084	0.016	0.37		0.010
	Apr-07	< 0.02	0.031	0.006	0.254	4.00	< 0.005	1.45	< 0.0001	< 0.005	0.03	12.1	< 0.02	< 0.005	< 0.03	0.025	0.010	0.55		< 0.1
	May-07	0.002	0.095	0.012	0.099	25.6	0.016	1.15	< 0.0001	0.010	0.09	7.31	< 0.02	< 0.005	< 0.03	0.356	0.029	0.39	1500	< 0.1
	May-07	0.002	0.052	0.008	0.498	15.5	0.008	1.91	< 0.0001	< 0.005	0.06	70.1	< 0.02	< 0.005	< 0.03	0.058	0.019	2.52		< 0.1
	Jun-07	0.002	0.100	0.009	0.351	17.9	0.014	1.74	< 0.0001	0.006	0.09	20.2	< 0.02	< 0.005	< 0.03	0.065	0.017	0.61		< 0.1
	Jun-07	0.003	0.082	0.011	0.014	31.6	0.007	1.70	< 0.0001	0.016	0.09	10.5	< 0.02	< 0.005	< 0.03	0.105	0.016	0.37		0.040
	Jul-07	< 0.002	0.046	0.006	0.014	7.12	0.009	0.839	< 0.0001	< 0.005	0.06	3.96	< 0.02	< 0.005	< 0.03	0.044	0.014	0.22		< 0.1
	Jul-07	< 0.002	0.097	0.012	0.033	19.9	0.008	1.37	< 0.0001	0.006	0.10	9.89	< 0.02	< 0.005	< 0.03	0.069	0.016	0.29		0.030
	Sep-07	< 0.002	0.091	0.015	0.012	10.2	0.008	1.04	< 0.0001	0.014	0.09	8.85	< 0.02	< 0.005	< 0.03	0.078	0.016	0.21		< 0.1
	Oct-07	< 0.002	0.098	0.009	0.008	15.4	0.008	1.09	< 0.0001	< 0.005	0.11	9.32	< 0.02	< 0.005	< 0.03	0.071	0.015	0.27	2300	0.020
	Jan-08	< 0.002	0.031	0.005	0.022	8.99	0.006	0.913	< 0.1	< 0.005	0.03	3.31	< 0.02	< 0.01	< 0.03	0.098	0.011	0.23	600	< 0.01
	Feb-08	< 0.002	0.084	0.012	0.018	11.7	0.007	1.72	< 0.0001	< 0.005	0.11	9.44	< 0.02	< 0.005	< 0.03	0.053	0.016	0.46	2280	0.010
	Mar-08	0.002	0.108	0.009	0.978	24.1	0.033	2.56	< 0.0001	< 0.005	0.13	10.20	< 0.02	< 0.005	< 0.03	0.060	0.018	1.46		< 0.01
	Apr-08	0.003	0.101	0.011	0.086	16.1	0.018	2.30	< 0.0001	< 0.005	0.11	8.65	< 0.02	< 0.005	< 0.03	0.067	0.017	1.00	2600	< 0.1
	May-08	< 0.002	0.025	< 0.003	0.021	12.9	0.009	1.75	< 0.0001	< 0.005	0.03	2.77	< 0.02	< 0.005	< 0.03	0.019	0.005	0.22	1000	< 0.1
	Jun-08	< 0.002	0.023	< 0.003	0.074	16.2	< 0.005	1.34	< 0.0001	0.010	0.05	15.2	< 0.02	< 0.005	< 0.03	0.010	0.006	0.22	1430	< 0.01
	Jul-08	< 0.002	0.021	< 0.003	0.032	11.6	0.007	0.597	< 0.0001	< 0.005	0.03	3.43	< 0.02	< 0.005	< 0.03	0.041	0.006	0.30	530	< 0.1
	Sep-08	< 0.002	0.059	0.006	0.103	7.06	< 0.005	1.02	< 0.0001	< 0.005	0.07	6.42	< 0.02	< 0.005	< 0.03	0.034	0.010	0.49	880	< 0.01
	Oct-08	< 0.002	0.049	0.009	0.006	5.43	< 0.005	0.807	< 0.0001	0.006	0.05	5.81	< 0.02	< 0.007	< 0.03	0.032	0.011	0.14	820	< 0.01
	Nov-08	< 0.002	0.076	0.012	0.005	9.62	0.010	0.812	< 0.0001	< 0.005	0.10	7.54	< 0.02	< 0.01	< 0.03	0.059	0.013	0.19	1900	0.010
	Jan-09	< 0.002	0.061	0.008	0.016	4.94	< 0.005	0.796	< 0.0001	< 0.005	0.07	6.07	< 0.02	< 0.005	< 0.03	0.040	0.014	0.15	500	< 0.01
	Feb-09	< 0.002	0.032	0.005	0.057	19.6	0.009	1.81	< 0.0001	< 0.005	0.04	4.70	< 0.02	< 0.005	< 0.03	0.027	0.008	1.10	1420	< 0.1
Mar-09	< 0.002	0.035	0.009	0.052	15.3	0.008	1.82	< 0.0001	< 0.005	0.03	4.63	< 0.02	< 0.005	< 0.03	0.036	0.007	1.06	1410	< 0.01	
Apr-09	< 0.002	0.044	0.004	0.051	5.65	< 0.005	1.52	< 0.0001	0.006	0.05	7.11	< 0.02	< 0.005	< 0.03	0.030	0.008	0.59	1500	< 0.1	
Apr-09	< 0.002	0.037	0.005	0.027	3.54	< 0.005	1.33	< 0.0001	< 0.005	0.04	8.91	< 0.02	< 0.005	< 0.03	0.035	0.010	0.30	1400	< 0.03	
May-09	< 0.002	0.047	0.007	0.017	5.72	< 0.005	1.30	< 0.0001	< 0.005	0.05	6.96	< 0.02	< 0.007	< 0.03	0.047	0.013	0.32	800	< 0.01	
Aug-09	< 0.002	0.083	0.014	0.008	3.94	< 0.005	0.866	< 0.0001	< 0.005	0.11	7.44	< 0.02	< 0.005	< 0.03	0.058	0.016	0.10	NR	< 0.01	
Sep-09	< 0.002	0.060	0.006	0.059	5.87	0.023	1.940	< 0.0001	0.006	0.06	13.2	< 0.02	< 0.005	< 0.03	0.066	0.019	0.48	2300	< 0.1	
Oct-09	< 0.002	0.025	< 0.003	0.019	5.71	0.011	0.764	< 0.0001	< 0.005	0.04	3.30	< 0.02	< 0.005	< 0.03	0.057	0.009	0.08	400	< 0.01	
Nov-09	< 0.002	0.092	0.013	0.023	10.0	0.014	0.906	< 0.0001	< 0.005	0.13	6.46	< 0.02	< 0.005	< 0.03	0.058	0.017	0.012	1200	0.010	
Jan-10	< 0.002	0.087	0.016	0.009	4.24	0.009	0.822	< 0.0001	< 0.005	0.12	6.95	< 0.02	< 0.005	< 0.03	0.063	0.018	0.07	1030	< 0.01	
Feb-10	< 0.002	0.090	0.016	0.011	5.90	< 0.005	0.716	< 0.0001	< 0.005	0.13	5.76	< 0.02	< 0.005	< 0.03	0.048	0.014	0.08	1210	< 0.1	

