

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S2	2016-05-02	< 0.001	220	< 0.0005	< 0.15	< 2	< 0.02	< 0.0001	73	36	17	< 0.005	< 0.005	< 0.0005	< 0.0005	466	< 0.002	7.67	470	9.29	230	0.16	< 0.0005	9.4	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.026	2.1	12	< 1	266	< 1	< 0.01	
S2	2017-05-01	< 0.001	160	0.021	2.26	2	< 0.02	< 0.0001	54	39	11	< 0.005	< 0.005	< 0.0005	< 0.0005	390	0.002			8.4	170	0.7	< 0.0005	8	< 0.00005	0.001	4.92	0.093	< 0.001	0.071	2.5	9.2	< 1	234	< 10	< 0.01	
S2	2017-07-25	< 0.001	170	< 0.0014	< 0.15	< 2	< 0.02	< 0.0001	58	53	11	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			17.1	160	0.28	< 0.0005	6.5	< 0.00005	< 0.001	< 0.1	< 0.01	0.003	0.047	2	8.3	< 10	208	< 10	< 0.01	
S2	2017-10-16	< 0.001	200	< 0.0006	< 0.15	< 2	0.022	< 0.0001	67	59	16	< 0.005	< 0.005	< 0.0005	0.0006	420	< 0.002	1.34	330	11.12	210	0.64	< 0.0005	9.5	< 0.00005	0.001	< 0.1	< 0.01	0.0022	0.097	5.2	9.7	16	320	< 10	< 0.01	
S2	2018-05-16	< 0.001	200	< 0.00061	< 0.15	3	< 0.02	< 0.0001	68	44	13	< 0.005	< 0.005	< 0.0005	< 0.0005	410	< 0.002	3.34	390	13.11	180	0.6	< 0.0005	9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.061	1.9	11	< 1	150	< 10	< 0.01	
S2	2018-08-09	< 0.001	98	< 0.0005	< 0.15	2	0.038	0.0002	84	62	9	< 0.005	< 0.005	< 0.0005	0.0005	550	0.008	4.3	540	21.3	250	< 0.1	< 0.0005	12	< 0.00005	0.003	17.3	0.309	< 0.001	0.17	2.8	12	77	425	< 10	0.015	
S2	2018-10-16	< 0.001	290	< 0.00061	< 0.15	< 2	< 0.02	< 0.0001	100	26	16	< 0.005	< 0.005	< 0.0005	0.0024	660	< 0.002		610	7	300	2.2	< 0.0005	15	< 0.00005	0.002	< 0.1	< 0.01	< 0.001	0.14	2.6	14	40	305	17	< 0.01	
S2	2019-05-06	< 0.001	180	0.0033	0.53	< 2	< 0.02	< 0.0001	72	29	19	< 0.005	< 0.005	0.0013	< 0.0005	410	0.003	3.74	330	10.76	200	0.12	< 0.0005	9.5	< 0.00005	0.001	0.18	< 0.01	< 0.001	0.036	2.3	15	< 1	280	< 10	< 0.01	
S2	2019-10-31	< 0.001	110	< 0.00061	0.26	< 2	< 0.02	< 0.0001	49	34	21	< 0.005	< 0.005	0.00093	< 0.0005	360	0.005	2.74	290	11.91	150	0.27	< 0.0005	6.2	< 0.00005	0.001	0.28	< 0.01	< 0.001	0.038	3.6	13	35	215	< 10	< 0.01	
S2	2020-04-15	< 0.001	140	0.0092	3.1	< 2	< 0.02	< 0.0001	47	22	17	< 0.005	< 0.005	0.0011	< 0.0005	340	< 0.002	10.1	356	5.3	140	0.13	< 0.0005	5.7	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.5	10	< 1	245	< 10	< 0.01	
S2	2021-05-04	< 0.001	180	0.0035	0.164	< 2	< 0.02	< 0.0001	63	38	18	< 0.005	< 0.005	< 0.0005	< 0.0005	400	< 0.002	8.4	417	12	180	0.15	< 0.0005	7.6	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.037	1.7	12	< 1	240	< 10	< 0.01	
S3	1989-03-27		26		0.24						3.9				85						36	0.16					0.61		0.003	0.087							
S3	1989-04-24		171		0.005						31				460						210	0.04					ND		ND	0.016							
S3	1989-05-12		182		0.012						27				470						230	0.08					ND		ND	0.017							
S3	1990-05-10		217		ND				73		15				432							0.12		10.2			ND		ND	ND	2.8	8.8					
S3	1990-10-01		280		ND				83		142				954							0.19		25			3.2		ND	ND	15.5	75					
S3	1992-07-29		272		0.45	1		ND	93		43		ND		852	ND						0.09	ND	27		ND	0.14		ND	0.26	6	19			14	0.18	
S3	1992-11-27		148		0.02	ND		ND	51		8		ND		321	0.009			5.2			0.68	ND	7		ND	ND		ND	ND	2	5			9	0.03	
S3	1993-04-30				0.02	1		ND			16		ND		452	ND			12.1			0.19	ND			ND			ND	ND				260	9	0.02	
S3	1994-05-01		210		ND	2.1		ND			24.8		ND		270	0.011			19.5	310		0.1	ND			ND	ND		1						1.6	ND	
S3	1994-11-25		200		ND	ND		ND			93.5		0.00045		820	0.0069					700	0.16	ND			0.002	ND		ND						37	ND	
S3	1995-03-28		150	ND	ND	2.8		ND			23.5		ND		420	0.0028					220	0.064	ND			ND	ND		ND	0.14					1.6	0.02	
S3	1995-11-02		155	ND	0.02	1		ND			22		ND		421	ND			10	224		0.44	ND			ND	ND		ND	0.03					6	ND	
S3	1996-04-01		101		ND	ND					10				250							126					ND		ND	0.03					5		
S3	1997-05-01		166		ND	7					15		0.03		371	ND					190	0.12	ND			ND	ND		ND	0.02					5	ND	
S3	1997-11-01		135		0.02	1		ND			17		0.01		392						180	0.16					ND		ND	0.04				236		ND	
S3	1997-12-01		160		0.02		0.01	ND	56	25	18		ND		ND	380	ND				173	0.07	ND	8		ND	ND		ND		2	8	16			ND	
S3	1998-05-12		279		0.05			ND		ND	19		ND		606	ND					302	0.39	ND			ND	ND		ND	0.1					2	ND	
S3	1998-12-23		187		0.07	2		ND			72		ND		710							281	0.1				0.51		ND				440		0.01		
S3	1999-04-07		114		ND	ND		ND			11		ND		287							140	0.03				ND		ND	ND				181		ND	
S3	2000-05-02		212		ND	2		ND			25		ND		501							249	0.09				ND		ND	0.05				300		ND	
S3	2000-11-10		234		0.02	ND		ND			36		ND		583								0.23				ND		ND	0.04				368		ND	
S3	2001-05-24		285		0.06	6		ND	95		38		ND		672						307	0.41		17			ND		ND	0.05				408		ND	
S3	2001-11-30		114		0.17	ND		ND			21		ND		360								0.3				1.01	ND	ND	0.08			234	6	ND		
S3	2002-04-29		133	0.00106	0.09	ND		ND			17		0.003		327				6.5				0.34				ND		ND	0.02				213		ND	
S3	2002-12-20		146	0.00166	0.2	3		ND			44		ND		511				0.7				0.4				0.77		ND	0.07				332		ND	
S3	2003-04-10		120		< 0.02	< 1		< 0.0001			20		< 0.005		322				0				0.23				0.46		< 0.001	0.03				209		< 0.005	
S3	2003-05-15		194		0.04	< 1		< 0.0001			28		< 0.005		477								0.15				< 0.1		< 0.001	0.03				310		< 0.005	
S3	2003-05-29																		5050	16.3																	
