

Richmond Landfill - Historical Results (Leachate)

Location	Date	Alkalinity 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 (Total) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Organic Carbon mg/L	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	N-nitrosodimethylamine mg/L	pH (Lab) unitless	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Kjeldahl Nitrogen mg/L	Zinc mg/L	
Inorganic and General Parameters																																		
LW-P1	2014-05-05	5500	973	140	16	<0.0005	82	3300	2700	0.13	0.076	17000	<0.01	1100	550	3.2	0.026	88	0.066	<0.25	0.27	<2	<0.2	0.000017	7.86	0.37	5.8	520	2100	<20	7610	1100	0.15	
LW-P1	2015-04-20																			0.013														
LW-P1	2015-04-21	6500	1400	230	13	0.00056	59	3600	2500	0.13	0.068	19600	<0.005	1100	460	4.4	0.024	76	0.05		0.22	<2	0.24	0.00012	7.91	0.94	5.2	450	1900	<100	7370	1600	0.026	
LW-P1	2015-11-24	7200	1490		15		64		2400			19700		1100		4.3		80	0.041			<2	<0.2					510	2100	<20	8040			
LW-P1	2016-05-02	7800	1600	110	14	<0.001	55	3600	2300	0.14	0.072	20000	<0.02	1000	450	4.1	0.012	74	0.04	<0.05	0.23	<2	<0.2	0.000011	7.95	0.22	6	500	2000	<20	7910	1600	<0.1	
LW-P1	2017-05-01	6400	1260	110	11	<0.0005	60	2500	2200	0.1	0.061	17000	<0.01	780	400	3.7	0.007	64	0.04	0.011	0.2	<2	<0.2	<0.000008	7.81	<0.4	6.1	410	1700	<100	6580	1300	<0.05	
LW-P1	2018-05-24	5100	924	110	11	<0.001	88	2400	2300	0.099	0.069	16000	<0.02	890	510	4.2	0.009	71	0.086	0.0094	0.23	<5	<0.5	<0.000016	7.73	0.108	7.6	450	1700	<20	5900	1000	<0.1	
LW-P1	2019-05-03	6000	1170	150	15	<0.001	98	2800	2800	0.13	0.098	19000	<0.02	1100	600	4.6	0.006	86	0.12	0.01	0.31	<2	<0.2	<0.000008	7.74	<0.2	8.7	580	2200	<20	8500	1100	<0.1	
LW-P2	2014-05-05	7100	1380	630	20	<0.0005	58	4500	3100	0.21	0.085	21900	<0.01	1000	720	2.9	0.014	140	0.068	0.1	0.37	<2	<0.2	<0.00008	7.78	0.35	6.9	900	2700	<20	9180	1400	0.12	
LW-P2	2015-04-20																			0.077														
LW-P2	2015-04-21	6400	1170	270	17	<0.0005	48	3200	2900	0.14	0.071	21000	<0.005	890	630	5.6	0.0052	120	0.061		0.32	<2	0.39	0.00011	7.81	0.59	5.2	690	2300	<100	9140	1200	0.054	
LW-P2	2015-11-24	6600	1190		21		52		2700			20200		890		14		120	0.065			<2	<0.2					810	2500	<20	9150			
LW-P2	2016-05-02	6700	1200	390	21	<0.001	49	4200	2900	0.15	0.067	20000	<0.02	820	650	3.3	<0.005	120	0.062	0.13	0.32	<1	<0.1	0.000013	7.73	0.23	5.4	800	2500	<20	9730	1200	<0.1	
LW-P2	2017-05-01	7000	1160	610	20	<0.0005	48	4900	3200	0.15	0.066	21000	<0.01	870	630	3.5	0.004	120	0.048	0.24	0.32	<2	<0.2	<0.00008	7.73	<0.4	5.1	700	2400	<100	9810	1200	<0.05	
LW-P2	2018-05-24	6600	1050	510	18	<0.001	48	2500	2800	0.11	0.07	19000	<0.02	740	560	2.9	<0.005	110	0.045	0.27	0.31	<5	<0.5	<0.000016	7.8	0.159	4.7	700	2400	<20	7050	1100	<0.1	
LW-P2	2019-05-03	6300	1050	260	20	<0.001	51	2600	2600	0.1	0.077	19000	<0.02	760	540	6.3	<0.005	100	0.042	0.066	0.35	<2	<0.2	<0.000008	7.75	<0.2	4.8	710	2400	<20	8730	1000	<0.1	
North Chamber	2000-02-04	5180	590	2220		ND	492	6510	1620	ND		9300		1800	2400	159		283				ND	ND		7.24	1.3		380	1140	38		590		
North Chamber	2000-03-01	4630	590	2750		ND	426	5300	1200	0.04		9310		1480	2280	40.6		295				ND	ND		7.24	1.15		395	1060	36		590		
North Chamber	2000-04-07	4002	375	2200		ND	392	3720	809	0.03		7410		1120	1980	41		244				ND	ND		7.13	0.751		314	866	21		652		
North Chamber	2000-05-05	3700	330	3130		0.007	498	3780	1000	0.03		7620		1380	2350	46		268				ND	ND		7.33	1.01		316	965	246		367		
North Chamber	2000-06-01	3450	310	2440		ND	456	3370	1090	0.03		8260		1360	2090	23.3		231				0.22	0.1		7.99	0.94		300	890	8		351		
North Chamber	2000-07-04	4240	416	2030		ND	762	2960	1340	0.03		6330		1280	3510	37.2		389				ND	ND		7.2	1.32		610	1470	18		416		
North Chamber	2000-07-31	3210	393	2600		ND	540	3850	1050	0.02		6310		1400	2630	11.3		311				0.23	ND		7.47	1.34		380	1060	14				
North Chamber	2000-08-29	4220	439	3120		ND	459	4000	1120	0.03		10700		1420	2310	25.9		282	1.5			ND	ND		7.36	1.07		370	981	38		597		
North Chamber	2000-10-04	4930	650		6.64	ND	403	7600	1470	0.05		13400				59.2	0.003	276	1.5			ND	ND					642	1070	147		754		
North Chamber	2000-10-30	4180	465	3020		ND	349	4750	1240	0.04		11200		1590	1890	31.4		248				0.18	ND		7.27	0.966		486	1160	ND		465		
North Chamber	2000-12-07	2390	202	1410		ND	506	1630	730	0.02		6460		584	2210	23.4		230				ND	ND		7	0.595		373	784	153		258		
North Chamber	2001-01-03	2950	220	963		ND	367	1530	840	0.02		6680		660	1730	24.2		197				ND	ND		6.86	0.553		252	663	5		276		
North Chamber	2001-02-02	3560	162	1470		ND	537	2750	1080	0.04		8150		1140	2140	97.2		194				ND	ND		6.88	0.733		303	687	13		329		
North Chamber	2001-03-07	3130	244	960		ND	342	1600	563	0.03		6440		520	1600	49.2		181				ND	ND		6.83	0.543		250	550	6		270		
North Chamber	2001-04-05	2580	186	1000		ND	338	1450	488	0.03		5000		465	1490	31.1		157				ND	ND		6.76	0.44		170	397	6		210		