Notes: · Concentrations · Concentrations in mg/L unless otherwise noted

· By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Colour	Turbidity	TKN	TSS	H ₂ S	Sulphate	Hardness	Total O&G	BOD	Chloride	Fluoride	DOC	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth
		unitless	µS/cm	TCU	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		5.5 to 10.5				350	350	1500	1500	100	300	1500	10	1	50	5	1					5
MH16	Mar-10	7.25				54	82	< 0.6	110		6	108	240	0.20		0.043	0.60	< 0.01	< 0.008	0.202	< 0.0001	< 0.03
cont.	Apr-10	7.96		500	48	699	53	< 0.2	45	1000	36	147	1100	0.43	170	0.05	0.47	< 0.01	0.012	0.726	< 0.0001	< 0.03
	Jun-10	7.69		184	86	8	79	< 0.6	250	457	2	20	160	0.33	18.6	0.014	1.22	< 0.01	0.008	0.314	< 0.0001	< 0.02
	Jul-10	7.83		440	32	489	27	0.12	24	1226	7	73	1200	0.49	167	0.029	0.25	< 0.01	0.006	1.04	< 0.0001	< 0.02
	Aug-10	7.72		710	136	619	154	0.30	12	1025	12	87	1700	0.55	268	0.055	1.69	< 0.01	0.009	0.976	< 0.0001	< 0.02
	Sep-10	7.75		12	36	592	43	< 0.6	26	1370	10	281	1200	0.44	311	0.160	0.17	0.01	0.008	0.801	< 0.0001	< 0.02
	Oct-10	7.55		280	46	444	26	< 0.6	83	935	7	160	950	0.49	191.0	0.043	0.33	< 0.01	< 0.004	0.765	< 0.0001	< 0.02
	Nov-10	7.71		210	205	222	254	0.07	170	751	4	71	580	0.35	92.3	0.018	3.36	< 0.01	0.013	0.626	0.0001	< 0.02
	Dec-10	7.59		494	101	493	25	< 0.2	28	1050	7	167	1100	< 0.06	236	0.091	0.29	< 0.01	0.016	1.01	< 0.0001	0.03
	Jan-11	7.64		9	78	470	26	0.11	41	1210	27	122	1000	0.29	197	0.058	0.19	0.01	0.005	1.05	< 0.0001	< 0.02
	Feb-11	7.81		650	42	578	20	0.07	12	1360	10	113	1600	0.55	183	0.028	0.22	0.02	0.015	1.52	< 0.0001	< 0.02
	Mar-11	7.84		220	134	273	158	0.47	180	840	22	243	730	0.40	276	0.092	0.68	0.02	< 0.004	0.645	< 0.0001	< 0.02
	Apr-11	7.58		35	145	40	124	0.12	100	553	< 2	103	180	0.24	43.7		0.28	< 0.01	0.007	0.289	< 0.0001	< 0.02
	May-11	7.42		157	110	164	67	0.44	32	774	8	80	460	0.36	74.9	0.144	0.70	< 0.01	< 0.004	0.742	< 0.0001	< 0.02
	Jun-11	7.73		350	19	247	19	0.16	12	1030	4	53	770	0.38	116	< 0.06	0.20	< 0.01	0.009	1.10	< 0.0001	< 0.02
	Jul-11	7.76		298	94	368	25	< 0.6	34	1300	< 2	52	810	0.45	140	0.016	0.22	< 0.01	0.018	1.21	< 0.0001	< 0.02
	Aug-11	7.82		638	25	601	37	0.05	9	1250	6	77	1300	0.57	254	< 0.02	0.34	< 0.01	0.009	1.24	< 0.0001	< 0.02
	Sep-11	7.53		151	164	248	276	0.19	190	1200	3	< 30	520	0.47	153	0.059	2.68	< 0.01	0.006	0.545	0.0001	< 0.02
	Oct-11	7.94		390	80	417	62	69.00	0	957	5	113	740	0.47	106	< 0.002	0.48	< 0.01	0.006	0.743	< 0.0001	< 0.02
	Nov-11	7.81		400	62	740	11		22	1180	9	140	1200	0.62	112	0.082	0.18	< 0.01	0.011	1.50	< 0.0001	0.04
	Dec-11	7.56		110	139	146	44		110	591	7	210	300	0.31	127	0.054	1.65	< 0.01	< 0.004	0.442	< 0.0001	0.04
	Jan-12	7.77		122	382	156	320	0.36	120	861	5	541	600	0.22	823	0.24	5.41	< 0.01	0.011	0.659	0.0001	< 0.02
	Feb-12	7.88		330	144	490	18	0.77	25	1060	3	67	820	0.39	91.8	0.20	0.29	0.01	0.007	1.01	0.0001	0.02
	Mar-12	7.63		400	174	711	20	1.40	73	1290	8	63	960	0.51	185	0.20	0.38	< 0.01	0.020	1.25	< 0.0001	< 0.02
	Apr-12	7.78		500	21	275	12	< 0.02	20	1230	2	92	1100	0.51	149	0.012	0.15	0.01	0.006	1.02	< 0.0001	< 0.02
	May-12	7.78		530	40	589	27	< 0.02	13	1280	4	88	1300	0.51	251	0.26	0.17	< 0.01	0.007	1.02	< 0.0001	< 0.02
	Jun-12	7.91		700	97	574	57	0.03	41	1300	12	151	1400	0.58	212	0.27	0.64	0.01	0.011	1.53	< 0.0001	< 0.02
	Jul-12	7.81		500	22	605	29	< 0.02	12	1240	NR	129	1600	0.57	265.0	0.019	0.28	0.01	0.006	1.38	< 0.0001	0.03
	Aug-12	7.93		900	21	620	19	< 0.02	13	1190	10	176	1600	0.65	197	0.41	0.22	< 0.01	0.016	1.59	< 0.0001	< 0.02
	Sep-12	7.85		200	179	492	268	NR	810	1470	4	62	980	0.54	149	< 0.02	3.26	0.03	0.023	0.737	0.0001	0.04
	Oct-12	7.88		750	140	434	12	0.72	180	1190	5	136	1300	0.54	219	0.046	0.29	< 0.01	0.015	0.758	< 0.0001	< 0.02
	Nov-12	8.03		122	55	94	63	< 0.02	320	735	22	32	380	0.37	64	< 0.002	0.77	< 0.01	0.004	0.282	< 0.0001	0.02
	Dec-12	7.91		242	32	141	23	0.06	360	990	6	41	700	0.39	180	0.063	0.45	0.05	0.005	0.672	< 0.0001	< 0.02
	Jan-13	7.85	9950	710	77	824	19	0.08	39	1080	2	163	1100	0.55	210	0.012	0.26	< 0.01	0.020	0.929	< 0.0001	< 0.02
	Feb-13	7.77	5030	275	33	247	23	0.04	120	796	ND	51	530	0.30	72.4	0.003	0.54	< 0.01	< 0.004	0.443	< 0.0001	< 0.02
	Mar-13	8.03	6630	230	143	206	86	< 0.02	140	1260	2	47	680	0.51	116	0.031	0.69	< 0.01	0.010	0.799	< 0.0001	0.02
	Apr-13	8.02	1840	57	114	73	102	< 0.02	130	504	< 2	16	140	0.20	29.3	< 0.002	1.63	< 0.01	0.007	0.233	< 0.0001	0.02
	May-13	8.11	4120	193	19	158	29	< 0.02	110	682	2	29	380	< 0.06	96.1	0.007	0.16	0.02	0.006	0.437	< 0.0001	< 0.02
	Jun-13	7.90	3860	145	372	142	327	< 0.02	230	723	< 2	35	480	0.39	86.3	0.005	4.48	< 0.01	0.012	0.544	0.0001	0.03
	Jul-13	7.94	11500	600	172	650	254	0.03	28	1400	7	67	1600	0.56	221	< 0.02	2.73	< 0.01	0.011	1.30	0.0001	< 0.02