S3	2003-10-24		186	< 0.00035	< 0.02	< 1		< 0.0001	88		39		0.002		584				11780	2.5	277	0.11		14			0.61		< 0.001	0.03				380		< 0.01	
S3	2004-04-23		202	< 0.00061	< 0.02	< 1		< 0.0001	73		26		0.002		481	0.001	8.3	4.94	8.6	228	0.11	< 0.001	11		< 0.005	< 0.1		< 0.001	0.02				313	< 2	< 0.01		
S3	2004-11-09		225	0.00398	0.2	2		< 0.0001	95		37		< 0.001		595	0.002		0.632	1.7	295	0.17	< 0.001	14		< 0.005	< 0.1		< 0.001	0.04				387	5	< 0.01		
S3	2005-04-25		185	0.00509	0.07	< 1		< 0.0001	80		29		0.002		441	< 0.001		458	6.4	249	0.09	< 0.001	12		< 0.005	0.12		< 0.001	0.02				287	< 2	< 0.01		
S3	2005-10-28							< 0.0001	74				0.001			0.002		544	4.95	242	0.09	< 0.001	14		< 0.005								4		< 0.01		
S3	2006-02-06		130	0.00088	0.02	< 1		< 0.0001	43		18		0.001		319	< 0.001		335	0.4	136	0.09	< 0.001	7		< 0.005	0.12		< 0.001									

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S3	2009-06-02		230	< 0.02	< 0.15	< 2		< 0.0001	75		22		< 0.005			521	< 0.002			12.2	230	0.1	< 0.0005	11		< 0.001	< 0.1	< 0.01	< 0.001	0.025					330	< 1	< 0.01	
S3	2009-11-24		181	< 0.02	< 0.15	< 2		< 0.0001	68		31		< 0.005			467	< 0.002			3.94	210	< 0.1	< 0.0005	10		< 0.001	< 0.1	< 0.01	< 0.001	0.014					310	1	< 0.01	
S3	2010-05-03		288	< 0.02	< 0.15	< 2	0.023	< 0.0001		49	27		< 0.005		< 0.0005	618	< 0.002	4.53	699	17.4		0.33	< 0.0005				< 0.1	< 0.01	< 0.001	0.041	3.4	17	< 1	400	6	< 0.01		
S3	2010-10-25		250	< 0.02	< 0.15	< 2	0.034	< 0.0001	95	36	35		< 0.005			613	< 0.002			7.24	260	0.12	< 0.0005	15	< 0.0005		< 0.1	< 0.01	< 0.001	0.031	3.9	19	21	392	2	< 0.01		
S3	2011-05-02		201	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	73	30	21		< 0.005		< 0.0005	455	< 0.002			12.38	200	0.12	< 0.0005	9.9	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.034	2.6	13	< 1	272	< 1	0.013		
S3	2011-10-28		150	< 0.02	< 0.15	< 2	< 0.043	< 0.0001	74	28	40		< 0.005		< 0.0005	588	0.003			4.05	250	0.24	< 0.0005	11	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	7.1	21	74	402	1	< 0.01		
S3	2012-04-23		220	< 0.02	< 0.15	< 2	0.022	< 0.0001	78	45	19		< 0.005		< 0.0005	486	< 0.002			6.19	230	0.48	< 0.0005	13	< 0.0025	< 0.001	< 0.1	< 0.01	0.0015	0.09	3.6	13	9	220	11	< 0.01		
S3	2012-10-24		200	< 0.02	< 0.15	< 2	0.055	< 0.0001	95	27	63		< 0.005		0.0005	753	0.003			9.38	310	0.81	< 0.0005	17	< 0.0005	< 0.001	< 0.1	< 0.05	< 0.001	0.058	8.3	41	80	466	76	0.012		
S3	2013-04-25		190		< 0.15	< 2	< 0.02	< 0.0001	67	15	17		< 0.005		< 0.0005	427	< 0.002				200	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.016	1.9	11	13	256	2	< 0.01		
S3	2013-07-09		310		0.16	< 2	0.066	< 0.0001	130	14	82		< 0.005		0.0005	919	< 0.002				380	0.42	< 0.0005	20	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.048	9.5	50	49	590	2	< 0.01		
S3	2013-09-23		160		< 0.15	< 2	0.033	< 0.0001	64	33	14		< 0.005		< 0.0005	419	0.004				190	0.47	< 0.0005	10	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.11	4.2	10	37	276	5	< 0.01		
S3	2013-10-22		270		< 0.15	< 2	< 0.02	< 0.0001	95	20	24	< 0.005	< 0.005	< 0.0005	< 0.0005	615	< 0.002				260	0.16	< 0.0005	15	< 0.0005	< 0.001	< 0.1	< 0.01	0.0017	0.049	4.6	16	22	374	2	< 0.01		
S3	2014-04-15		130		< 0.15	< 2	< 0.02	< 0.0001	2.7	22	14	< 0.005	< 0.005	< 0.0005	< 0.0005	296	< 0.002				140	< 0.02	< 0.0005	0.6	< 0.0005	< 0.001	< 0.1	< 0.01	0.0011	0.019	< 1	1.5	6	212	1	< 0.01		
S3	2014-05-05		180		1.2	< 2	< 0.02	< 0.0001	71	20	26	< 0.005	< 0.005	< 0.0005	< 0.0005	435	< 0.002				200	0.02	< 0.0005	9.4	< 0.0005	< 0.001	< 0.1	< 0.01	0.001	0.015	3	16	4	244	1	< 0.01		
S3	2014-10-02	< 0.001																																				
S3	2014-10-20		260	< 0.00063	< 0.15	< 2	0.026	< 0.0001	100	21	59	< 0.005	< 0.005	< 0.0005	0.0009	735	0.002			7.64	280	3.5	0.0009	16	< 0.0005	0.002	< 0.1	< 0.01	< 0.001	0.12	11	41	49	460	2	0.01		
S3	2015-04-21		160	< 0.0016	< 0.15	< 2	< 0.02	< 0.0001	60	30	18	< 0.005	< 0.005	< 0.0005	< 0.0005	366	< 0.002	12	370	10.66	170	0.16	< 0.0005	8.5	< 0.0005	< 0.001	< 0.1	< 0.01	0.0046	0.039	2	11	11	210	2	< 0.01		
S3	2015-09-14	< 0.001	150	0.0041	0.59		0.052	< 0.0001	69	26	33	< 0.005	< 0.005	< 0.0005	< 0.0005	530	0.002			560	15.1	210	0.63	< 0.0005	9.4	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.11	6	22	58	368	3	< 0.01	
S3	2015-11-23	< 0.001	200	0.0011	0.28		< 0.02	< 0.0001	76	21	24	< 0.005	< 0.005	< 0.0005	< 0.0005	484	< 0.002			430	1.12	230	0.07	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	3	13	14	270	< 1	< 0.01	
S3	2016-05-02	< 0.001	230	< 0.00073	< 0.15	< 2	< 0.027	< 0.0001	72	21	18	< 0.005	< 0.005	< 0.0005	< 0.0005	478	< 0.002	9.65	480	8.53	240	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.015	1.9	12	< 1	244	< 1	< 0.01		
S3	2016-08-15	< 0.001	320	0.0015	0.45	< 2	0.13	< 0.0001	160	17	77	< 0.005	< 0.005	< 0.0005	< 0.0005	1100	< 0.002	4.62	1000	13.49	490	0.92	< 0.0005	30	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.099	12	56	160	1020	< 10	< 0.01		
S3	2016-10-18	< 0.001	130	0.0011	0.27	< 2	0.051	< 0.0001	88	34	34	< 0.005	< 0.005	< 0.0005	0.0005	660	0.003	9.58	730	13.65	270	0.41	< 0.0005	12	< 0.00005	0.001	1.95	0.015	< 0.001	0.086	4.7	21	160	454	13	< 0.01		