North Chamber	2001-05-03		ND		3.62	ND				0.03							ND																	
North Chamber	2001-06-06	3550	340	2050		ND	466	4000	802	0.02		8620	ND	1220	2180	8.72	ND	246				0.1	ND	ND		7.16	0.769		330	799	16		411	
North Chamber	2001-07-04	4320	392	1890	5.61	ND	369	2410	1400	0.05	0.05	9980	0.002	907	2000	38.8	ND	261	1.48			0.11	ND	ND		7.59	1.34	1.76	420	986	3		444	0.53
North Chamber	2001-08-08	4910	489	2000		ND	215	3530	1130	0.05		11300	0.003	1040	1750	37.5	ND	294				0.14	ND	ND		7.11	0.442		582	1168	38		547	
North Chamber	2001-09-06	3900	359		4.85	ND	650	3660	1070	0.03	0.02	9450	ND	1290	3020	43.7	ND	339	2.77			0.12	ND	ND		6.76	0.803	1.28	414	1150	75		435	0.42
North Chamber	2001-10-03	4270	367	6195	4.51	ND	806	9195	896	0.03	0.12	9630		3180	2950	50.1		226	3.5			ND	ND		6.85	1.55	4.29	282	717	388		418	0.54	
North Chamber	2001-11-01	5160	459	7110	8.31	ND	827	12760	1120	0.03	0.02	11700	0.001	4110	3230	52.3	0.001	282	4.22			0.07	ND	ND		7.04	2.22	1.54	415	927	8		512	0.1
North Chamber	2001-12-07	3420	354	2540	3.67	ND	348	3940	865	0.02	ND	8050	0.005	1210	1730	41.3	0.005	210	0.87			0.05	ND	ND		7.07	0.91	0.26	318	772	11		392	0.29
North Chamber	2002-01-09	3150	260		4.22	ND	376	2570	734	0.038	ND	7120	0.003	</																				

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Inorganic and General Parameters																																		
North Chamber	2003-02-12				2.86	ND	288			0.007	ND		ND			18.7	ND	161	0.598		0.04							211	586					0.177
North Chamber	2003-03-03	3550	318	663	3.93	ND	291	1530	1060	0.025	0.015	9020	0.006	525	1550	41.5	ND	201	0.572		0.06	ND	ND		6.98	0.288	0.58	317	922	24		380		
North Chamber	2003-04-01	1800	103	609		< 0.001	352	1170	591	0.012		4890		411	1360	27.3		116		0.0011		< 0.1	< 0.1		6.58	0.388	0	91	415	55		148		
North Chamber	2003-05-08	1170	84	172	1.92	< 0.001	228	575	899	0.009	0.008	4620	0.013	190	1050	5.94	0.007	88	0.607	0.0014	0.045	< 0.1	< 0.1		7.03	0.074	0.45	142	445	355		111	0.416	
North Chamber	2003-06-03	3260	248	543	3.25	ND	323	1280	748	0.024	0.016	7240	ND	364	1600	46.1	ND	193	0.913		0.04	ND	ND			0.365	0.5	290	698	5		304	0.343	
North Chamber	2003-07-04	4310	362	1060	5	< 0.01	320	2320	1100	< 0.05	< 0.05	9990	< 0.05	707	1670	39.7	< 0.01	211	0.88	< 0.0004	0.08	< 0.1	< 0.1		7.16	0.382	0.84	413	1060	16		559	0.31	
North Chamber	2003-08-05	4930	124			< 0.01	220			< 0.05	< 0.05		< 0.05	611	1580		0.01	< 249		0.0028	0.13	< 0.5	< 0.1		7.14	0.341						430	0.54	
North Chamber	2003-09-02	4730	504			< 0.001	205			0.043	< 0.005		0.016	583	1400		< 0.01	216		0.0042	0.176	< 0.1	< 0.1		7.14	0.291						554	0.696	
North Chamber	2003-10-03	4230	417			< 0.001	237			0.044	< 0.005		0.028	516	1450		< 0.01	208		0.005	0.123	< 1	< 0.1		7.22	0.265						503	0.37	
North Chamber	2003-11-03	567	29			< 0.001	136			0.015	0.006		0.025	53.8	574		0.007	57		< 0.0004	0.04	3.66	0.26		7.96	0.004						46.3	0.033	
North Chamber	2003-12-05	1520	95			< 0.001	218			0.091	0.006		0.004	164	878		0.003	81		0.0031	0.046	< 0.5	< 0.1		6.66	0.129						143	0.21	
North Chamber	2004-01-07	456	16.6			< 0.001	107			0.023	< 0.005		0.01	37.4	407		0.003	34		0.0004	0.017	< 0.1	< 0.1		7.4	0.005						22.9	0.02	
North Chamber	2004-02-11	3050	269			< 0.001	303			0.032	< 0.005		0.015	267	1380		< 0.01	152		0.0054	0.067	< 1	< 0.1		6.94	0.142						300	0.35	
North Chamber	2004-03-04	630	28			< 0.001	85			0.028	0.006		0.027	52.6	360		0.011	36		< 0.0004	0.028	< 0.5	< 0.1		7.69	0.02						35.6	0.04	
North Chamber	2004-04-20	2580	230			< 0.001	271			0.03	< 0.005		0.038	198	1200		< 0.01	135		0.0008	0.064	< 0.5	< 0.1		6.8	0.107						244	0.36	
North Chamber	2004-05-06	2300	172	168	2.5	< 0.001	272			< 0.01	0.008	5160	< 0.01	194	1130	26.1	0.005	110	1.5	0.002	0.05	< 0.1	< 0.1		6.89		0.86		430	2		621	0.2	
North Chamber	2004-06-02	2630	180			0.001	252			0.049	0.105		0.022	172	1130		< 0.01	122		0.0021	0.064	< 0.5	< 0.5		7	0.079						201	0.28	
North Chamber	2004-07-06	4650	504	690	7.3	< 0.001	227			0.18	0.027	11500	< 0.01	555	1420	29.2	< 0.01	207	0.5	0.0038	0.13	< 0.1	< 0.1		7.15		1.18		1070	12			0.2	
North Chamber	2004-08-10	3170	294			< 0.001	21			0.037	0.087		0.029	230	106		0.02	13		0.0033	0.083	0.57	< 0.1		7							330	0.26	
North Chamber	2004-10-06	3840	391			< 0.001	176			0.044	0.011		0.041	182	1030		< 0.01	144		0.0054	0.101	< 0.5	< 0.1		7.03							396	0.21	
North Chamber	2004-11-16			450	5.58		25					9650				27.4		20	0.56								1.9		101	9				
North Chamber	2004-12-01	2250	201			0.003	220			0.028	0.015		0.036	151	994		0.01	108		0.0015	0.069	< 0.5	< 0.1		6.78							245	0.19	
North Chamber	2005-01-07	2080	132			< 0.001	289			0.018	0.005		0.01	120	1240		< 0.01	127		0.0021	0.039	< 0.5	< 0.1		6.79							172	0.18	
North Chamber	2005-01-25	2400	195			< 0.001	300			< 0.005	0.006		0.014	127	1320		< 0.01	139		0.0035	< 0.005	< 0.5	< 0.1		6.92							213	0.27	
North Chamber	2005-03-01	4180	431			0.001	257			0.04	0.018		0.014	432	1450		< 0.01	197		0.004	0.061	< 0.5	< 0.1		7.03	0.149						482	0.3	