Notes: - Concentrations in mg/L unless otherwise noted

- By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Selenium	Silver	Tin	Titanium	Vanadium	Zinc	COD	Total Cyanide
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		1	5	5	2	50	5	5	0.1	5	2	10	5	5	5	5	5	2		2
MH16	Mar-10	< 0.002	0.007	< 0.003	0.020	18.7	< 0.005	0.889	< 0.0001	< 0.005	0.02	1.35	< 0.02	< 0.005	< 0.03	0.029	0.004	0.12	250	< 0.01
cont.	Apr-10	< 0.002	0.071	0.013	0.007	3.07	0.007	0.834	< 0.0001	< 0.005	0.09	5.74	< 0.02	< 0.005	< 0.03	0.058	0.015	0.10	730	< 0.01
	Jun-10	< 0.0005	0.003	0.001	0.039	3.14	0.011	0.375	< 0.0001	< 0.01	0.01	0.42	< 0.01	< 0.08	< 0.03	0.035	0.003	0.08	130	< 0.01
	Jul-10	< 0.0005	0.069	0.017	0.005	2.57	< 0.005	0.833	< 0.0001	< 0.01	0.09	5.31	< 0.01	< 0.08	< 0.03	0.046	0.016	0.07	590	< 0.01
	Aug-10	< 0.0005	0.089	0.022	0.021	6.01	< 0.005	0.703	< 0.0001	< 0.01	0.11	6.98	< 0.01	< 0.08	< 0.03	0.086	0.015	0.13	900	< 0.1
	Sep-10	< 0.0005	0.067	0.015	0.004	3.20	< 0.005	0.642	< 0.0001	< 0.01	0.08	5.10	< 0.01	< 0.08	< 0.03	0.044	0.013	0.07	1010	< 0.01
	Oct-10	< 0.0005	0.051	0.013	0.003	3.30	< 0.005	0.610	< 0.0001	< 0.01	0.06	4.21	< 0.01	< 0.08	< 0.03	0.059	0.011	0.07	540	< 0.01
	Nov-10	0.001	0.033	0.010	0.037	7.86	0.009	0.474	< 0.0001	< 0.01	0.05	2.21	< 0.01	< 0.08	< 0.03	0.104	0.013	0.10	450	< 0.01
	Dec-10	< 0.0005	0.059	0.014	0.004	4.14	0.006	0.582	< 0.0001	< 0.01	0.07	4.38	< 0.01	< 0.08	< 0.03	0.011	0.011	0.056	133	< 0.01
	Jan-11	< 0.0005	0.059	0.019	0.010	6.63	0.008	0.682	< 0.0001	< 0.01	0.08	5.67	< 0.01	< 0.08	< 0.03	0.043	0.012	0.100	690	< 0.01
	Feb-11	< 0.0005	0.083	0.022	0.010	4.10	0.011	0.643	< 0.0001	< 0.01	0.11	5.99	< 0.01	< 0.08	< 0.03	0.057	0.016	0.14	770	< 0.01
	Mar-11	0.001	0.043	0.014	0.018	12.4	< 0.005	1.07	< 0.0001	< 0.01	0.07	3.16	< 0.01	< 0.08	< 0.03	0.055	0.012	0.33	1400	< 0.01
	Apr-11	0.001	0.006	0.004	0.021	9.31	< 0.005	1.56	< 0.0001	< 0.01	0.03	1.38	< 0.01	< 0.08	< 0.03	0.011	0.001	0.07	330	< 0.01
	May-11	< 0.0005	0.023	0.006	0.015	4.81	< 0.005	1.53	< 0.0001	< 0.01	0.03	2.77	< 0.01	< 0.08	< 0.03	0.036	0.008	0.08	338	< 0.01
	Jun-11	< 0.0005	0.046	0.010	0.008	2.35	< 0.005	1.34	< 0.0001	< 0.01	0.05	3.71	< 0.01	< 0.08	< 0.03	0.038	0.012	0.03	440	< 0.01
	Jul-11	0.001	0.044	0.016	0.020	12.2	0.008	0.775	< 0.0001	< 0.01	0.06	3.20	0.02	< 0.08	< 0.03	0.037	0.011	0.05	172	< 0.01
	Aug-11	0.001	0.083	0.020	0.008	3.45	< 0.005	0.721	< 0.0001	< 0.01	0.10	6.26	< 0.01	< 0.08	< 0.03	0.058	0.014	0.06	770	0.010
	Sep-11	< 0.0005	0.024	0.006	0.045	17.1	0.008	0.596	< 0.0001	< 0.01	0.05	1.50	< 0.01	< 0.08	< 0.03	0.105	0.012	0.10	320	< 0.01
	Oct-11	< 0.0005	0.053	0.015	0.007	2.31	0.007	0.684	< 0.0001	< 0.01	0.07	4.45	< 0.01	< 0.08	< 0.03	0.045	0.013	0.04	430	< 0.01
	Nov-11	< 0.0005	0.073	0.018	0.002	3.35	0.013	0.714	< 0.0001	< 0.01	0.09	5.30	< 0.01	< 0.08	< 0.03	0.050	0.015	0.02	750	< 0.01
	Dec-11	< 0.0005	0.020	0.005	0.037	6.61	0.007	0.689	< 0.0001	< 0.01	0.03	1.80	< 0.01	< 0.08	< 0.03	0.063	0.008	0.200	470	< 0.01
	Jan-12	0.001	0.033	0.010	0.091	16.60	0.018	1.09	< 0.0001	< 0.01	0.05	1.76	< 0.01	< 0.08	< 0.03	0.208	0.015	0.351	1340	0.010
	Feb-12	0.001	0.044	0.011	0.005	1.58	0.006	0.837	0.0001	0.010	0.05	3.49	0.01	0.08	0.03	0.041	0.013	0.031	460	0.010
	Mar-12	< 0.0005	0.071	0.016	0.006	1.67	0.006	0.916	< 0.0001	< 0.01	0.08	4.85	< 0.01	< 0.08	< 0.03	0.057	0.018	0.043	380	0.070
	Apr-12	< 0.0005	0.073	0.019	0.004	3.02	< 0.005	0.742	< 0.0001	< 0.01	0.08	5.00	< 0.01	< 0.08	< 0.03	0.058	0.017	0.031	1330	0.020
	May-12	< 0.0005	0.082	0.021	0.003	3.28	< 0.005	0.690	< 0.0001	< 0.01	0.10	5.62	< 0.01	< 0.08	< 0.03	0.062	0.017	0.026	730	0.010
	Jun-12	< 0.0005	0.091	0.023	0.006	3.89	0.010	0.692	< 0.0001	< 0.01	0.10	6.15	< 0.01	< 0.08	< 0.03	0.083	0.019	0.048	840	0.010
	Jul-12	< 0.0005	0.098	0.023	0.010	2.83	0.008	0.660	< 0.0001	< 0.01	0.11	7.03	< 0.01	< 0.08	< 0.03	0.075	0.021	0.054	680	0.010
	Aug-12	< 0.0005	0.104	0.026	0.004	3.18	< 0.005	0.577	< 0.0001	< 0.01	0.11	7.15	< 0.01	< 0.08	< 0.03	0.073	0.018	0.035	350	0.020
	Sep-12	0.001	0.070	0.021	0.080	10.5	0.020	1.16	< 0.0001	< 0.01	0.08	3.87	< 0.01	< 0.08	< 0.03	0.150	0.021	0.187	520	< 0.01
	Oct-12	< 0.0005	0.082	0.020	0.004	1.16	0.009	0.644	< 0.0001	< 0.01	0.09	5.51	< 0.01	< 0.08	< 0.03	0.058	0.017	0.025	630	< 0.01
	Nov-12	< 0.0005	0.022	0.006	0.026	3.77	0.018	0.601	0.00001	< 0.01	0.03	1.25	< 0.01	< 0.08	< 0.03	0.030	0.006	0.125	210	< 0.01
	Dec-12	< 0.0005	0.034	0.010	0.023	2.97	0.016	0.636	< 0.00001	< 0.01	0.05	2.37	< 0.01	< 0.08	< 0.03	0.032	0.009	0.041	400	< 0.01
	Jan-13	< 0.0005	0.084	0.020	0.002	2.33	0.005	0.621	0.00003	< 0.01	0.09	5.66	< 0.01	< 0.08	< 0.03	0.066	0.018	0.032	790	< 0.01
	Feb-13	< 0.0005	0.040	0.012	0.008	3.50	0.020	0.915	0.00028	< 0.01	0.05	2.86	< 0.01	< 0.08	< 0.03	0.043	0.012	0.080	370	< 0.01
	Mar-13	0.001	0.042	0.016	0.007	15.5	0.009	0.633	< 0.00001	< 0.01	0.05	2.87	< 0.01	< 0.08	< 0.03	0.050	0.009	0.041	470	< 0.01
	Apr-13	< 0.0005	0.009	0.005	0.020	3.96	< 0.005	1.06	< 0.00001	< 0.01	0.02	1.31	< 0.01	< 0.08	< 0.03	0.053	0.005	0.084	220	< 0.01
	May-13	< 0.0005	0.026	0.008	0.006	2.21	< 0.005	0.655	0.00002	< 0.01	0.04	2.06	< 0.01	< 0.08	< 0.03	0.023	0.007	0.034	286	< 0.01
	Jun-13	0.001	0.032	0.009	0.039	10.9	0.016	0.617	0.00002	< 0.01	0.05	1.69	< 0.01	< 0.08	< 0.03	0.140	0.015	0.123	262	< 0.01
	Jul-13	0.001	0.108	0.027	0.018	10.2	0.011	0.774	< 0.00001	< 0.01	0.12	6.68	< 0.01	< 0.08	< 0.03	0.160	0.024	0.096	1010	0.010