S3	2017-05-01	< 0.001	170	0.0022	0.31	2	0.02	< 0.0001	57	24	18	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002			8.3	170	0.86	< 0.0005	8.6	< 0.00005	0.002	< 0.1	0.023	< 0.001	< 0.03	2.3	12	< 1	236	11	< 0.01		
S3	2017-07-25	< 0.001	170	< 0.0019	< 0.15	< 2	0.024	< 0.0001	54	38	10	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			17.1	160	0.26	< 0.0005	7.4	< 0.00005	< 0.001	< 0.1	< 0.01	0.0022	0.048	2	8.8	< 1	192	< 10	< 0.01		
S3	2017-10-16	< 0.001	250	< 0.00093	< 0.15	< 2	0.049	< 0.0001	76	24	19	< 0.005	< 0.005	< 0.0005	< 0.0005	500	< 0.002	6.52	380	11.76	260	0.1	< 0.0005	11	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.039	3.3	15	3.6	310	62	< 0.01		
S3	2018-05-16	< 0.001	230	< 0.00062	< 0.15	< 2	< 0.02	< 0.0001	76	31	17	< 0.005	< 0.005	< 0.0005	< 0.0005	480	< 0.002	2.54	460	12.98	210	0.12	< 0.0005	11	< 0.00005	0.001	0.24	< 0.01	< 0.001	< 0.03	2.3	14	< 1	195	< 10	< 0.01		
S3	2018-08-09	< 0.001	320	< 0.0005	< 0.15	< 2	0.09	< 0.0001	130	18	91	< 0.005	< 0.005	< 0.0005	0.0006	960	< 0.002	4.28	870	18.3	340	2.2	< 0.0005	19	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.13	12	64	52	570	34	< 0.01		
S3	2018-10-16	< 0.001	310	< 0.00061	< 0.15	< 2	0.05	< 0.0001	110	9.8	100	< 0.005	< 0.005	< 0.0005	< 0.0005	980	< 0.002			970	8.1	340	1.2	< 0.0005	19	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	13	59	51	520	60	< 0.01	
S3	2019-05-06	< 0.001	170	< 0.00061	0.7	2	< 0.02	< 0.0001	61	23	16	< 0.005	< 0.005	0.0013	< 0.0005	400	< 0.002	4.61	390	11.67	180	< 0.1	< 0.0005	8.2	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2	11	< 1	255	< 10	< 0.01		
S3	2019-10-31	< 0.001	97	0.14	1.9	< 2	0.022	< 0.0001	45	25	17	< 0.005	< 0.005	0.00089	< 0.0005	340	0.004	4.62	270	11.45	140	0.26	< 0.0005	6.4	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.058	3.8	11	39	190	< 10	< 0.01		
S3	2020-01-16	< 0.001	130	0.0011	0.14	< 2	< 0.02	< 0.0001	45	16	16	< 0.005	< 0.005	< 0.0005	< 0.0005	330	< 0.002	4.63	350	0.13	150	< 0.1	< 0.0005	6.4	< 0.00005	< 0.001	0.19	< 0.01	< 0.001	< 0.03	1.7	10	15	195	< 10	< 0.01		
S3	2020-01-23	< 0.001	170	0.028	51	< 2	< 0.02	< 0.0001	58	22	20	< 0.005	< 0.005	0.00067	< 0.0005	380	< 0.002	4.89	270	0	180	0.19	< 0.0005	8.1	< 0.00005	< 0.001	0.18	< 0.01	< 0.001	< 0.03	1.9	14	16	225	< 10	< 0.01		
S3	2020-01-30	< 0.001	160	< 0.00061	0.11	< 2	< 0.02	< 0.0001	55	22	21	< 0.005	< 0.005	0.00097	< 0.0005	410	< 0.002	76	280	0.5	190	< 0.1	< 0.0005	8	< 0.00005	< 0.001	0.27	< 0.01	< 0.001	< 0.03	1.8	12	15	220	< 10	0.019		
S3	2020-02-05	< 0.001	180	< 0.00061	0.41	< 2	< 0.02	< 0.0001	6																													

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L		
S5	1996-04-01		174		ND	ND					7				378						196						ND		ND	0.03					5			
S5	1997-05-01		200		0.02	8					6		0.02		406	ND					223	0.18	ND			ND	0.49		ND	0.05					6	ND		
S5	1997-11-01		212		0.09	ND		ND			21		ND		606						299	0.06					4.15		ND	0.08				364		ND		
S5	1997-12-01		331		0.09		0.02	ND	129	22	59		ND		ND	852	ND				397	0.1	ND	18		ND	0.37		ND			14	26	50		ND		
S5	1998-05-12		280		1.13			ND		ND	4		ND		587	ND					310	0.71	ND			ND	3.64		ND	0.45					87	0.02		
S5	1999-04-07		158		ND	2		ND			8		ND		353						186	0.01					0.95		ND	0.04					230	ND		
S5	2000-05-02		225		ND	2		ND			14		ND		497						271	0.11					0.69		ND	0.03					300	ND		
S5	2000-11-10		186		0.03	ND		ND			22		ND		473							0.17					ND		ND	0.16					304	ND		
S5	2001-11-30		122		0.16	2		ND			15		ND		372							0.27					2.45	ND	ND	0.36					242	7	ND	
S5	2002-04-29		141	0.00194	0.09	ND		0.0001			1		0.004		291					6.9		0.31					ND		ND	0.03					189	ND		
S5	2002-12-20		184	0.00621	0.75	5		ND			17		ND		490					0.7		0.32					0.73		0.002	0.29					319	ND		
S5	2003-03-24		89		0.27	<1		<0.0001			2		<0.005		190					0		0.06					0.19		<0.001	0.06					123	<0.005		
S5	2003-05-15		230		0.04	<1		<0.0001			3		<0.005		441												<0.1		<0.001	0.05					287	<0.005		
S5	2003-05-29																																					
S5	2003-11-18		212		0.04	<1		<0.0001	74		8		0.001		452						230	0.03					<0.1		<0.001	0.02					294		<0.01	
S5	2004-04-23		225	0.00059	0.03	<1		<0.0001	75		3		0.002		426	0.001	12.9	4.38	8.4	237	0.07	<0.001	12		<0.005	<0.1		<0.001	0.02					277	<2	<0.01		
S5	2005-01-13		49	0.02467	0.34	5		<0.0001	15		4		<0.005		120	<0.001			125.4	0.2	50	0.1	<0.001	3		<0.005	0.6		0.002	0.08				78	5	<0.01		
S5	2005-04-25		216	0.00281	0.05	<1		<0.0001	84		2		0.001		407	<0.001			410	8.7	263	0.04	<0.001	13		<0.005	<0.1		<0.001	0.03				265	2	<0.01		
S5	2005-09-27		99		0.07	6		<0.0001	43		6		0.002		270	0.004					126	0.14	<0.001	4		<0.005	0.3		<0.001	0.28				176	9	<0.01		
S5	2006-02-06		142	<0.00079	<0.02	<1		<0.0001	45		1		<0.001		277	<0.001			286	0.5	141	0.05	<0.001	7		<0.005	<0.1		<0.001	0.03				180	2	<0.01		
S5	2006-03-14		105	0.00023	0.03	<1		<0.0001	32		2		<0.001		210	0.001			125	3.42	100	0.03	<0.001	5		<0.005	<0.1		<0.001	0.05				137	3	<0.01		
S5	2006-05-01		256	0.00092	0.05	1	0.01	<0.0001	74	23	3		0.002		476	0.001			492	20.5	242	0.08	<0.001	14		<0.005	<0.1	<0.1	<0.001	0.1				309	12	<0.01		
S5	2006-11-14		210	<0.00016	<0.02	<1		<0.0001	65		3		<0.001		422	0.001			424	7.27	203	0.07	<0.001	10		<0.005	<0.1		<0.001	0.05				274	5	<0.01		