North Chamber	2005-03-30	3900	374			0.001	259			0.081	0.035		0.044	285	1450		< 0.01	196		0.0034	0.062	< 0.5	< 0.1		6.98	0.065						375	0.79	
North Chamber	2005-05-05	431	8.39	8	0.99	< 0.0001	39			0.002	0.0022	1970	0.003	25.5	< 1	0.96	< 0.001	43	0.06	< 0.0002	0.033	2.26	0.18		7.81	< 0.001	0.07		260	25		12.4	0.01	
North Chamber	2005-06-03	420	2.6			< 0.0001	36			0.004	0.0019		0.003	26.2	288		< 0.001	48		< 0.0004	0.033	6.99	0.29		8.08	< 0.001						7.12	0.02	
North Chamber	2005-07-07	668	32			< 0.0001	37			< 0.005	0.0031		0.003	53.8	315		< 0.001	54		0.0004	0.041	< 0.1	< 0.1		7.74	0.009						38	0.04	
North Chamber	2005-08-09	2250	212			< 0.001	99			0.02	0.01		< 0.01	155	589		< 0.01	83		0.0067	0.07	< 0.5	< 0.1		6.74	0.028						235	< 0.1	
North Chamber	2005-09-23	446	5.51			< 0.0001	21			0.007	0.0012		0.002	34.8	246		< 0.001	47		< 0.0004	0.031	< 0.1	< 0.1		8.7	< 0.001						11.5	< 0.01	
North Chamber	2005-10-06	1300	92.8			< 0.001	131			0.009	0.005		< 0.01	75.8	574		< 0.01	60		< 0.002	< 0.05	< 0.1	< 0.1		6.77	0.016						108	< 0.1	
North Chamber	2005-12-01	2010	171			< 0.001	196			< 0.005	0.009		< 0.005	99.9	848		< 0.01	87		0.0003	0.048	< 0.5	< 0.1		6.69	0.019						181	0.1	
North Chamber	2006-01-12	1830	131			< 0.001	211	397	0.012	0.006	4270	< 0.01	143	881		< 0.01	86		< 0.0002	< 0.05	< 0.1	< 0.1		6.77	0.062						2780	147	0.1	
North Chamber	2006-02-02	2340	181			< 0.001	188	532	0.014	0.009	5260	< 0.01	126	787		< 0.01	77		0.0042	0.06	0.27	< 0.1		6.71	0.038						3420	217	< 0.1	
North Chamber	2006-03-01	1730	129			< 0.001	172	356	0.014	0.006	3760	< 0.01	101	701		< 0.01	66		0.0037	0.1	< 0.1	< 0.1		6.56	0.029						2440	138	< 0.1	
North Chamber	2006-04-05	2160	159			< 0.001	178	508	0.012	0.007	5110	< 0.01	121	762		< 0.01	77		0.0013	0.11	< 0.1	< 0.1		6.76	0.033						3320	201	0.1	
North Chamber	2006-05-29	2770	245	89	3.3	< 0.001	244	623	0.018	0.011	5040	< 0.01	162	1120	15.8	< 0.01	125	1	0.094	0.07	< 0.1	< 0.1		6.96	0.028	1.09		510	4	3060	249	0.1		
North Chamber	2006-06-22	793	54			< 0.001	52	411	< 0.01	0.003	2740	< 0.01	61.7	328		0.01	48		0.0002	< 0.05	< 0.1	< 0.1		7.2	0.004						1780	61	< 0.1	
North Chamber	2006-07-11	411	6			< 0.0001	2																											

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Inorganic and General Parameters																																					
North Chamber	2007-11-12	3160	428			< 0.001	141		997	0.09	0.023	8650	< 0.01	242	797		< 0.01	108		0.0015	0.11	< 0.1	< 0.1			7.23	0.017					5620	454	< 0.1			
North Chamber	2007-12-05	2780	330			< 0.001	203		744	0.07	0.016	7400	< 0.01	236	1010		< 0.01	122		0.0018	0.09	< 0.1	< 0.1			7.43	0.033					4810	350	< 0.1			
North Chamber	2008-01-08	1900	171			< 0.001	201		473	0.04	0.01	4840	< 0.01	125	823		< 0.01	78		0.0016	0.06	< 0.1	< 0.1			7.09	0.024					3150	199	< 0.1			
North Chamber	2008-02-14	2570	303			< 0.0005			700	0.05	0.015		< 0.01	159	920		0.003			0.0075	0.074	< 0.1	0.01			7.5	0.058					4400	300	0.13			
North Chamber	2008-03-17	2320	247			0.0001			600	0.041	0.012		0.006	156	970		0.0025			0.0065	0.06	< 0.1	0.01			7.2	0.03					3900	260	0.07			
North Chamber	2008-04-03	1750	162			< 0.0001			400	0.024	0.007		0.006	124	870		0.002			0.0053	0.044	< 0.1	< 0.01			7.3	0.019					2900	170	0.053			
North Chamber	2008-05-12	2570	314			< 0.0001			620	0.043	0.014		0.01	143	840		0.0039			0.0055	0.065	< 0.1	0.02			7.4	0.018					3910	270	0.052			
North Chamber	2008-05-15			140	3.7		250					7450			22			140	1.5								1.9		710	< 20							
North Chamber	2008-06-09	2210	255			0.0001			700	0.045	0.013		0.005	147	720		0.0037			0.0073	0.074	< 0.1	0.01			7.6	0.024					4120	370	0.14			
North Chamber	2008-07-02	4610	624			0.0002			1300	0.086	0.026		0.005	321	1000		0.0054			0.0081	0.14	< 1	< 0.1			7.3	0.078					7800	650	0.094			
North Chamber	2008-08-20	417	24.7			< 0.0001			290	< 0.005	0.0014		< 0.002	36.6	210		0.0005			0.00011	0.018	< 0.1	< 0.01			8.1	0.001					1020	26	0.01			
North Chamber	2008-10-14	2350	310			0.0001			760	0.049	0.014		0.002	140	680		0.0025			0.0092	0.072	< 0.1	0.02			7.4	0.018					3530	270	0.054			
North Chamber	2008-11-17	4620	677	87	5	< 0.001	150		1200	0.11	0.027	11500	< 0.02	283	850	7.9	< 0.005	140	0.45	0.009	0.13	< 0.1	0.03			7.5	0.057	0.22		1100	< 20	7400	620	< 0.1			
North Chamber	2008-12-09	1020	99			< 0.0001			260	0.018	0.005		< 0.002	83.7	380		0.001			0.0061	0.024	< 0.1	< 0.01			7.1	0.0076					1880	110	0.023			
North Chamber	2009-01-12	5300	756			< 0.001			1500	0.12	0.035		< 0.02	348	1200		< 0.005			0.0063	0.16	< 0.1	0.03			7.3	0.042					8500	750	0.1			
North Chamber	2009-02-10	5800	950			< 0.0005			1800	0.14	0.041		< 0.01	493	1100		0.005			0.0053	0.19	< 0.1	0.03			7.3	0.09					10300	1000	0.097			
North Chamber	2009-03-09	5700	856			0.0002			1800	0.13	0.041		0.006	449	1000		0.012			0.0059	0.2	< 1	< 0.1			7.4	0.051					9600	810	0.089			