Notes: - Concentrations in mg/L unless otherwise noted

- By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Colour	Turbidity	TKN	TSS	H ₂ S	Sulphate	Hardness	Total O&G	BOD	Chloride	Fluoride	DOC	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth
		unitless	µS/cm	TCU	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		5.5 to 10.5				350	350	1500	1500	100	300	1500	10	1	50	5	1	1	1	5	5	5
MH16	Aug-13	7.86	14900	1350	24	851	19	< 0.02	9	1400	3	168	1900	0.64	420	0.052	0.24	0.02	0.012	1.11	< 0.0001	0.03
cont.	Sep-13	7.98	1720	50	142	36	110	< 0.02	170	369	< 2	< 12	260	0.41	36.7	< 0.002	2.14	< 0.01	0.011	0.223	< 0.0001	< 0.02
	Oct-13	7.98	9070	600	41	519	74	< 0.02	52	1010	< 2	122	1100	0.53	1440	0.01	0.44	< 0.01	0.006	1.05	< 0.0001	0.03
	Nov-13	7.91	5290	300	90	318	76	0.04	56	598	3	88	620	< 0.06	104	0.02	1.68	< 0.01	0.004	0.412	< 0.0001	< 0.02
	Dec-13	8.26		550	51	496	80	< 0.02	28	912	< 2	56	980	0.57	183	0.018	0.77	< 0.01	0.009	0.843	< 0.0001	0.02
	Jan-14	7.91	8060	375	66	460	26	< 0.02	11	1050	3	48	960	0.52	176	0.014	0.13	< 0.01	0.004	1.16	< 0.0001	< 0.02
	Feb-14	8.21	8670	550	19	511	8	< 0.02	14	1150	54	58	1000	0.52	194	0.023	0.14	< 0.02	0.020	1.55	< 0.0001	< 0.05
	Mar-14	7.83	10800	710	13	657	15	< 0.02	31	1400	< 2	64	1400	0.57	220	0.016	0.12	< 0.02	< 0.01	1.22	0.0001	< 0.05
	Apr-14	8.13	7050	355	23	547	26	< 0.02	18	902	3	57	750	0.50	124	0.036	0.37	0.02	0.010	0.874	< 0.0001	< 0.05
	May-14	7.91	10900	655	20	712	21	< 0.02	19	1240	2	83	1400	0.59	10.4	0.037	0.23	< 0.02	0.020	1.48	0.0001	< 0.05
	Jun-14	7.93	9420	515	31	543	27	< 0.02	11	1200	7	81	1100	0.54	7.9	0.003	0.32	< 0.02	0.020	1.30	< 0.0001	< 0.05
	Jul-14	8.07	11700	550	> 4000	830	5860	0.46	18	2210	6	492	1600	0.62	340	0.12	29.10	< 0.02	0.010	1.86	0.0014	0.13
	Aug-14	7.98	6900	550	65	303	23	< 0.2	82	812	< 2	68	900	0.45	148	0.006	1.15	< 0.02	< 0.01	0.602	0.0001	< 0.05
	Sep-14	7.78	8800	440	143	458	78	< 0.02	7	1540	< 2	72	890	0.62	227	0.016	0.87	< 0.02	0.010	0.699	< 0.0001	0.06
	Oct-14	7.92	10100	675	42	552	79	< 0.02	38	1080	2	92	1300	0.57	192		1.00	< 0.02	0.010	0.972	0.0001	< 0.05
	Nov-14	8.16	10500	730	22	642	26	0.04	16	1130	2	99	1400	0.60	280	< 0.002	0.14	< 0.02	0.010	1.43	< 0.0001	< 0.05
	Dec-14	7.88	8730	600	23	543	11	< 0.02	26	896	< 2	146	1100	0.49	195	0.17	0.23	< 0.02	< 0.01	1.10	< 0.0001	< 0.05
	Jan-15	7.98	13100	1050	11.4	899	6	< 0.02	46	1360	< 2	50	1900	0.59	389	0.260	0.16	< 0.02	< 0.01	1.34	0.0001	< 0.05
	Feb-15	7.99	14600	1100	17.5	883	7	< 0.02	75	1240	< 2	90	1800	0.65	393	0.35	0.22	< 0.02	0.01	1.26	< 0.0001	< 0.05
	Mar-15	7.82	11300	760	28.4	484	28	< 0.2	11	1150	< 2	56	1500	0.67	323	0.12	0.41	< 0.02	< 0.01	1.97	< 0.0001	< 0.05
	Apr-15	7.70	8780	600	NA	500	29	0.03	18	951	< 2	26	1000	0.52	185	0.005	0.44	< 0.02	< 0.01	0.960	0.0001	< 0.05
	May-15	7.88	9740	630	11.8	537	24	< 0.02	15	1100	5	67	1300	0.53	211	0.006	0.11	< 0.02	0.02	1.45	0.0002	< 0.05
	Jun-15	8.07	9630	624	19.4	606	21	< 0.02	< 1	1200	< 2	79	1200	0.54	230	0.006	0.12	< 0.02	< 0.01	1.38	< 0.0001	< 0.05
	Jul-15	8.03	10000	904	10.6	644	9	0.02	< 1	1020	< 2	68	1400	0.58	304	0.085	0.17	< 0.02	0.02	1.23	0.0001	< 0.05
	Aug-15	7.86	12900	1380	14.6	1150	8	< 0.02	< 1	1060	11	100	1700	0.64	304	0.008	0.21	< 0.02	0.03	0.944	< 0.0001	< 0.05
	Sep-15	7.78	10100	640	19.3	49	8	< 0.06	4	1030	5	60	1200	0.64	217	0.003	0.08	< 0.02	0.02	1.86	< 0.0009	< 0.05
	Oct-15	8.03	14200	1260	10.5	1000	9	< 0.02	55	1020	6	116	1900	0.71	120	0.011	0.16	< 0.02	< 0.01	1.11	< 0.0009	< 0.05
	Nov-15	7.99	13500	1190	17.5	857	9	< 0.02	< 1	1149	< 2	75	1700	0.67	329	0.006	< 0.01	0.14	0.07	1.28	< 0.0009	< 0.05
	Dec-15	7.82	7960	490	78.5	483	40	< 0.02	< 1	974	< 2	55	1000	0.57	270	0.022	0.21	< 0.02	< 0.01	1.09	< 0.0009	< 0.05
	Jan-16	7.87	12300	-	-	730	5	< 0.02	1	-	< 2	89	1500	0.62	-	0.016	0.17	< 0.02	0.02	1.11	< 0.0009	< 0.05
	Feb-16	7.93	8760	650	20.3	478	17	0.04	83	849	< 2	83	1100	0.55	149	0.090	0.25	< 0.02	0.01	0.749	< 0.0009	< 0.05
	Mar-16	7.88	5520	300	27.2	292	25	0.24	1	692	5	57	690	0.39	108	0.071	0.26	< 0.02	< 0.01	0.571	< 0.0009	< 0.05
	Apr-16	7.90	2490	154	82.8	80.6	72	0.07	86	683	< 2	394	280	0.23	82.6	0.064	1.47	< 0.02	0.01	0.242	< 0.0009	0.06
	May-16	7.49	8410	415	97.7	15.1	65	0.02	3	1003	4	58	920	0.55	150	0.084	0.19	< 0.02	< 0.01	0.798	< 0.0009	< 0.05
	Jun-16	8.03	13500	1250	28.1	788	61	0.03	100	1060	2	695	2000	0.58	321	0.008	0.31	0.02	0.02	0.772	< 0.0009	< 0.05
	Jul-16	7.69	12800	1100	8.94	844	8	0.05	< 10	1090	< 2	103	1800	0.60	287	0.094	0.12	< 0.02	0.02	1.08	< 0.0009	< 0.05
	Aug-16	7.49	12300	1000	24.9	587	43	0.05	< 1	1100	2	106	35	0.61	337	0.066	0.12	< 0.02	< 0.01	1.23	< 0.0009	< 0.05
	Sep-16	7.99	11800	44	15.5	753	16	< 0.02	< 1	1230	6	76	1400	0.68	357	0.060	0.11	0.02	< 0.01	1.37	< 0.0009	< 0.05
	Oct-16	7.67	11200	800	36.1	602	18	0.04	4	1130	< 2	193	1600	0.68	308	0.004	0.07	< 0.02	< 0.01	1.95	< 0.0009	< 0.05
	Nov-16	7.80	3240	48	145	608	323	0.20	640	1140	4	277	870	0.78	20.0	0.058	0.11	< 0.02	0.02	1.66	< 0.0009	< 0.05