S5	2007-04-17		160	<0.00017	<0.02	<1		<0.0001	50		1		<0.001		311	<0.001			304	3.85	158	<0.03	<0.001	8		<0.005	<0.1		<0.001	0.03				202	<2	<0.01		
S5	2008-05-15		241	<0.02	<0.15	<2		<0.0001	82		2		<0.005		446	<0.002			458	13.8	230	0.56	0.0005	13		<0.001	<0.1		<0.001	0.12				310	10	0.015		
S5	2008-11-17		216	<0.02	<0.15	<2		<0.0001	75		3		<0.005		442	<0.002			468	4	210	<0.1	<0.0005	13		<0.001	<0.1	<0.01	<0.001	0.03				290	1	<0.01		
S5	2009-03-11		83	<0.02	0.25			<0.0001	26		3		<0.005		172	<0.002					2.32	81	<0.1	<0.0005	3.6		<0.001	<0.1	<0.01	<0.001	0.09				110	2	<0.01	
S5	2009-06-02		253	<0.02	<0.15	<2		<0.0001	76		<1		<0.005		462	<0.002			12.5	240	<0.1	<0.0005	14		<0.001	<0.1	<0.01	0.001	0.037					300	2	<0.01		
S5	2009-11-24		215	<0.02	<0.15	<2		<0.0001	69		3		<0.005		428	<0.002			4.23	220	<0.1	<0.0005	14		<0.001	<0.1	<0.01	<0.001	0.02					285	1	<0.01		
S5	2010-10-25		276	<0.02	<0.15	<2	<0.02	0.0002	99	32	32		<0.005		616	0.004					8.03	310	0.19	<0.0005	20	<0.0005		<0.1	<0.01	<0.001	0.11	5.2	8.2	13	392	18	<0.01	
S5	2011-05-02		237	<0.02	<0.15	<2	<0.02	<0.0001	81	22	4		<0.005	<0.0005	462	<0.002					11.77	240	<0.1	<0.0005	13	<0.0005	<0.001	<0.1	<0.01	<0.001	0.031	1.9	4.3	<1	270	<1	<0.01	
S5	2012-04-23		240	<0.02	<0.15	<2	<0.02	<0.0001	76	35	7		<0.005	<0.0005	479	<0.002					5.59	240	0.37	<0.0005	16	<0.0025	<0.001	0.11	<0.01	0.0015	0.098	4.2	6.8	16	250	3	<0.01	
S5	2013-04-25		200		<0.15	<2	<0.02	<0.0001	68	23	4		<0.005	<0.0005	406	<0.002					210	0.47	<0.0005	12	<0.0005	<0.001	<0.1	<0.01	<0.001	0.089	2.1	5	10	206	7	<0.01		
S5	2013-09-23		130		<0.15	<2	<0.02	<0.0001	52	40	4		<0.005	<0.0005	327	0.003					160	0.21	<0.0005	9.6	<0.0005	<0.001	<0.1	<0.01	<0.001	0.1	2.9	5.3	36	234	4	<0.01		
S5	2014-05-05		240		0.64	2	<0.02	<0.0001	79	32	3	<0.005	<0.005	<0.0005	<0.0005	460	<0.002					250	0.37	<0.0005	14	<0.0005	<0.001	<0.1	<0.01	<0.001	0.13	2	5	8	252	18	<0.01	
S5	2015-04-21		190	0.0046	0.23	<2	<0.02	<0.0001	63	17	3	<0.005	<0.005	<0.0005	<0.0005	376	<0.002	8.4	290	13.26	190	0.15	<0.0005	11	<0.0005	<0.001	0.22	0.083	0.0045	0.055	2	4	13	210	2	<0.01		
S5	2015-11-23	<0.001	290	<0.00067	<0.15		<0.02	<0.0001	91	14	2.9	<0.005	<0.005	<0.0005	<0.0005	562	<0.002			500	1.49	290	0.05	<0.0005	17	<0.0005	<0.001	<0.1	<0.01	<0.001	0.034	2	6	15	316	1	<0.01	
S5	2016-05-02	<0.001	280	<0.00078	<0.15	<2	<0.02	<0.0001	83	15	2.2	<0.005	<0.005	<0.0005	<0.0005	524	<0.002	10.52	480	8.3	290	<0.1	<0.0005	16	<0.0005	<0.001	<0.1	<0.01	<0.001	0.019	1.7	5.2	3.1	286	<1	<0.01		
S5	2017-05-01	<0.001	160	<0.002	<0.15	<2	<0.02	<0.0001	52	29	2.4	<0.005	<0.005	<0.0005	<0.0005	320	<0.002			10.4	160	0.13	<0.0005	8.3	<0.00005	<0.001	0.22	0.015	<0.001	0.036	1.7	3.1	<1	188	<10	<0.01		
S5	2017-07-25	<0.001	170	<0.0018	<0.15	<2	<0.02	<0.0001	50	28	1.1	<0.005	<0.005	<0.0005	<0.0005	310	<0.002			18.7	160	0.2	<0.0005	9.7	<0.00005	<0.001	<0.1	<0.01	0.0016	0.046	1.6	2.7	<1	160	<10	<0.01		
S5	2017-10-16	<0.001	200	<0.0011	<0.15	<2	<0.02	<0.0001	63	29	2.7	<0.005	<0.005	<0.0005	<0.0005	360	<0.002	4.63	290	11.04	230	0.4	<0.0005	12	<0.00005	0.001	<0.1	<0.01	<0.001	0.07	2.1	4.5	23	255	16	<0.01		
S5	2018-05-16	<0.001	310	0.0015	0.17	<2	<0.02	<0.0001	93	24	2.1	<0.005	<0.005	<0.0005	<0.0005	550	<0.002	3.58	490	14.69	290	0.58	<0.0005	18	<0.00005	0.001	<0.1	<0.01	<0.001	0.044	1.9	5.7	<5	220	<10	<0.01		

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S6	1996-04-30																			12.5																	
S6	1997-05-01		158		0.03	0.02					14		ND			357	ND				188	0.19	ND				ND	ND		0.036	0.02					ND	ND
S6	1997-11-01		127		0.02	ND		ND			16		ND			371					175	0.16					ND		ND	0.03				224		ND	
S6	1997-12-01		153		0.03		ND	ND	54	28	16		ND		ND	373	ND				168	0.09	ND	8			ND	ND		ND		2	7	15		ND	
S6	1998-05-12		271		0.08			ND		8	12		ND			563	ND				286	1.83	ND				ND	ND		ND	0.26				432	ND	
S6	1998-12-23		174		0.38	4		ND			61		ND			648					270	0.2						1.02						410		ND	
S6	1999-04-07		112		ND	7		ND			10		ND			264					132	ND						ND		ND	0.02				170		ND
S6	2000-05-02		202		ND	ND		ND			19		ND			466					240	0.09						ND		ND	0.02				280		ND
S6	2000-11-10		218		0.02	ND		ND			16		ND			464						0.22						ND		ND	0.05				312		ND
S6	2001-05-24		259		0.13	2		ND	73		12		ND			536						1.89		13				ND		ND	0.13				336		ND
S6	2001-11-30		100		0.07	ND		ND			14		ND			295						0.34							1.25	ND	ND	0.06			192	4	ND
S6	2002-04-29		132	0.00022	0.02	2		0.0003			17		0.003			326				5.3		0.35						ND		ND	0.02			212		ND	
S6	2002-12-20		143	0.00676	1.29	4		ND			49		ND			515				0.7		0.33							1.63	ND	0.06				335		ND
S6	2003-05-15		188		0.06	< 1		< 0.0001			23		< 0.005			447						0.18						< 0.1		< 0.001	0.03				291		< 0.005
S6	2003-05-29																			4950	13.1																
S6	2003-10-24		164		< 0.02	1		< 0.0001	81		37		0.002			509					5220	1.9	252					1.12		< 0.001	0.04				331		< 0.01
S6	2004-04-23		197		0.03	< 1		< 0.0001	69		22		0.002			448	0.001	10.6	4.66	9.7	213	0.14	< 0.001	10			< 0.005	< 0.1		< 0.001	0.02				291	< 2	< 0.01
S6	2004-11-09		205		< 0.02	< 1		< 0.0001	88		29		0.001			531	0.002		0.565	0.7	269	0.31	< 0.001	12			< 0.005	0.15		< 0.001	0.07			345	16	< 0.01	