North Chamber	2009-04-16	3080	432			0.0001			930	0.05	0.016		0.008	207	1100		0.0035			0.0065	0.084	< 0.1	0.02			7.4	0.04					5200	380	0.12			
North Chamber	2009-06-02	2150	250	38	2.6	< 0.0001	150		640	0.034	0.012	5850	0.003	146	650	14	0.0022	100	0.65	0.0047	0.061	< 0.1	0.02			7.3	0.019	1.6		580	< 20	3700	270	0.044			
North Chamber	2009-07-15	5500	887			0.0002			1600	0.11	0.038		0.004	412	990		0.0043			0.0052	0.17	< 1	< 0.1			7.4	0.05					9030	910	0.057			
North Chamber	2009-08-24	6080	969			0.0008			1800	0.13	0.043		< 0.01	548	560		0.004			0.0038	0.18	< 1	< 0.1			7.5	0.05					9800	1000	0.16			
North Chamber	2009-09-15	5700	954			< 0.0005			1700	0.11	0.039		< 0.01	460	1100		0.004			0.0034	0.17	< 0.1	< 0.01			7.4	0.04					9450	900	0.064			
North Chamber	2009-10-14	4310	628			0.0001			890	0.086	0.029		0.004	318	960		0.0032			0.0022	0.13	< 1	< 0.1			7.4	0.082					7010	680	0.066			
North Chamber	2009-11-24	3260	444	33	4.1	0.0001	170		830	0.051	0.019	8500	0.002	198	880	5.6	0.0022	140	0.47	0.005	0.083	< 0.1	0.07			7.4	0.015	2.6		780	< 20	5370	520	0.042			
North Chamber	2009-12-10	2740	372			0.0002			580	0.052	0.017		0.008	184	870		0.0032			0.0079	0.072	0.2	0.04			7.5	0.032					4600	370	0.048			
North Chamber	2010-01-14	4640	689			0.0002	170		1400	0.091	0.032		0.004	399	1000		0.0035	170		0.0039	0.14	< 1	< 0.1			7.6	0.044		390	1300	18	8010	770	0.052			
North Chamber	2010-02-09	6560	1040			< 0.001	130		2100	0.24	0.06		< 0.02	642	890		0.01	160		0.012	0.27	< 1	< 0.1			7.4	0.24		590	1800	17	7520	1400	< 0.1			
North Chamber	2010-03-03	6750	1080			< 0.0005	130		2240	0.23	0.057		< 0.01	721	930		0.008	170		0.014	0.28	< 1	< 0.1			7.6	0.31		590	2000	10	7760	1400	0.088			
North Chamber	2010-04-13	4810	774			0.0003	170		1660	0.14	0.038		0.005	431	940		0.0047	140		0.0058	0.18	< 1	< 0.1			7.4	0.198		390	1300	< 4	8400	870	0.052			
North Chamber	2010-05-04	5470	861	210	7.8	0.0002	160		1700	0.14	0.043	14900	0.004	481	1000	12	0.0056	160	0.55	0.0059	0.19	< 1	0.1			7.6	0.153	6.6	460	1600	5	9200	960	0.064			
North Chamber	2010-06-02	6140	1060			0.0001	150		2000	0.16	0.048		0.01	615	990		0.0061	170		0.0071	0.22	< 0.1	< 0.01			7.7	0.17		510	1700	6	9810	1200	0.086			
North Chamber	2010-07-14	5330	813			< 0.0005				0.13	0.04		< 0.01	475	970		0.005			0.0054	0.18	< 1	< 0.1			7.4	0.12					940	0.066				
North Chamber	2010-08-11	6310	911			< 0.001				0.18	0.053		< 0.02	589	940		0.006			0.0046	0.23	< 2	< 0.2			7.6	0.13					1100	< 0.1				
North Chamber	2010-09-29	6290	1100			< 0.001				0.18	0.053		< 0.02	669	870		0.005			0.0035	0.24	< 1	< 0.1			7.6	0.212					1200	< 0.1				
North Chamber	2010-10-25	5920	1200	200	18		2000	1700	0.35			16200		588		12			0.71	0.013						7.72	0.225	9.1	1100	3400		9590	1100				
North Chamber	2010-10-26	5810	996			0.002				0.36	0.11		< 0.02	532	900		0.015			0.008	0.5	< 2	< 0.2			7.92	0.23					980	0.14				
North Chamber	2010-11-15	5700	951			< 0.005				1.7	0.44		< 0.1	542	890		0.063			0.00049	2.1	< 1	< 0.1			7.64	0.114					1000	0.65				
North Chamber	2010-12-06	2590	366			0.0001				0.059	0.018		0.006	169	660		0.0034			0.0098	0.085	< 0.1	0.03			7.23	0.31					360	0.053				
North Chamber	2010-12-16	3240	464	88	4.4	0.0001	180			0.077	0.023	8670	0.005	220	870		0.0037	120	0.78	0.0052	0.12	< 1	< 0.1			7.36	0.26	3.1		810	26	540	0.047				
North Chamber																																					

Richmond Landfill - Historical Results (Leachate)

Location	Date	Alkalinity 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 (Total) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Organic Carbon mg/L	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	N-nitrosodimethylamine mg/L	pH (Lab) unitless	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Kjeldahl Nitrogen mg/L	Zinc mg/L	
Inorganic and General Parameters																																		
North Chamber	2012-02-21	4590	761			0.0003				0.12	0.037		0.005	403	1000		0.0038			0.01	0.16	< 0.5	< 0.05		7.38	0.07						910	0.057	
North Chamber	2012-03-18	3500	490			0.0002				0.075	0.022		0.012	250	940		0.0035			0.0071	0.11	< 0.1	0.011		7.6	0.76						480		
North Chamber	2012-03-19	3600	491			0.0001				0.073	0.021		0.01	250	920		0.0035			0.0073	0.11	< 0.1	0.013		7.55	0.79						480	0.054	
North Chamber	2012-04-22	6700	1130			< 0.001				0.29	0.055		< 0.02	770	920		0.009			< 0.01	0.23	< 1	< 0.1		7.68	1.2					1200	0.1		
North Chamber	2012-04-23	6700	1150	200	9.8	< 0.001	130	2900	2100	0.28		18400	0.014	871	930	14	0.0089	150	0.4	< 0.025		< 2	< 0.2		7.57	0.54	7.4	540	2000	110	7650	1300	0.089	
North Chamber	2012-05-07	3100	422			< 0.0001				0.067	0.019		0.009	240	820		0.0029			< 0.005	0.1	< 1	< 0.1		7.32	0.8					470	0.039		
North Chamber	2012-06-12	5800	920			< 0.0005				0.18	0.048		0.016	580	1000		0.01			0.0026	0.2	< 5	< 0.5		7.69	1.6					930			
North Chamber	2012-06-13	6000	972			0.0004				0.18	0.048		0.015	590	1000		0.009			0.0025	0.19	< 5	< 0.5		7.74	1.7					1100	0.27		