Notes: - Concentrations in mg/L unless otherwise noted

- By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Selenium	Silver	Tin	Titanium	Vanadium	Zinc	COD	Total Cyanide
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		1	5	5	2	50	5	5	0.1	5	2	10	5	5	5	5	5	2		2
MH16	Aug-13	< 0.0005	0.152	0.035	0.006	2.66	0.009	0.644	0.00001	< 0.01	0.16	8.86	< 0.01	< 0.08	< 0.03	0.085	0.020	0.093	465	0.020
cont.	Sep-13	< 0.0005	0.009	0.004	0.030	4.21	< 0.005	0.200	0.00001	< 0.01	0.02	0.403	< 0.01	< 0.08	< 0.03	0.062	0.006	0.049	124	< 0.01
	Oct-13	< 0.0005	0.083	0.017	0.013	3.91	0.011	0.712	< 0.00001	< 0.01	0.09	5.04	< 0.01	< 0.08	< 0.03	0.062	0.014	0.083	820	0.010
	Nov-13	0.001	0.042	0.012	0.014	3.33	0.010	0.741	< 0.00001	< 0.01	0.05	3.78	< 0.01	< 0.08	< 0.03	0.083	0.011	0.087	500	< 0.01
	Dec-13	< 0.0005	0.087	0.018	0.008	3.48	0.006	0.698	0.00001	< 0.01	0.08	5.42	< 0.01	< 0.08	< 0.03	0.063	0.0140	0.071	950	< 0.01
	Jan-14	< 0.0005	0.048	0.013	0.009	7.77	0.010	0.522	< 0.00001	< 0.01	0.06	3.42	< 0.01	< 0.08	< 0.03	0.032	0.009	0.038	530	< 0.01
	Feb-14	< 0.001	0.080	0.018	0.007	3.26	< 0.007	0.683	< 0.00001	< 0.01	0.09	4.94	< 0.01	< 0.08	< 0.03	0.053	0.015	0.048	360	< 0.01
	Mar-14	< 0.001	0.103	0.025	0.015	3.31	0.010	0.589	< 0.00001	< 0.01	0.11	5.68	< 0.01	< 0.08	0.03	0.069	0.017	0.036	810	0.010
	Apr-14	< 0.001	0.057	0.015	0.025	3.12	< 0.007	0.728	< 0.00001	< 0.01	0.07	3.53	0.01	< 0.08	< 0.02	0.042	0.010	0.051	570	< 0.01
	May-14	< 0.001	0.099	0.024	0.027	4.62	< 0.007	0.663	0.00002	< 0.01	0.11	5.54	0.01	< 0.08	< 0.02	0.058	0.015	0.057	760	0.010
	Jun-14	< 0.001	0.072	0.018	0.021	4.78	< 0.007	0.605	< 0.00001	< 0.01	0.09	4.06	< 0.01	< 0.08	< 0.02	0.052	0.013	0.044	710	< 0.01
	Jul-14	< 0.001	0.154	0.049	0.115	76.6	0.042	2.84	0.00002	< 0.01	0.16	8.27	< 0.01	< 0.08	< 0.02	0.763	0.072	0.482	1080	0.010
	Aug-14	< 0.001	0.053	0.017	0.017	2.79	< 0.007	0.406	0.00002	< 0.01	0.07	4.21	< 0.01	< 0.08	< 0.02	0.078	0.013	0.048	560	< 0.01
	Sep-14	< 0.001	0.055	0.017	0.056	20.5	0.008	0.515	0.00003	< 0.01	0.07	3.06	< 0.01	< 0.08	< 0.02	0.072	0.015	0.090	640	< 0.01
	Oct-14	< 0.001	0.100	0.025	0.019	5.68	0.010	0.564	< 0.00001	< 0.01	0.10	5.93	< 0.01	< 0.08	< 0.02	0.088	0.018	0.059	810	< 0.01
	Nov-14	< 0.001	0.096	0.023	0.007	4.20	< 0.007	0.539	< 0.00001	< 0.01	0.10	5.23	< 0.01	< 0.08	< 0.02	0.056	0.015	0.027	820	< 0.01
	Dec-14	< 0.001	0.078	0.020	0.006	2.92	< 0.007	0.487	< 0.00001	< 0.01	0.08	4.30	< 0.01	< 0.08	< 0.02	0.054	0.013	0.018	650	< 0.01
	Jan-15	< 0.001	0.157	0.035	0.012	3.29	< 0.007	0.622	0.00002	< 0.01	0.143	7.75	0.01	< 0.08	< 0.02	0.092	0.021	0.046	1120	0.01
	Feb-15	< 0.001	0.176	0.039	0.009	2.52	< 0.007	0.510	< 0.00001	< 0.01	0.147	7.94	< 0.01	< 0.08	< 0.02	0.096	0.022	0.042	1170	0.01
	Mar-15	< 0.001	0.098	0.024	0.005	3.65	< 0.007	0.463	< 0.00001	< 0.01	0.105	5.41	< 0.01	< 0.08	< 0.02	0.071	0.018	0.057	800	< 0.01
	Apr-15	< 0.001	0.103	0.022	0.004	3.55	0.007	0.589	0.00002	< 0.01	0.088	5.58	< 0.01	< 0.08	< 0.02	0.065	0.016	0.025	500	< 0.01
	May-15	< 0.001	0.082	0.021	< 0.003	3.33	< 0.007	0.534	0.00002	< 0.01	0.099	4.55	< 0.01	< 0.08	< 0.02	0.053	0.014	0.012	730	0.01
	Jun-15	< 0.001	0.085	0.020	0.005	4.18	< 0.007	0.522	< 0.00001	< 0.01	0.099	4.60	< 0.01	< 0.08	< 0.02	0.054	0.016	0.016	400	< 0.01
	Jul-15	< 0.001	0.110	0.023	0.006	2.81	< 0.007	0.483	0.00001	< 0.01	0.098	6.05	< 0.01	< 0.08	0.02	0.064	0.016	0.032	800	0.01
	Aug-15	< 0.001	0.164	0.036	0.020	4.40	< 0.007	0.489	< 0.00001	< 0.01	0.140	8.16	< 0.01	< 0.08	< 0.02	0.090	0.020	0.056	1190	0.01
	Sep-15	< 0.001	0.080	0.021	0.008	5.22	< 0.007	0.466	0.00001	< 0.01	0.088	4.49	< 0.01	< 0.08	< 0.02	0.051	0.015	0.024	740	0.01