S6	2005-04-25		182	0.00274	0.04	< 1		< 0.0001	75		26		< 0.001			430	0.002		445	7.5	233	0.11	< 0.001	11			< 0.005	< 0.1		< 0.001	0.02				280	2	< 0.01
S6	2005-10-28							< 0.0001	64				0.001				0.002		424	4.56	209	0.08	< 0.001	12			< 0.005									< 2	< 0.01
S6	2006-05-01		220	0.00079	0.06	1		< 0.0001	75		29		< 0.001			488	0.001		505	18.9	228	0.07	< 0.001	10			< 0.005	< 0.1		< 0.001	0.07				317	4	< 0.01
S6	2006-11-14		160	< 0.00012	< 0.02	< 1		< 0.0001	61		19		0.001			391	0.001		396	7.16	185	0.24	< 0.001	8			< 0.005	0.52		< 0.001	0.04				254	< 2	< 0.01
S6	2007-04-17		134	0.00119	0.11	< 1		< 0.0001	48		17		< 0.001			332	0.001		293	5.11	149	0.14	< 0.001	7			< 0.005	0.18		< 0.001	0.04				216	< 2	< 0.01
S6	2008-05-15		205	< 0.02	< 0.15	< 2		< 0.0001	74		19		< 0.005			441	< 0.002		447	16.4	210	0.3	< 0.0005	9.9			< 0.001	< 0.1		< 0.001	< 0.06				300	3	< 0.01
S6	2008-11-17		171	< 0.02	< 0.15	< 2		< 0.0001	66		24		< 0.005			432	0.003		455	3.9	180	0.25	< 0.0005	10			< 0.001	< 0.1	< 0.01	< 0.001	< 0.03				280	2	< 0.01
S6	2009-06-02		222	< 0.02	< 0.15	< 2		< 0.0001	75		21		< 0.005			483	< 0.002			12.2	220	0.29	< 0.0005	11			< 0.001	< 0.1	< 0.01	< 0.001	0.036				310	2	< 0.01
S6	2009-11-24		174	< 0.02	< 0.15	< 2		< 0.0001	61		27		< 0.005			443	< 0.002			3.91	200	0.12	< 0.0005	9.2			< 0.001	< 0.1	< 0.01	< 0.001	0.016				295	3	< 0.01
S6	2011-10-28		152	< 0.02	< 0.15	< 2	0.024	< 0.0001	69	28	24		< 0.005		< 0.0005	499	0.003			3.07	230	0.12	< 0.0005	11	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.066	5.1	11	57	344	2	< 0.01	
S6	2012-04-23		230	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	75	41	16		< 0.005		< 0.0005	478	< 0.002			6.42	230	0.49	< 0.0005	12	< 0.0025	< 0.001	< 0.1	< 0.01	0.002	0.08	2.8	10	12	220	4	< 0.01	
S6	2012-10-24		130	< 0.02	< 0.15	2	0.044	< 0.0001	65	34	37		< 0.005		< 0.0005	500	0.004			9.2	200	< 0.1	< 0.0005	11	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.079	5.3	19	49	324	31	< 0.01	
S6	2013-04-25		180		< 0.15	< 2	< 0.02	< 0.0001	62	18	16		< 0.005		< 0.0005	421	< 0.002				200	< 0.1	< 0.0005	9.3	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.017	1.7	9.9	12	238	< 1	< 0.01	
S6	2013-09-23		160		< 0.15	< 2	0.026	< 0.0001	65	36	11		< 0.005		0.0005	401	0.005				190	1.6	0.0007	11	< 0.0005	0.002	0.14	0.016	< 0.001	0.11	4.8	8.9	35	280	10	< 0.01	
S6	2013-10-22		280		< 0.15	< 2	< 0.02	< 0.0001	99	29	20	< 0.005	< 0.005	< 0.0005	0.0009	620	< 0.002				270	1.2	0.0006	16	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.0019	0.14	4.1	14	22	370	20	< 0.01
S6	2014-05-05		180		1.26	< 2	< 0.02	< 0.0001	69	23	26	< 0.005	< 0.005	< 0.0005	< 0.0005	431	< 0.002				200	0.05	< 0.0005	9.1	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.016	3	16	2	234	2	< 0.01	
S6	2014-10-20		340	< 0.0006	< 0.15	2	0.041	0.0002	120	60	26	< 0.005	< 0.005	< 0.0005	0.013	714	0.013			7.11	320	18	0.0072	24	< 0.0005	0.012	0.22	< 0.01	< 0.001	0.57	9	23	11	406	40	0.071	
S6	2015-04-21		150	< 0.0016	< 0.15	< 2	< 0.02	< 0.0001	57	24	20	< 0.005	< 0.005	< 0.0005	< 0.0005	369	< 0.002	10	270	10.88	160	0.17	< 0.0005	7.8	< 0.0005	< 0.001	< 0.1	< 0.01	0.0053	0.033	2	11	9	210	2	< 0.01	
S6	2015-09-14	< 0.001	170	0.006	0.35		0.029	< 0.0001	72	31	19	< 0.005	< 0.005	< 0.0005	< 0.0005	516	0.002			550	16.1	230	0.18	< 0.0005	11	< 0.0005	< 0.001	0.21	< 0.01	< 0.001	0.11	5	15	61	368	3	< 0.01
S6	2015-11-23	< 0.001	210	0.0009	0.16		< 0.02	< 0.0001	75	27	24	< 0.005	< 0.005	< 0.0005	< 0.0005	487	< 0.002			430	1.49	230	0.17	< 0.0005	9.7	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.021	3	13	13	284	2	< 0.01
S6	2016-05-02	< 0.001	220	< 0.00063	< 0.15	< 2	< 0.02	< 0.0001	74	26	16	< 0.005	< 0.005	< 0.0005	< 0.0005	467	< 0.002	9.17	460	8.76	240	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.018	1.8	11	< 1	256	2	< 0.01	
S6	2017-05-01	< 0.001	170	< 0.0017	< 0.15	2	< 0.02	< 0.0001	59	35	17	< 0.005	< 0.005	< 0.0005	< 0.0005	370	< 0.002			9.4	180	0.47	< 0.0005	8.6	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.033	2.1	11	< 1	230	< 10	< 0.01	
S6	2017-07-25	< 0.001	160	0.0021	0.18	< 2	< 0.02	< 0.0001	53	39	8.9	< 0.005	< 0.005	< 0.0005	< 0.0005	320	< 0.002			17.3	150	0.33	< 0.0005	7	< 0.0005	< 0.001	< 0.1	< 0.01	0.0028	0.046	2	7.9	< 1	184	< 10	< 0.01	
S6	2017-10-16	< 0.001	250	< 0.001	< 0.15	< 2	0.047	< 0.0001	77																												

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S7	1997-05-01		166		ND	7					17		0.02			374	ND				193	0.16	ND			ND	ND		ND	0.01					2	ND	
S7	1997-11-01		134		ND	ND		ND			22		ND			397					190	0.16					ND		ND	0.04					228		ND
S7	1997-12-01		148		ND		0.01	ND	54	28	18		ND		ND	367	ND				168	0.09	ND	8		ND	ND		ND		2	8	15			ND	
S7	1998-05-12		270		0.07			ND		ND	14		ND			572	ND				293	1.22	ND			ND	ND		ND	0.16					10	ND	
S7	1998-12-23		176		0.22	2		ND			71		ND			685					282	0.14					1.03		ND					420		ND	
S7	1999-04-07		113		ND	2		ND			11		ND			270					132	0.01					ND		ND	0.02				170		ND	
S7	2000-05-02		199		ND	ND		ND			20		ND			466					238	0.1					ND		ND	ND				280		ND	
S7	2000-11-10		219		0.02	ND		ND			19		ND			482						0.22					ND		ND	0.04				300		ND	
S7	2001-05-24		266		0.08	3		ND	90		18		ND			578					287	0.55		15			ND		ND	0.1				408		ND	