North Chamber	2012-07-05	6200	1200			0.006				0.33	0.31		1.3	550	1000		0.19			0.0025	0.46	< 0.1	0.064		7.62	0.058					960	12		
North Chamber	2012-08-16	6500	1190			< 0.001				0.21	0.059		0.033	620	980		0.006			0.003	0.26	< 2	< 0.2		7.69	0.14					1200	< 0.1		
North Chamber	2012-09-24	2400	370			< 0.0005				0.054	0.02		0.027	210	810		0.0035			0.0013	0.084	< 1	< 0.1		7.31	0.043					400			
North Chamber	2012-09-25	2600	370			< 0.0005				0.05	0.019		0.025	210	830		0.004			0.003	0.079	< 1	< 0.1		7.27	0.042					400	< 0.05		
North Chamber	2012-09-26	2400	370	99	4	< 0.0005	220			0.056	0.02	7200	0.025	210	820	25	0.0037	92	0.45	0.0015	0.084	< 1	< 0.1		7.4	0.033	2.6	230	770	240	390	0.054		
North Chamber	2012-10-22	4000	565	120	5.2	< 0.001	140	1100	1200	0.09		10400	< 0.01	329	780	5.2	< 0.005	110	0.27	< 0.025		< 1	< 0.1		7.48	0.04	3.8	290	1000	97	4530	680	0.069	
North Chamber	2012-10-23	4600	568			< 0.0001				0.094	0.033		0.014	35	800		0.0044			0.00081	0.14	< 1	< 0.1		7.48	0.032					750	0.065		
North Chamber	2012-11-21	4300	662			< 0.0005				0.11	0.036		0.015	390	890		0.004			0.0032	0.16	< 2	< 0.2		7.53	0.032					640	0.06		
North Chamber	2012-12-10	3200	460			< 0.0001				0.087	0.029		0.014	260	82		0.0056			0.0028	0.13	< 1	< 0.1		7.24	0.037					440			
North Chamber	2012-12-11	3200	471			< 0.0001				0.073	0.025		0.009	250	83		0.0033			0.0034	0.11	< 1	< 0.1		7.23	0.032					460	0.049		
North Chamber	2013-01-08	2900	320			< 0.0001				0.049	0.018		0.004	180	940		0.0018			0.0064	0.078	< 1	< 0.1		7.16	0.043					380	0.032		
North Chamber	2013-02-12	3200	650			0.0001				0.11	0.034		0.005	320	1000		0.0037			0.0084	0.15	< 0.1	< 0.01		7.47	0.041					690	0.046		
North Chamber	2013-03-12	4700	960			< 0.0005				0.14	0.041		0.016	420	920		0.0054			0.0056	0.2	< 2	< 0.2		7.31	1.1					830	0.065		
North Chamber	2013-03-13	4100	890			< 0.0005				0.13	0.039		0.014	410	940		0.005			0.0078	0.19	< 2	< 0.2		7.29	1.1					810	0.058		
North Chamber	2013-04-25	5200	409			< 0.0001				0.054	0.018		0.011	170	840		0.0025			0.0067	0.078	< 1	< 0.1		7.25	0.43					350	0.031		
North Chamber	2013-04-26	2700	405	66	3.3	< 0.0001	200	510	800	0.053	0.018	6970	0.011	184	850	17	0.0024	100	1	0.0072	0.075	< 1	< 0.1		7.2	0.043	2.6	190	660	< 10	2960	350	0.032	
North Chamber	2013-05-02			43		< 0.005		680		0.05	< 0.02		< 0.02				< 0.05		0.95		0.08			7.41	0.033	2.9				380	0.03			
North Chamber	2013-05-28	5000	838			< 0.001				0.15	0.047		< 0.02	44	930		< 0.005			0.0078	0.2	< 2	< 0.2		7.48	0.89					860	< 0.1		
North Chamber	2013-05-31			140	8.2		150					15000			7.3			140	0.5								8.2		1600	< 20				
North Chamber	2013-06-13	3300	480	96	4.8	< 0.0005	150			0.07	0.022	8600	0.015	240	750	7.8	0.0036	120	0.67	0.0035	0.098	< 1	< 0.1		7.72	0.26	3.5	250	1000	< 1	460	0.029		
North Chamber	2013-06-25	5300	697			< 0.001				0.27	0.04		< 0.02	390	900		0.007			0.069	0.17	< 1	< 0.1		7.39	0.063					720	< 0.1		
North Chamber	2013-07-18	5300	891			< 0.001				0.15	0.049		< 0.02	450	920		< 0.005			0.016	0.2	< 2	< 0.2		7.44	0.087					800	< 0.1		
North Chamber	2013-09-05	5200	1100			< 0.0005				0.22	0.064		0.016	640	910		0.0051			0.019	0.26	< 2	< 0.2		7.97	0.08					1100	0.079		
North Chamber	2013-10-24	5300	910			< 0.0005				0.17	0.058		0.016	560	870		0.004			0.0084	0.24	< 2	< 0.2		7.79	1.3					1100	0.058		
North Chamber	2013-12-19	4000	630			< 0.001				0.081	0.033		< 0.01	340	750		< 0.005			0.006	0.13	< 1	< 0.1		7.31	1.4					660	< 0.05		
North Chamber	2014-05-05	1900	212	10	2.1	< 0.0001	220	340	470	0.019	0.0092	4830	0.0048	110	870	17	0.0017	100	1.1	0.011	0.043	< 0.5	< 0.05	0.000016	7.05	0.11	0.83	140	460	1	2120	220	0.021	
North Chamber	2015-03-31	3300	510			< 0.0001				0.069	0.027		0.0077	230	820		0.0016			0.0086	0.11	< 1	< 0.1		7.29	< 0.1					530	0.025		
North Chamber	2015-04-20																			0.0091														
North Chamber	2015-04-21	2200	276	53	2.5	< 0.0001	180	450	580	0.029	0.013	6060	0.0055	150	880	12	0.0015	110	0.96					0.000015	7.12	0.51	1.5	160	580	< 20	2600	310	0.015	
North Chamber	2015-11-24	2900	371		4.1		150		880			8020		230		8.2			110	0.5									220	800	46	3320		
North Chamber	2016-03-30	2400	300			0.00034				0.12	0.016		0.085	140	800		0.0062			0.0085	0.06	< 0.5	< 0.05		7.2	0.029					330	0.12		
North Chamber	2016-05-02	2400	310	41	3.1	< 0.0001	200	510	670	0.033	0.013	6600	0.004	150	830	15	0.0011	98	0.84	0.013	0.055	< 0.5	< 0.05	< 0.000008	7.23	0.47	1.5	160	580	< 1	2900	330	0.022	
North Chamber	2016-05-10			75	2.9		210					6500				18			110	0.79								1.6		600	< 20			
North Chamber	2016-08-10	5200	845			< 0.001				0.099	0.039		0.035	500	990		< 0.005			0.004	0.18	< 1	0.22		7.38	0.071					970	< 0.1		
North Chamber	2016-10-24	2800	388			< 0.0001				0.04	0.018		0.024	210	810		0.0022			0.0038	0.07	< 0.5	< 0.05		7.28	< 0.04					520	0.043		