	Oct-15	< 0.001	0.137	0.033	0.009	2.91	< 0.007	0.413	< 0.00001	< 0.01	0.133	7.24	< 0.01	< 0.08	< 0.02	0.078	0.017	0.026	1160	0.02
	Nov-15	0.001	0.308	0.039	0.007	2.95	0.021	0.521	< 0.00001	0.02	0.158	7.26	< 0.01	< 0.08	0.07	0.087	0.015	0.032	1150	0.01
	Dec-15	< 0.001	0.059	0.019	0.019	10.2	< 0.007	0.470	< 0.00001	< 0.01	0.071	3.39	< 0.01	< 0.08	0.02	0.044	0.011	0.033	640	< 0.01
	Jan-16	< 0.001	0.122	0.032	< 0.003	2.78	0.008	0.528	< 0.00001	0.01	0.104	6.35	< 0.01	< 0.08	< 0.02	0.071	0.017	0.034	940	0.01
	Feb-16	< 0.001	0.079	0.022	0.014	4.21	< 0.007	0.660	0.00002	< 0.01	0.086	4.65	< 0.01	< 0.08	< 0.02	0.053	0.012	0.082	730	< 0.01
	Mar-16	< 0.001	0.035	0.011	0.010	2.85	< 0.007	0.538	< 0.00001	< 0.01	0.044	2.61	< 0.01	< 0.08	< 0.02	0.031	0.008	0.029	460	< 0.01
	Apr-16	< 0.001	0.010	0.012	0.015	8.16	0.011	0.944	0.00001	0.01	0.028	1.22	< 0.01	< 0.08	< 0.02	0.063	0.008	0.127	780	< 0.01
	May-16	0.001	0.056	0.016	0.005	12.3	< 0.007	0.609	0.00002	< 0.01	0.068	3.30	< 0.01	< 0.08	< 0.02	0.036	0.011	0.026	620	< 0.01
	Jun-16	< 0.001	0.173	0.037	0.009	3.34	0.020	0.511	0.00003	< 0.01	0.144	7.97	< 0.01	< 0.08	< 0.02	0.072	0.018	0.039	1200	0.02
	Jul-16	< 0.001	0.126	0.029	0.004	1.97	< 0.007	0.497	0.00003	< 0.01	0.110	6.60	< 0.01	< 0.08	< 0.02	0.064	0.016	0.022	1040	0.01
	Aug-16	< 0.001	0.120	0.026	0.010	2.18	< 0.007	0.529	< 0.00001	< 0.01	0.112	7.94	< 0.01	< 0.08	< 0.02	0.072	0.018	0.071	920	< 0.01
	Sep-16	< 0.001	0.098	0.025	0.019	4.05	< 0.007	0.477	< 0.00001	< 0.01	0.114	5.51	< 0.01	< 0.08	< 0.02	0.060	0.016	0.071	870	0.02
	Oct-16	< 0.001	0.087	0.023	< 0.003	3.40	< 0.007	0.455	< 0.00001	< 0.01	0.096	4.71	< 0.01	< 0.08	< 0.02	0.057	0.015	0.015	870	0.01
	Nov-16	< 0.001	0.078	0.022	0.004	2.18	< 0.007	0.407	< 0.00001	< 0.01	0.095	4.13	< 0.01	< 0.08	< 0.02	0.053	0.015	0.026	580	< 0.01

Notes: - Concentrations in mg/L unless otherwise noted

- By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	pH	Conductivity	Colour	Turbidity	TKN	TSS	H ₂ S	Sulphate	Hardness	Total O&G	BOD	Chloride	Fluoride	DOC	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth
		unitless	µS/cm	TCU	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		5.5 to 10.5					350		1500		100	300	1500	10		1	50	5	1			5
MH16	Jan-18	8.07	10800	800	-	644	25	<0.02	<2	1000	<2	64	1500	0.57	437	0.052	0.23	<0.02	0.02	1.22	<0.0009	<0.05
cont.	Feb-18	7.89	7320	460	91.3	396	62	0.02	<2	931	7	410	1100	0.39	170	0.056	1.37	0.03	0.01	0.756	<0.0009	<0.05
	Mar-18	7.75	5920	340	297	320	29	0.31	3	1190	9	1220	900	0.33	510	0.150	0.88	<0.02	0.01	0.751	<0.0009	<0.05
	Apr-18	7.93	9280	940	24.0	780	17	<0.02	<2	1110	<2	198	1500	0.49	266	0.033	0.32	<0.02	0.02	0.994	<0.0009	<0.05
	May-18	7.82	5510	270	56.7	221	62	0.03	<2	1060	5	927	750	0.29	221	0.170	0.84	<0.02	<0.01	0.513	<0.0009	<0.05
	Jun-18	8.17	9390	560	20.3	86	42	<0.02	4	1260	<2	56	1100	0.53	172	0.090	0.19	<0.02	0.02	1.25	<0.0009	<0.05
	Jul-18	7.93	10400	700	40.4	582	45	<0.02	<2	1050	<2	99	1300	0.56	180	0.007	1.45	<0.02	<0.01	1.00	<0.0009	<0.05
	Aug-18	7.91	12300	750	201	761	184	<0.02	<2	955	<2	112	1800	0.71	186	0.013	5.97	<0.02	0.01	1.39	<0.0009	<0.05
	Sep-18	7.96	11800	830	106	723	97	0.02	<2	962	4	142	1700	0.58	343	0.018	1.70	<0.02	0.02	0.878	<0.0009	<0.05
	Oct-18	7.54	9820	450	256	385	37	0.13	210	1110	5	1140	1600	0.57	249	0.280	4.69	<0.02	0.02	1.13	<0.0009	<0.05
	Nov-18	7.68	6930	390	276	297	125	0.14	170	839	6	693	980	0.32	163	0.290	2.10	<0.02	0.01	0.700	<0.0009	<0.05
	Dec-18	7.62	3910	410	295	154	157	0.75	350	1230	7	1600	750	0.37	224	0.330	1.39	0.06	<0.01	0.535	<0.0009	<0.05