S7	2001-11-30		104		0.07	ND		ND			18		ND			317						0.36						1.17	ND	ND	0.35			206	13	ND	
S7	2002-04-29		131	0.001	0.09	2		0.0001			14		0.001			517				5.3		0.48					ND		ND	0.03				206		ND	
S7	2002-12-20		143	0.0068	1.29	4		ND			54		ND			327				0.5		0.41					1.61		ND	0.05				343		ND	
S7	2003-05-15		190		0.05	< 1		< 0.0001			28		< 0.005			459						0.17					< 0.1		< 0.001	0.02				298		< 0.005	
S7	2003-05-29																		4650	14																	
S7	2003-10-24		166	< 0.00031	< 0.02	< 1		< 0.0001	82		38		0.002			528				5450	2.1	258	0.07				0.89		< 0.001	0.03				343		< 0.01	
S7	2004-04-23		201	< 0.00027	< 0.02	< 1		< 0.0001	72		26		0.002			469	0.001	10.2	4.91	9.2	225	0.13	< 0.001	11		< 0.005	< 0.1		< 0.001	0.02				305	< 2	< 0.01	
S7	2004-11-09		209	< 0.00027	< 0.02	< 1		< 0.0001	90		34		< 0.001			559	0.002		0.585	0.9	274	0.13	< 0.001	12		< 0.005	0.13		< 0.001	0.04			363	3	< 0.01		
S7	2005-04-25		182	0.00184	0.04	< 1		< 0.0001	81		27		< 0.001			432	0.002		449	7.5	252	0.1	< 0.001	12		< 0.005	< 0.1		< 0.001	0.02			281	< 2	< 0.01		
S7	2005-10-28							< 0.0001	70				0.002				0.002		506	4.89	232	0.07	< 0.001	14		< 0.005								< 2	< 0.01		
S7	2006-05-01		223	< 0.00039	< 0.02	1		< 0.0001	78		38		0.001			539	0.001		559	18.9	240	0.07	< 0.001	11		< 0.005	< 0.1		< 0.001	0.03			350	6	< 0.01		
S7	2006-11-14		162	< 0.00013	< 0.02	< 1		< 0.0001	62		24		0.002			415	0.002		420	7.06	192	0.3	< 0.001	9		< 0.005	0.47		< 0.001	0.07			270	2	< 0.01		
S7	2007-04-17		134	0.0001	0.08	< 1		< 0.0001	48		18		< 0.001			335	0.001		331	4.85	149	0.15	< 0.001	7		< 0.005	0.15		< 0.001	0.06			218	< 2	< 0.01		
S7	2007-11-07		67		< 0.02	< 1		< 0.0001	53		13		0.002			340	0.004				157	0.23	< 0.001	6		< 0.005	9.49		< 0.001	0.05			221	19	< 0.01		
S7	2008-05-15		208	< 0.02	< 0.15	2		< 0.0001	74		21		< 0.005			450	< 0.002		453	18.11	210	0.28	< 0.0005	11		< 0.001	< 0.1		< 0.001	0.06			300	1	< 0.01		
S7	2008-11-17		177	< 0.02	< 0.15	< 2		< 0.0001	67		24		< 0.005			440	0.003		226	3.4	170	0.23	< 0.0005	9.9		< 0.001	< 0.1	< 0.01	< 0.001	< 0.03			278	1	< 0.01		
S7	2009-06-02		225	< 0.02	< 0.15	< 2		< 0.0001	76		21		< 0.005			488	< 0.002			12.1	220	0.19	< 0.0005	11		< 0.001	< 0.1	< 0.01	< 0.001	0.032			300	1	< 0.01		
S7	2009-11-24		175	< 0.02	< 0.15	< 2		< 0.0001	66		27		< 0.005			444	0.002			3.92	200	< 0.1	< 0.0005	10		< 0.001	< 0.1	< 0.01	< 0.001	0.018			295	< 1	< 0.01		
S7	2010-05-03		279	< 0.02	< 0.15	3	< 0.02	< 0.0001	64	22		< 0.005		< 0.0005	577	< 0.002	3.99	638	19.5		< 0.1	< 0.0005				< 0.1	< 0.01	< 0.001	0.068	3.1	13	< 1	380	3	< 0.01		
S7	2011-10-28		142	< 0.02	< 0.15	< 2	0.038	< 0.0001	71	33	26		< 0.005		< 0.0005	489	0.003			3.4	220	0.14	< 0.0005	12	< 0.0005	< 0.001	< 0.1	< 0.01	0.002	0.13	8.3	13	58	338	7	< 0.01	
S7	2012-04-23		220	< 0.02	< 0.15	< 2	0.022	< 0.0001	79	45	19		< 0.005		< 0.0005	484	< 0.002			6.28	230	0.49	< 0.0005	13	< 0.0025	< 0.001	< 0.1	< 0.01	0.0015	0.089	3.2	13	10	214	5	< 0.01	
S7	2012-10-24		170	< 0.02	< 0.15	< 2	0.032	< 0.0001	88	36	31		< 0.005		0.001	566	0.004			8.4	270	1.2	< 0.0005	14	< 0.0005	< 0.001	< 0.1	< 0.01	0.0013	0.12	5.6	15	64	332	10	0.011	
S7	2013-04-25		180		< 0.15	< 2	< 0.02	< 0.0001	63	19	17		< 0.005		< 0.0005	426	< 0.002				200	0.1	< 0.0005	9.2	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.015	1.7	10	12	270	2	< 0.01	
S7	2013-09-23		150		< 0.15	< 2	< 0.025	< 0.0001	66	42	12		< 0.005		< 0.0005	406	0.004				190	0.84	< 0.0005	11	< 0.0005	0.002	0.11	< 0.01	< 0.001	0.13	4.5	9.3	36	272	7	0.012	
S7	2013-10-22		270		< 0.15	< 2	< 0.02	< 0.0001	96	24	20	< 0.005	< 0.005	< 0.0005	< 0.0005	600	< 0.002				260	0.14	< 0.0005	16	< 0.0005	< 0.001	< 0.1	< 0.01	0.0014	0.053	4.4	13	21	356	3	< 0.01	
S7	2014-05-05		180		0.52	< 2	< 0.02	< 0.0001	71	17	26	< 0.005	< 0.005	< 0.0005	< 0.0005	434	< 0.002				200	0.02	< 0.0005	9.5	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.022	3	16	2	246	2	< 0.01	
S7	2014-10-20		280	0.0012	0.58	< 2	< 0.02	< 0.0001	98	26	26	< 0.005	< 0.005	< 0.0005	< 0.0005	621	< 0.002			7.25	270	0.14	< 0.0005	15	< 0.0005	0.002	< 0.1	< 0.01	< 0.001	0.076	7	19	17	382	2	< 0.01	
S7	2015-04-21		160	< 0.0017	< 0.15	< 2	< 0.02	< 0.0001	58	24	18	< 0.005	< 0.005	< 0.0005	< 0.0005	370	< 0.002	10	370	10.82	170	0.16	< 0.0005	8.2	< 0.0005	< 0.001	< 0.1	< 0.01	0.0045	0.032	2	11	11	220	2	< 0.01	
S7	2015-09-14	< 0.001	140	0.0018	0.56		0.033	< 0.0001	58	36	22	< 0.005	< 0.005	< 0.0005	< 0.0005	430	0.003		500	15.4	180	0.14	< 0.0005	8	< 0.0005	< 0.001	0.37	< 0.01	< 0.001	0.18	8	13	42	292	< 1	< 0.01	
S7	2015-11-23	< 0.001	200	< 0.0005	< 0.15		< 0.02	< 0.0001	74	23	23	< 0.005	< 0.005	< 0.0005	< 0.0005	489	< 0.002		430	1.59	220	0.06	< 0.0005	9.6	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	3	12	13	284	< 1	< 0.01	
S7	2016-05-02	< 0.001	220	< 0.00069	< 0.15	< 2	< 0.02	< 0.0001	73	27	18	< 0.005	< 0.005	< 0.0005	< 0.0005	478	< 0.002	8.59	470	8.73	240	< 0.1	0.0023	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.018	1.8	11	< 1	270	1	< 0.01	
S7	2016-10-18	< 0.001	100	< 0.0005	< 0.15	3	0.027	< 0.0001	46	55	9.6	< 0.005	< 0.005	< 0.0025	0.0005	360	0.006	2.75	390	13.49	140	1	< 0.0005	7.5	< 0.0005	0.002	4.37	0.197	< 0.001	0.23	4.2	6.9	46	246	14	< 0.01	