North Chamber	2016-12-19	3400	424			< 0.0001				0.048	0.019		< 0.01	220	730		0.0015			0.01	0.082	< 1	< 0.1		7.3	< 0.4					550	0.023		
North Chamber	2017-03-16	2300	294			< 0.0001				0.024	0.011		0.005	130	800		0.0013			0.0085	0.045	< 0.5	< 0.05		7.22	< 0.04					290	0.016		
North Chamber	2017-05-01	2500	302	70	2.6	0.0001	180	450	620	0.037	0.014	6700	0.036	160	810	15	0.0037	93	0.68	0.0021	0.073	0.59	< 0.05	0.000018	7.2	< 0.4	2.8	140	570	48	2570	330	0.098	
North Chamber	2017-06-07	2700	347			< 0.0005				0.04	0.013		0.01	150	770		< 0.003			0.0056	0.069	< 0.1	0.018		7.25	< 0.4					350	< 0.05		
North Chamber																																		

Richmond Landfill - Historical Results (Leachate)

Location	Date	Alkalinity 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 (Total) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Organic Carbon mg/L	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	N-nitrosodimethylamine mg/L	pH (Lab) unitless	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Kjeldahl Nitrogen mg/L	Zinc mg/L				
Inorganic and General Parameters																																					
North Chamber	2018-12-06	1200	95.9			< 0.0001				0.006	0.0037		0.007	47	730		0.0006			0.0051	0.016	< 0.1	< 0.01			7.04	< 0.02						90	< 0.01			
North Chamber	2019-04-10	1600	164			0.0001				0.012	0.0055		0.063	70	830		0.0029			0.0065	0.029	< 0.1	0.054			6.98	< 0.04						150	0.03			
North Chamber	2019-05-03	1200	102	19	1	< 0.001	180	140	210	< 0.05	< 0.005	2900	< 0.02	50	730	15	< 0.005	66	0.9	0.0069	0.025	< 0.1	0.062	< 8	7.11	< 0.02	0.37	61	200	< 10	1310	94	< 0.1				
North Chamber	2019-07-03	1900	229	29	1.8	< 0.0001	200			0.013	0.0073	4700	0.005	95	840	13	0.0009	86	0.73	0.0077	0.033	< 0.1	0.011		7.12	0.01	0.98		400	< 1	210	0.019					
North Chamber	2019-10-21	3600	463			< 0.0001				0.031	0.022		0.016	240	840		0.0015			0.0016	0.092	< 1	< 0.1			7.58	< 0.02					480	0.04				
North Chamber	2019-12-03	1500	145			< 0.0001				0.009	0.005		0.005	66	810		0.0009			0.0065	0.022	< 0.1	< 0.01			6.95	0.005					140	0.015				
North Chamber	2020-01-17	1000	77.1	11	0.7	0.0001		100	160	0.007	0.0034	2400	0.024	38	550	17	0.003		0.85	0.0043	0.018	< 0.1	< 0.01	< 8	6.87	0.0041	0.54	46	170	36	1180	71	0.092				
North Chamber	2020-03-18	1200	94.3			< 0.0001				0.005	0.0029		0.003	38	660		0.0007			0.0068	0.014	< 0.1	< 0.01			6.97	0.004					93	0.011				
North Chamber	2020-05-13	1600	181	13	1.5	< 0.0001	180	210	340	0.009	0.0056	3900	< 0.002	77	700	13	< 0.0005	73	0.74	0.0087	0.024	< 0.1	< 0.01	< 8	7.42	< 0.008	0.68	89	320	< 1	1520	150	0.014				
North Chamber	2020-06-16	1100	107			< 0.0001				0.006	0.004		< 0.002	59	450		< 0.0005			0.0061	0.019	< 0.1	0.029			7.1	< 0.008					94	< 0.01				
North Chamber	2020-07-13			6	0.88		56					2000				3.7												0.24	180	< 1							
North Chamber	2020-09-17	280	6.72			< 0.0001				< 0.005	0.0006		< 0.002	19	160		< 0.0005			0.0001	0.006	< 0.1	0.017			8.29	< 0.004					7.5	< 0.01				
North Chamber	2020-12-07	1200	96.4			< 0.0001				< 0.005	0.0035		0.008	48	710		0.0008			0.0054	0.018	< 0.1	0.066			7.12	< 0.004					97	< 0.01				
North Chamber	2021-03-18	1700	193			< 0.0001				0.011	0.0078		< 0.002	83	740		< 0.0005			0.0093	0.033	< 0.1	0.055			7.2	0.0059					200	< 0.01				
North Chamber	2021-06-14	1200	135	230	1.3	< 0.0001	120	470	320	0.011	0.0056	3300	0.013	190	550	17	< 0.0005	63	0.51	0.0037	0.027	< 0.1	< 0.01	< 8	7.38	0.034	0.42	79	290	< 1	1580	130	0.059				
North Chamber	2021-07-06	370	19.3			< 0.0001				< 0.005	0.001		< 0.002	34	180		< 0.0005			0.00055	0.007	< 0.1	< 0.01			8.01	0.0041					22	< 0.01				
South Chamber	1997-05-01	2691	88.9	2220		0.009	598	3373	611	0.03		6313			2200	23.2	0.003	170								7.02	1.385		146	521	95		160				
South Chamber	1997-10-01	3420	359	1170		ND	263	2124	1316	0.11		10202			762	1687	6.71	0.004	250							7.28	1.55		457	1067	7		430				
South Chamber	1998-05-08	4320	538	983		ND	489	2170	1250	0.08		9760			619	1790	8.43	0.007	321							7.93	0.692		424	1130	5		645				
South Chamber	1998-11-18	2110	187	363		ND	347	804		ND		5030			1410	1.99		141								7.39	0.688		205	441	3		231				
South Chamber	1999-05-11	2990	283	103		ND	270	560	729	0.02		6510			1220	3.39		133								7.13	0.163		270	657	8		290				
South Chamber	1999-12-03	5830	660	4600		ND	734	10000	1900	0.36		14500			3130	25		329								7.22	34.6		537	1530	75	12100	789				
South Chamber	2000-01-04	5180	645	2100		ND	336	6320	2080	0.22		13300			1995	2240	5.04	340		ND-0.001						7.3	18.7		583	1610	7		645				
South Chamber	2000-11-22	7730	819	389		ND	94	1700	2200	0.1		18600			520	1950	4.04	417		0.0048						7.65	0.434		852	2360	3		825				
South Chamber	2001-12-07	5580	632	225	9.68		165	1460	1730	0.05	0.01	13400	0.004	370	1540	1.8	ND	273	0.37	ND-0.001	0.15	ND	ND			7.68	0.303	0.32	504	1510	27		1000	0.06			
South Chamber	2002-05-29	5090	543	358		ND	271	1490	1980	0.128		13400			326	2310	5.92	397		0.0039						7.59	0.139		913	2870	31		641				