Notes: · Concentrations in mg/L unless otherwise noted

· By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-1: Leachate Chemical Results
Oxford County Waste Management Facility**

Monitor	Date	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Selenium	Silver	Tin	Titanium	Vanadium	Zinc	COD	Total Cyanide
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
By-law limits		1	5	5	2	50	5	5	0.1	5	2	10	5	5	5	5	5	2		2
MH16	Jan-18	<0.001	0.094	0.024	0.054	2.14	<0.007	0.495	0.00003	<0.01	0.109	5.54	<0.01	<0.08	<0.02	0.063	0.016	0.086	800	0.01
cont.	Feb-18	<0.001	0.057	0.015	0.331	3.17	0.011	0.855	0.00009	<0.01	0.072	3.23	<0.01	<0.08	<0.02	0.046	0.011	0.352	1120	<0.01
	Mar-18	<0.001	0.051	0.014	0.019	7.00	<0.007	1.55	0.00004	<0.01	0.074	3.06	<0.01	<0.08	<0.02	0.059	0.010	0.270	2020	<0.01
	Apr-18	<0.001	0.133	0.030	0.006	3.64	<0.007	0.695	0.00001	<0.01	0.114	6.86	<0.01	<0.08	<0.02	0.066	0.014	0.031	910	0.01
	May-18	<0.001	0.032	0.010	0.014	4.78	<0.007	1.56	0.00003	<0.01	0.057	2.63	<0.01	<0.08	<0.02	0.053	0.007	0.068	2000	<0.01
	Jun-18	<0.001	0.072	0.021	0.007	4.10	<0.007	0.789	<0.00001	<0.01	0.087	4.15	<0.01	<0.08	<0.02	0.048	0.012	0.022	680	<0.01
	Jul-18	<0.001	0.087	0.027	0.007	3.15	<0.007	0.561	0.00001	<0.01	0.102	4.79	<0.01	<0.08	<0.02	0.114	0.018	0.014	730	<0.01
	Aug-18	<0.001	0.102	0.043	0.043	9.72	<0.007	0.563	0.00006	<0.01	0.163	4.20	<0.01	<0.08	0.03	0.405	0.038	0.045	860	<0.01
	Sep-18	<0.001	0.108	0.031	0.012	3.97	<0.007	0.493	0.00002	<0.01	0.133	5.61	<0.01	<0.08	<0.02	0.116	0.024	0.022	970	0.01
	Oct-18	<0.001	0.066	0.026	0.034	9.12	<0.007	0.695	<0.00001	<0.01	0.131	3.98	<0.01	<0.08	<0.02	0.250	0.026	0.150	1180	0.02
	Nov-18	<0.001	0.049	0.017	0.020	5.32	0.008	1.03	0.00006	<0.01	0.078	3.52	<0.01	<0.08	<0.02	0.089	0.016	0.215	1190	0.01
	Dec-18	0.002	0.048	0.015	0.038	9.57	0.013	1.63	0.00005	<0.01	0.072	5.02	0.02	<0.08	<0.02	0.055	0.015	0.700	2000	0.01

Notes: · Concentrations in mg/L unless otherwise noted

· By-law limits = Oxford County Sewer Discharge By-Law No. 2719-87

**Table F-2: Leachate Level Elevations
Oxford County Waste Management Facility**

Manhole / Well No.	1	7	8	12	13	16	17	03-8
Measuring Point Elevation	301.27	299.53	308.39	312.03	301.47	297.86	302.20	312.16
Jan-07	297.85	297.38	<304.491	<292.215	298.12	289.94	288.70	303.64
Feb-07	295.17	297.11	<304.491	292.78	297.92	289.49	288.66	303.50
Apr-07	295.36	297.10	<304.491	<292.215	297.87	288.74	290.89	303.56
May-07	294.89	297.05	<304.491	<292.215	298.04	286.03	289.57	303.52
May-07	294.37	297.05	<304.491	<292.215	298.17	289.70	288.45	303.50
Jul-07	294.32	297.05	<304.491	<292.215	296.32	289.46	290.09	303.48
Aug-07	293.62	297.06	<304.491	298.28	295.19	291.15	293.35	303.45
Sep-07	292.87	297.05	<304.491	294.24	295.13	286.93	290.79	305.01
Oct-07	293.27	297.03	<304.491	<292.215	Removed	287.61	288.48	303.41
Nov-07	293.62	297.03	<304.491	<292.215		288.06	290.89	303.91
Dec-07	294.57	297.13	<304.491	<292.215		288.07	288.80	303.26
Jan-08	296.73	297.12	<304.491	<292.215		291.97	290.71	303.56
Feb-08	295.99	297.13	<304.491	<292.215		290.76	289.45	303.54
Mar-08	294.77	297.13	<304.491	<292.215		288.08	290.93	303.56
Apr-08	296.09	297.08	<304.491	298.18		289.44	290.95	303.55
May-08	296.70	297.08	<304.491	297.58		293.68	292.30	303.56
Jun-08	296.69	297.13	<304.491	299.03		293.89	293.20	303.67
Jul-08	296.25	297.13	<304.491	294.59		293.22	291.96	303.68
Aug-08	294.94	297.07	<304.491	300.31		290.96	290.45	303.69
Sep-08	295.12	297.05	<304.491	292.93		287.86	286.76	303.59
Oct-08	294.44	297.07	<304.491	293.64		290.66	288.39	304.28
Nov-08	296.06	297.13	<304.491	297.83		289.24	297.95	303.77
Dec-08	296.06	297.11	<304.491	294.78		292.22	290.90	303.81
Jan-09	293.31	297.10	<304.491	295.03		288.83	290.44	303.76
Feb-09	295.10	297.13	<304.491	<292.215		291.20	290.55	303.79
Mar-09	296.83	297.13	<304.491	<292.215		292.93	291.69	303.60
Apr-09	295.22	297.13	<304.491	293.36		287.19	291.70	303.56
May-09	295.22	297.06	<304.491	<292.215		289.19	289.19	303.88
Jun-09	294.31	297.03	<304.491	<292.215		288.31	288.52	303.87
Jul-09	294.27	297.13	<304.491	<292.215		287.26	290.86	303.84
Aug-09	294.77	297.12	<304.491	294.46		291.20	292.00	303.76
Sep-09	295.40	297.06	<304.491	292.95		290.71	289.45	303.72
Oct-09	294.54	297.12	<304.491	293.19		285.97	293.87	303.97
Nov-09	294.52	297.11	<304.491	293.76		289.01	291.86	303.76
Dec-09	296.75	297.07	<304.491	293.51		289.28	291.01	303.65
Jan-10	296.32	297.11	<304.491	293.21		291.91	291.85	303.86
Feb-10	295.77	297.12	<304.491	295.53		291.16	289.84	304.31
Mar-10	293.22	297.11	<304.491	293.37		288.94	288.00	303.82
Apr-10	295.99	297.13	<304.491	293.93		291.98	290.58	303.63
May-10	295.12	297.12	<304.491	294.18		292.20	292.20	303.86
Jun-10	295.81	297.10	<304.491	292.97		293.22	292.99	303.99
Jul-10	294.02	sealed	sealed	sealed		288.62	sealed	304.29
Aug-10	292.41	sealed	sealed	sealed		291.57	sealed	304.10
Sep-10	295.17	sealed	sealed	sealed		290.90	sealed	304.04
Oct-10	295.47	sealed	sealed	sealed		288.71	sealed	304.06
Nov-10	295.51	sealed	sealed	sealed		289.86	sealed	304.06
Dec-10	294.82	sealed	sealed	sealed		289.51	sealed	303.85
Jan-11	296.14	sealed	sealed	sealed		289.33	sealed	304.10
Feb-11	293.69	sealed	sealed	sealed		290.09	sealed	304.13
Mar-11	295.47	sealed	sealed	sealed		290.71	sealed	304.21