S7	2017-05-01	< 0.001	170	0.0027	0.24	2	< 0.02	< 0.0001	57	31	19	< 0.005	< 0.005																								

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L		
S8R	2011-05-02		226	< 0.02	< 0.15	2	< 0.02	< 0.0001	85	24	3	< 0.005		< 0.0005	437	0.003			11.43	220	1.2	0.0006	12	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.065	2	4.7	6	252	32	< 0.01			
S8R	2012-04-23		230	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	77	32	5	< 0.005		< 0.0005	454	0.003			5.51	240	0.11	< 0.0005	14	< 0.0025	< 0.001	< 0.1	< 0.01	0.0021	0.055	2.1	8	14	196	4	< 0.01			
S8R	2013-04-25		200		< 0.15	< 2	0.031	< 0.0001	67	25	38	< 0.005		< 0.0005	561	< 0.002				220	0.12	< 0.0005	14	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	4.1	29	24	316	7	< 0.01			
S8R	2013-09-23		260		< 0.15	< 2	0.024	< 0.0001	100	13	18	< 0.005		< 0.0005	652	< 0.002				320	0.12	< 0.0005	20	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.022	2.9	18	53	378	8	< 0.01			
S8R	2014-05-05		190		0.7	< 2	0.026	< 0.0001	66	12	30	< 0.005	< 0.005	< 0.0005	< 0.0005	502	< 0.002				210	0.21	< 0.0005	13	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.03	4	25	21	276	14	< 0.01		
S8R	2014-10-20		250	< 0.0019	< 0.15	3	< 0.02	< 0.0001	95	11	11	< 0.005	< 0.005	< 0.0005	< 0.0005	581	< 0.002			7.27	270	0.05	< 0.0005	18	< 0.0005	< 0.001	< 0.1	< 0.01	0.016	0.016	3	11	49	342	7	< 0.01		
S8R	2015-04-21		190	0.11	3.26	< 2	0.03	< 0.0001	62	23	27	< 0.005	< 0.005	< 0.0005	< 0.0005	508	< 0.002	9.1	390	12.9	200	0.07	< 0.0005	12	< 0.0005	< 0.001	< 0.1	0.027	0.0037	0.046	5	21	29	260	6	< 0.01		
S8R	2015-11-23	0.0018	240	0.0037	0.51		< 0.02	< 0.0001	76	46	22	< 0.005	< 0.005	< 0.0005	< 0.0005	554	< 0.002		490	2.67	250	0.37	< 0.0005	16	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.049	4	20	20	290	75	< 0.01		
S8R	2015-12-21	< 0.001																																				
S8R	2016-05-02	< 0.001	230	< 0.00094	< 0.15	< 2	0.027	< 0.0001	71	15	14	< 0.005	< 0.005	< 0.0005	< 0.0005	492	< 0.002	9.5	470	8.58	240	0.19	< 0.0005	14	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.033	2.6	15	14	258	2	< 0.01		
S8R	2017-05-01	< 0.001	160	< 0.0043	< 0.15	2	0.029	< 0.0001	48	7.7	16	< 0.005	< 0.005	< 0.0005	< 0.0005	370	< 0.002			11.1	160	0.14	< 0.0005	12	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.4	15	20	182	< 10	< 0.01		
S8R	2017-07-25	< 0.001	130	< 0.005	< 0.15	< 2	0.035	< 0.0001	30	23	8.9	< 0.005	< 0.005	< 0.0005	< 0.0005	280	< 0.002			20	110	0.18	< 0.0005	9	< 0.00005	< 0.001	< 0.1	< 0.01	0.0016	< 0.03	1.4	15	5.6	136	< 10	< 0.01		
S8R	2018-05-16	< 0.001	230	0.007	0.45	< 2	0.025	< 0.0001	71	15	16	< 0.005	< 0.005	< 0.0005	< 0.0005	490	< 0.002	7.72	470	17.54	220	0.18	< 0.0005	14	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.9	16	9.3	180	< 10	< 0.01		
S8R	2019-05-06	< 0.001	210	0.0022	0.2	< 2	0.033	< 0.0001	69	19	16	< 0.005	< 0.005	0.00092	< 0.0005	460	< 0.002	4.82	460	15.3	210	< 0.1	< 0.0005	13	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.4	16	14	280	< 10	< 0.01		
S8R	2019-10-31	< 0.001	200	0.0087	0.74	< 2	< 0.02	< 0.0001	93	10	9.3	< 0.005	< 0.005	< 0.0005	< 0.0005	580	< 0.002	0.41	870	9.9	280	< 0.1	< 0.0005	13	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.5	9.7	78	330	< 10	< 0.01		
S8R	2020-01-17	< 0.001	140	< 0.00061	< 0.05	< 2	< 0.02	< 0.0001	41	14	12	< 0.005	< 0.005	0.0009	< 0.0005	330	< 0.002	5.27	320	0.73	140	0.15	< 0.0005	7.4	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.5	10	15	240	< 10	< 0.01		
S8R	2020-02-05	< 0.001	210	< 0.00061	0.066	< 2	0.026	< 0.0001	64	17	20	< 0.005	< 0.005	0.00066	< 0.0005	480	< 0.002	9.25	320	1.3	260	< 0.1	< 0.0005	12	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.1	18	22	295	< 10	< 0.01		
S8R	2020-02-13	< 0.001	220	0.014	17	< 2	0.023	< 0.0001	66	12	18	< 0.005	< 0.005	0.0006	< 0.0005	500	< 0.002	5.82	484	0.27	220	< 0.1	< 0.0005	12	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.9	16	20	250	< 10	< 0.01		
S8R	2020-02-20	< 0.001	230	< 0.00061	0.056	< 2	0.028	< 0.0001	73	11	17	< 0.005	< 0.005	0.00074	< 0.0005	520	< 0.002	8.42	328.5	0	220	< 0.1	< 0.0005	14	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.9	16	19	295	< 10	< 0.01		
S8R	2020-02-27	< 0.001	210	< 0.00061	< 0.05	< 2	0.032	< 0.0001	67	10	21	< 0.005	< 0.005	< 0.0005	< 0.0005	500	< 0.002	8.29	464	0.4	210	0.13	< 0.0005	13	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.2	20	21	230	< 10	0.015		
S8R	2020-04-15	< 0.001	220	0.053	4.2	< 2	0.032	< 0.0001	66	16	25	< 0.005	< 0.005	0.00062	< 0.0005	530	< 0.002	12.21	540	7.5	220	< 0.1	< 0.0005	14	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.9	23	22	235	< 10	< 0.01		
S8R	2021-05-04	< 0.001	200	0.0076	0.225	< 2	0.032	< 0.0001	58	15	24	< 0.005	< 0.005	< 0.0005	< 0.0005	480	< 0.002	8.52	412	10.8	200	< 0.1	< 0.0005	13	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2.9	22	21	260	< 10	< 0.01		
S18	2016-05-02	< 0.001	160	< 0.0011	< 0.15	< 2	< 0.02	< 0.0001	59	19	7.5	< 0.005	< 0.005	< 0.0005	< 0.0005	326	< 0.002	8.27	360	11.55	170	0.14	< 0.0005	4.4	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.02	2.3	5.1	4.1	184	1	< 0.01		