South Chamber	2002-11-21	6130	662	295		ND	197	1260	2260	0.058		15500			484	1840	4.05	327		0.0027						7.33	0.253		623	2260	84		800				
South Chamber	2003-05-29	6200	675	88		< 0.001	113	920	1940	0.058		14600			267	1200	1.68	222		0.0039		1.41	< 0.1			7.18	0.087		560	1690	86		730				
South Chamber	2004-05-06	4700	626	71		< 0.001	109	1040	1750	0.053		12700			294	902	3.95	153		0.0029		0.33	< 0.1			7.24	0.059		439	1510	60		677				
South Chamber	2004-11-16	6420	838	121		< 0.001	91	1520	2470	0.09		17600			433	1000	1.89	188		0.0037		2.56	< 0.1			7.25	0.033		763	2290	90		1020				
South Chamber	2005-05-05	2740	286	62		< 0.001	177	625	876	0.022		7060			172	932	1.8	119		0.0012		< 0.5	< 0.1			7	0.135		178	684	29		317				
South Chamber	2005-11-02	4330	571	93		< 0.001	121	1230	1800	0.083		12500			349	780	2.2	116		0.0036		< 0.5	< 0.5			7.32	0.109		387	1460	37		643				
South Chamber	2006-05-29	6630	910	127		< 0.001	93	1750	2410	0.106		12700			534	908	1.6	164		< 0.0002		< 1	< 1			6.96	< 0.025		558	2000	21		978				
South Chamber	2006-09-13	7480	1050		15.3	0.002	63	1970	2600	0.096	0.071	19000	< 0.01	569	886	1.7	< 0.01	177	0.2	< 0.0002	0.44	< 0.1	< 0.1			7.54	0.02	7.53	706	2120	112	12300	1320	< 0.1			
South Chamber	2007-04-17	1880	240	50		< 0.001	165	477	563	< 0.05		5780			133	803	8.4	95		< 0.0002		< 0.1	< 0.1			7.23	0.024		148	535	58		260				
South Chamber	2007-10-15	8600	1130			< 0.001	58	2780	0.21	0.09		21500	< 0.01	708	795	1.9	< 0.01	158		0.0005	0.44	< 0.1	< 0.1			7.53	0.029		681	2570	22	14000	1490	< 0.1			
South Chamber	2008-05-15	6100	728	170		< 0.001	98	1200	1700	0.19		16500			445	780	1.1	170		0.0068		< 1	< 0.1			7.7	0.063		560	1900	40		940				
South Chamber	2008-11-17	6420	1220	110		< 0.0005	70	1800	2500	0.22		19400			504	780	1.7	150		0.01		< 1	< 0.1			8	0.074		620	2000	< 100		1100				
South Chamber	2009-06-02	6100	1060	85		< 0.0005	88	1300	2000	0.18		16600			483	840	1.8	150		0.0044		< 1	< 0.1			7.7	< 0.004		530	1900	< 100		1200				
South Chamber	2009-11-24	4780	909																																		

Richmond Landfill - Historical Results (Leachate)

Location	Date	Alkalinity 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 (Total) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Organic Carbon mg/L	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	N-nitrosodimethylamine mg/L	pH (Lab) unitless	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Kjeldahl Nitrogen mg/L	Zinc mg/L
Inorganic and General Parameters																																	
South Chamber	2016-05-02	4900	850	180	6.4	< 0.0005	120	1600	1600	0.12	0.035	13000	0.015	470	770	4.1	< 0.003	120	0.31	< 0.01	0.16	< 1	< 0.1	0.000046	7.78	2.3	6.7	350	1300	27	5600	900	< 0.05
South Chamber	2017-05-01	3200	431	54	3.5	< 0.0001	150	480	920	0.041	0.014	8900	0.023	170	870	4.3	0.0021	130	0.32	0.000076	0.1	< 1	< 0.1	< 0.000008	7.47	< 0.4	2.2	200	870	< 20	3600	440	0.032
South Chamber	2018-05-24	3000	382	23	3	< 0.0001	140	390	1100	0.025	0.013	7600	0.002	130	790	3.3	< 0.0005	110	0.37	0.0045	0.088	< 0.5	< 0.05	< 0.000016	7.44	< 0.04	1.7	200	830	< 1	3140	370	< 0.01
South Chamber	2019-05-03	2500	296	26	2.9	< 0.001	160	320	910	< 0.05	0.012	7200	< 0.02	120	800	3.9	< 0.005	98	0.4	0.0027	0.084	< 0.5	0.134	0.00000556	7.36	< 0.02	1.3	170	790	< 10	3120	280	< 0.1
South Chamber	2020-05-13	2000	261	18	2.9	< 0.0001	140	280	720	0.015	0.01	5700	0.002	94	590	5.5	< 0.0005	87	0.4	0.000098	0.062	< 0.2	< 0.02	< 10.6	7.87	0.0063	0.75	150	570	< 1	2170	260	0.28
South Chamber	2021-06-14	2500	352	38	3.6	< 0.0005	170	440	950	< 0.03	0.016	7500	0.013	150	850	9.9	< 0.003	110	0.41	0.0012	0.084	< 0.1	0.241	150	7.58	0.012	2	170	760	8.5	3460	380	< 0.05



Richmond Landfill - Historical Results (Leachate)

Location	Date	1,1,1,2-Tetrachloroethane mg/L	1,1,1-Trichloroethane mg/L	1,1,2,2-Tetrachloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethylene mg/L	1,2-Dichlorobenzene (o) mg/L	1,2-Dichloroethane mg/L	1,3,5-Trimethylbenzene mg/L	1,3-Dichlorobenzene (m) mg/L	1,4-Dichlorobenzene (p) mg/L	1,4-Dioxane mg/L	Benzene mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloromethane mg/L	Cis-1,2-Dichloroethylene mg/L	Dichloromethane mg/L	Ethylbenzene mg/L	m+p-Xylene mg/L	o-Xylene mg/L	Styrene mg/L	Tetrachloroethylene mg/L	Toluene mg/L	Trans-1,2-dichloroethylene mg/L	Trichloroethylene mg/L	Vinyl Chloride mg/L	
<b>Volatile Organic Compounds (VOCs)</b>																													
North Chamber	2006-01-12	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	0.009	< 0.004	0.009		0.013		< 0.01	< 0.01	< 0.004	< 0.04	0.093	0.156	0.065	0.006	< 0.003	0.178	< 0.004	< 0.003	0.005	
North Chamber	2006-02-02	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0024	< 0.0005	0.0006	< 0.0005	0.0043	< 0.0004	0.0132		0.0129		< 0.001	< 0.001	0.0016	< 0.004	0.0946	0.181	0.0623	0.0049	< 0.0003	0.122	< 0.0004	0.0003	0.0025	