Notes: · All elevations in metres above sea level
· Blank indicates data not available

**Table F-2: Leachate Level Elevations
Oxford County Waste Management Facility**

Manhole / Well No.	1	7	8	12	13	16	17	03-8
Measuring Point Elevation	301.27	299.53	308.39	312.03	301.47	297.86	302.20	312.16
Apr-11	296.47	sealed	sealed	sealed		294.06	sealed	304.56
May-11	296.02	sealed	sealed	sealed		291.90	sealed	304.72
Jun-11	295.32	sealed	sealed	sealed		290.99	sealed	304.51
Jul-11	294.13	sealed	sealed	sealed		289.60	sealed	304.10
Aug-11	294.17	sealed	sealed	sealed		290.02	sealed	304.76
Sep-11	292.17	sealed	sealed	sealed		292.40	sealed	304.81
Oct-11	293.71	sealed	sealed	sealed		292.11	sealed	304.60
Nov-11	295.27	sealed	sealed	sealed		295.39	sealed	304.71
Dec-11	296.02	sealed	sealed	sealed		291.16	sealed	304.90
Jan-12	296.23	sealed	sealed	sealed		289.68	sealed	304.31
Feb-12	292.42	sealed	sealed	sealed		293.88	sealed	305.26
Mar-12	295.34	sealed	sealed	sealed		289.26	sealed	305.46
Apr-12	292.72	sealed	sealed	sealed		288.36	sealed	305.41
May-12	294.28	sealed	sealed	sealed		289.30	sealed	305.14
Jun-12	294.32	sealed	sealed	sealed		286.89	sealed	305.11
Jul-12	292.50	sealed	sealed	sealed		287.84	sealed	305.06
Aug-12	292.90	sealed	sealed	sealed		288.28	sealed	305.01
Sep-12	294.57	sealed	sealed	sealed		290.61	sealed	304.91
Oct-12	294.37	sealed	sealed	sealed		292.76	sealed	305.06
Nov-12	294.46	sealed	sealed	sealed		292.00	sealed	304.91
Dec-12	294.84	sealed	sealed	sealed		289.58	sealed	305.27
Jan-13	296.49	sealed	sealed	sealed		292.86	sealed	305.49
Feb-13	296.50	sealed	sealed	sealed		292.34	sealed	305.40
Mar-13	295.69	sealed	sealed	sealed		292.36	sealed	305.41
Apr-13	296.48	sealed	sealed	sealed		292.63	sealed	305.77
May-13	294.42	sealed	sealed	sealed		292.21	sealed	305.26
Jun-13	294.10	sealed	sealed	sealed		292.11	sealed	305.11
Jul-13	294.48	sealed	sealed	sealed		292.03	sealed	305.22
Aug-13	295.30	sealed	sealed	sealed		288.66	sealed	305.36
Sep-13	294.52	sealed	sealed	sealed		287.86	sealed	305.26
Oct-13	294.12	sealed	sealed	sealed		291.96	sealed	305.21
Nov-13	294.59	sealed	sealed	sealed		291.06	sealed	305.31
Dec-13	294.69	sealed	sealed	sealed		291.00	sealed	305.46
Jan-14	296.62	sealed	sealed	sealed		293.66	sealed	305.11
Feb-14	296.84	sealed	sealed	sealed		291.26	sealed	305.16
Mar-14	296.27	sealed	sealed	sealed		289.64	sealed	305.27
Apr-14	293.42	sealed	sealed	sealed		289.91	sealed	305.26
May-14	294.35	sealed	sealed	sealed		290.26	sealed	305.33
Jun-14	295.77	sealed	sealed	sealed		288.74	sealed	305.33
Jul-14	295.25	sealed	sealed	sealed		292.28	sealed	305.29
Aug-14	295.84	sealed	sealed	sealed		291.90	sealed	305.21
Sep-14	295.42	sealed	sealed	sealed		290.51	sealed	305.29
Oct-14	294.62	sealed	sealed	sealed		287.01	sealed	305.31
Nov-14	295.84	sealed	sealed	sealed		291.28	sealed	304.23
Dec-14	296.24	sealed	sealed	sealed		290.92	sealed	305.42
Jan-15	295.55	sealed	sealed	sealed		290.66	sealed	305.56
Feb-15	296.88	sealed	sealed	sealed		291.86	sealed	305.62
Mar-15	296.26	sealed	sealed	sealed		290.16	sealed	305.29
Apr-15	296.52	sealed	sealed	sealed		290.72	sealed	305.46
May-15	296.87	sealed	sealed	sealed		291.46	sealed	305.48

Notes: · All elevations in metres above sea level
· Blank indicates data not available



**Table F-2: Leachate Level Elevations
Oxford County Waste Management Facility**

Manhole / Well No.	1	7	8	12	13	16	17	03-8
Measuring Point Elevation	301.27	299.53	308.39	312.03	301.47	297.86	302.20	312.16
Jun-15	297.33	sealed	sealed	sealed		292.67	sealed	305.56
Jul-15	297.43	sealed	sealed	sealed		292.06	sealed	305.44
Aug-15	296.70	sealed	sealed	sealed		292.43	sealed	305.43
Sep-15	296.52	sealed	sealed	sealed		292.74	sealed	305.26
Oct-15	296.36	sealed	sealed	sealed		291.24	sealed	305.26
Nov-15	297.22	sealed	sealed	sealed		291.46	sealed	305.32
Dec-15	296.12	sealed	sealed	sealed		292.55	sealed	305.40
Jan-16	295.62	sealed	sealed	sealed		292.25	sealed	305.46
Feb-16	297.16	sealed	sealed	sealed		293.54	sealed	305.74
Mar-16	297.24	sealed	sealed	sealed		293.54	sealed	305.74
Apr-16	294.82	sealed	sealed	sealed		292.76	sealed	305.55
May-16	294.82	sealed	sealed	sealed		291.01	sealed	305.86
Jun-16	295.37	sealed	sealed	sealed		292.36	sealed	305.86
Jul-16	296.53	sealed	sealed	sealed		294.15	sealed	305.80
Aug-16	296.67	sealed	sealed	sealed		293.43	sealed	305.54
Sep-16	295.79	sealed	sealed	sealed		293.94	sealed	305.53
Oct-16	295.59	sealed	sealed	sealed		292.66	sealed	305.53
Nov-16	297.11	sealed	sealed	sealed		292.21	sealed	305.60
Dec-16	296.80	sealed	sealed	sealed		292.47	sealed	305.55
Jan-17	295.53	sealed	sealed	sealed		292.62	sealed	305.50
Feb-17	296.58	sealed	sealed	sealed		293.08	sealed	305.58
Mar-17	296.31	sealed	sealed	sealed		289.78	sealed	305.56
Apr-17	296.48	sealed	sealed	sealed		291.54	sealed	306.14
May-17	295.49	sealed	sealed	sealed		292.75	sealed	305.99
Jun-17	295.53	sealed	sealed	sealed		292.62	sealed	305.50
Jul-17	295.28	sealed	sealed	sealed		290.61	sealed	305.82
Aug-17	295.72	sealed	sealed	sealed		291.34	sealed	305.79
Sep-17	296.58	sealed	sealed	sealed		291.09	sealed	305.73
Oct-17	295.44	sealed	sealed	sealed		291.39	sealed	305.64
Nov-17	295.64	sealed	sealed	sealed		292.76	sealed	305.63
Dec-17	297.16	sealed	sealed	sealed		291.11	sealed	305.73

Notes: · All elevations in metres above sea level
· Blank indicates data not available