S18	2016-08-15	< 0.001	120	0.0023	1.1	< 2	0.064	< 0.0001	49	74	39	< 0.005	< 0.005	< 0.0005	0.0007	400	< 0.002	2.77	470	27.17	140	1.4	0.0007	5.7	< 0.00005	0.002	< 0.1	< 0.01	< 0.001	0.11	1.7	14	8.7	326	31	< 0.01		
S18	2016-10-18	< 0.001	110	0.0034	0.88	3	0.033	< 0.0001	57	57	31	< 0.005	< 0.005	< 0.0005	0.0014	410	0.004	7.66	400	15.45	160	2.8	0.001	5.6	< 0.00005	0.004	0.3	0.045	0.13	9.9	9.2	37	300	63	0.01			
S18	2017-05-01	< 0.001	150	< 0.0018	< 0.15	< 2	< 0.02	< 0.0001	58	20	2.3	< 0.005	< 0.005	< 0.0005	< 0.0005	300	< 0.002			10.1	150	0.18	< 0.0005	2.8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.031	1.9	2.1	< 1	186	< 10	< 0.01		
S18	2017-07-25	< 0.001	130	< 0.0015	< 0.15	< 2	< 0.02	< 0.0001	48	29	4.2	< 0.005	< 0.005	< 0.0005	< 0.0005	270	< 0.002			19.7	140	0.31	< 0.0005	3.4	< 0.00005	< 0.001	< 0.1	< 0.01	0.0022	0.031	3.3	2.8	7.6	158	< 10	< 0.01		
S18	2017-10-16	< 0.001	200	< 0.0053	< 0.15	4	0.023	< 0.0001	76	34	5.4	< 0.005	< 0.005	< 0.0005	< 0.0005	390	< 0.002	10.54	290	12.8	200	0.74	< 0.0005	5.6	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.09	4.7	4.3	22	280	24	< 0.01		
S18	2018-05-16	< 0.001	160	0.02	0.68	< 2	< 0.02	< 0.0001	59	19	3.6	< 0.005	< 0.005	< 0.0005	< 0.0005	310	< 0.002	4.37	310	20.62	170	0.18	< 0.0005	3.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.3	2.9	1	125	< 10	< 0.01		
S18	2018-08-09	< 0.001	130	< 0.004	< 0.15	3	0.024	< 0.0001	55	35	13	< 0.005	< 0.005	< 0.0005	0.0006	340	< 0.002	4.2	3300	26.6	140	1.8	< 0.0005	4.2	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.1	8	5.9	27	240	27	< 0.01		
S18	2018-10-16	< 0.001	180	< 0.00055	< 0.15	13	< 0.02	< 0.0001	68	33	6	< 0.005	< 0.005	< 0.0005	< 0.0005	400	< 0.002		370	7.5	180	0.26	< 0.0005	4.2	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.069	5.2	3.8	24	235	< 10	< 0.01		
S18	2019-05-06	< 0.001	170	0.0057	0.4	< 2	< 0.02	< 0.0001	72	21	9.4	< 0.005	< 0.005	0.0013	< 0.0005	370	< 0.002	3.07	360	15.75	180	< 0.1	< 0.0005	3.8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.036	2.2	6.2	< 1	250	< 10	< 0.01		
S18	2019-08-08	< 0.00																																				

Richmond Landfill - Historical Results (Surface Water)

H	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S20	2016-10-18	< 0.004	230	0.013	15.5	33	0.041	0.0002	69	320	69	< 0.005	0.012	< 0.0005	0.0042	770	0.012	8.21	770	13.01	180	9.3	0.0063	12	< 0.00005	0.011	< 0.1	0.441	0.0011	2.1	50	21	39	486	260	0.045	
S20	2016-10-25	< 0.001	160																																		
S20	2017-05-01	< 0.001	170	< 0.0027	< 0.15	< 2	< 0.02	< 0.0001	58	18	8.1	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			9.9	160	< 0.1	< 0.0005	6.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	0.76	6.1	1.5	200	< 10	< 0.01	
S20	2017-07-25	< 0.001	220	< 0.0025	< 0.15	< 2	0.038	< 0.0001	73	31	15	< 0.005	< 0.005	< 0.0005	< 0.0005	450	< 0.002			20.9	210	0.26	< 0.0005	7.5	< 0.00005	< 0.001	< 0.1	< 0.01	0.0022	< 0.03	1.9	11	< 1	252	< 10	< 0.01	
S20	2017-10-16	< 0.001	230	0.0023	0.21	< 2	0.046	< 0.0001	82	29	23	< 0.005	< 0.005	< 0.0005	< 0.0005	530	< 0.002	5.72	400	12.61	240	0.52	< 0.0005	9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	5.5	15	31	355	11	< 0.01	
S20	2018-05-16	< 0.001	240	< 0.0056	< 0.15	< 2	< 0.02	< 0.0001	91	39	9.7	< 0.005	< 0.005	< 0.0005	< 0.0005	450	< 0.002	3.07	290	24.92	230	0.36	< 0.0005	6.2	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.041	1.7	11	< 1	195	12	< 0.01	
S20	2018-08-09	< 0.001	150	< 0.0025	< 0.15	4	0.051	< 0.0001	51	45	18	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002	3.94	3900	23.5	150	1.2	< 0.0005	6.9	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.19	7.8	15	23	225	27	< 0.01	
S20	2018-10-16	< 0.001	250	< 0.00065	< 0.15	< 2	0.039	< 0.0001	90	26	19	< 0.005	< 0.005	< 0.0005	< 0.0005	560	< 0.002			550	7.5	250	0.26	< 0.0005	8.7	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.8	15	26	305	13	< 0.01
S20	2019-05-06	< 0.001	200	0.051	2.7	< 2	0.023	< 0.0001	83	15	9.5	< 0.005	< 0.005	0.0012	< 0.0005	420	< 0.002	3.32	420	15.81	210	0.47	< 0.0005	6.9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.034	2.2	8.2	< 1	265	14	< 0.01	
S20	2019-08-08	< 0.001	160	0.55	47	< 2	0.027	< 0.0001	47	45	22	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002	1.6	480	29	160	0.74	< 0.0005	8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.063	7	16	< 1	225	< 10	< 0.01	
S20	2019-10-31	< 0.001	160	< 0.00061	0.49	< 2	0.03	< 0.0001	69	25	14	< 0.005	< 0.005	0.0008	< 0.0005	420	< 0.002	5.01	330	10.6	190	< 0.1	< 0.0005	5.8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.5	9	32	240	< 10	< 0.01	
S20	2020-04-15	< 0.001	180	< 0.00061	< 0.05	< 2	< 0.02	< 0.0001	61	11	9	< 0.005	< 0.005	0.00065	< 0.0005	380	< 0.002	12.54	392	4.8	170	0.19	< 0.0005	5.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.5	7.3	6.3	270	< 10	< 0.01	
S20	2021-05-04	< 0.001	210	0.071	5.88	< 2	0.027	< 0.0001	78	14	12	< 0.005	< 0.005	< 0.0005	< 0.0005	440	< 0.002	6.4	468	9.4	210	< 0.1	< 0.0005	7.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.6	9.7	2	260	< 10	< 0.01	