North Chamber	2006-03-01	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	0.009	< 0.004	0.006		0.01		< 0.01	< 0.01	< 0.004	< 0.06	0.098	0.153	0.055	< 0.005	< 0.003	0.1	< 0.004	< 0.003	0.002	
North Chamber	2006-04-05	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	0.011	< 0.004	0.014		0.013		< 0.01	< 0.01	< 0.004	< 0.04	0.108	0.164	0.057	< 0.005	< 0.003	0.086	< 0.004	< 0.003	< 0.002	
North Chamber	2006-05-29	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.001	< 0.0005	0.0004	< 0.0005	0.0095	< 0.0004	0.0117		0.01		0.0024	< 0.001	< 0.0004	< 0.004	0.0944	0.148	0.0507	0.0033	< 0.0003	0.0472	< 0.0004	< 0.0003	0.0012	
North Chamber	2006-06-22	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	0.0013	< 0.0004	0.0019		0.0013		< 0.001	< 0.001	< 0.0004	< 0.004	0.0092	0.0148	0.0066	< 0.0005	< 0.0003	0.0047	< 0.0004	< 0.0003	< 0.0002	
North Chamber	2006-07-11	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	< 0.0004		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	< 0.0002	
North Chamber	2006-08-08	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	< 0.0004		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	< 0.0002	
North Chamber	2006-09-13	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	0.0023		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	0.0003	
North Chamber	2006-10-05	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0008	< 0.0005	< 0.0004	< 0.0005	0.0008	< 0.0004	0.004		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	0.0006	
North Chamber	2006-11-16	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.002	< 0.0005	< 0.0004	< 0.0005	0.0091	< 0.0004	0.0125		0.0034		0.0024	< 0.001	0.0008	< 0.004	0.0163	0.0566	0.0386	0.0028	< 0.0003	0.0371	< 0.0004	< 0.0003	0.0038	
North Chamber	2006-12-06	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0018	< 0.0005	< 0.0004	< 0.0005	0.0083	< 0.0004	0.009		0.0028		< 0.001	< 0.001	0.0009	< 0.004	0.0028	0.0419	0.0037	< 0.0005	< 0.0003	0.0012	0.0005	0.0003	0.0025	
North Chamber	2007-01-09	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0035	< 0.0005	0.0009	< 0.0005	0.0078	< 0.0004	0.0111		0.0084		0.003	< 0.001	0.0036	< 0.004	0.0885	0.166	0.077	0.0042	0.0006	0.137	< 0.0004	0.0012	0.0043	
North Chamber	2007-03-15	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0048	< 0.0005	< 0.0004	< 0.0005	0.0053	< 0.0004	0.0074		0.0069		0.0074	< 0.001	0.001	0.0061	0.0297	0.0806	0.0251	0.0019	0.0004	0.076	< 0.0004	0.0008	0.0031	
North Chamber	2007-04-17	< 0.005	< 0.004	< 0.005	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	0.007	< 0.004	0.01		0.009		< 0.01	< 0.01	< 0.004	< 0.04	0.052	0.105	0.039	< 0.005	0.007	0.12	< 0.004	< 0.003	0.005	
North Chamber	2007-05-08	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	< 0.0004		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	< 0.0002	
North Chamber	2007-06-05	< 0.0005	< 0.0004	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	< 0.0004		< 0.0005		< 0.001	< 0.001	< 0.0004	< 0.004	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0003	< 0.0005	< 0.0004	< 0.0003	< 0.0002	
North Chamber	2007-07-05	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0008	< 0.0005	< 0.0004	< 0.0005	< 0.0003	< 0.0004	0.0087		0.0014		0.0023	< 0.001	< 0.0004	< 0.004	0.0531	0.114	0.0371	< 0.0005	< 0.0003	0.0048	< 0.0004	< 0.0003	0.0011	
North Chamber	2007-08-16	< 0.0005	< 0.0004	0.0006	< 0.0004	0.0013	< 0.0005	< 0.0004	< 0.0005	0.0013	< 0.0004	0.0078		0.0036		0.0022	< 0.001	< 0.0004	< 0.004	0.014	0.088	0.0288	0.0022	< 0.0003	0.0267	< 0.0004	< 0.0003	0.0012	
North Chamber	2007-09-14	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.0013	< 0.0005	< 0.0004	< 0.0005	0.0008	< 0.0004	0.0088		0.0019		< 0.001	< 0.001	< 0.0004	< 0.004	0.0099	0.0576	0.0162	0.0017	< 0.0003	0.0169	< 0.0004	< 0.0003	0.0012	
North Chamber	2007-10-15	< 0.0005	< 0.0004	0.001	< 0.0004	0.0006	< 0.0005	< 0.0004	< 0.0005	0.0005	< 0.0004	0.0052		0.0031		< 0.001	0.0048	< 0.0004	< 0.004	0.0131	0.0423	0.0157	0.0012	< 0.0003	0.0075	< 0.0004	< 0.0003	0.0008	
North Chamber	2007-11-12	< 0.0005	< 0.0004	< 0.0005	< 0.0004	0.002	< 0.0005	< 0.0004	< 0.0005	0.0033	< 0.0004	0.0118		0.0042		0.0037	0.0113	< 0.0004	0.0054	0.046	0.0863	0.0375	0.002	< 0.0003	0.0136	< 0.0004	< 0.0003	0.0015	
North Chamber	2007-12-05	0.0016	< 0.0004	< 0.0005	< 0.0004	0.0013	< 0.0005	< 0.0004	< 0.0005	0.0042	< 0.0004	0.0113		0.0096		< 0.001	< 0.001	< 0.0004	< 0.004	0.0676	0.114	0.048	0.0027	< 0.0003	0.0323	< 0.0004	< 0.0003	0.0012	
North Chamber	2008-01-08	0.0022	< 0.0004	< 0.0005	< 0.0004	0.0071	< 0.0005	0.0006	< 0.0005	< 0.0003	< 0.0004	0.0168		0.0216		0.0078	< 0.001	0.0047	0.0065	0.096	0.16	0.0884	0.0078	0.0007	0.262	0.0007	0.0013	0.0112	
North Chamber	2008-02-14	< 0.001	< 0.001	< 0.002	< 0.002	0.002	< 0.001	< 0.002	< 0.002		< 0.002	0.01		0.01	0.005	0.003	< 0.005	0.001	< 0.005	0.075	0.13	0.054	< 0.003	< 0.001	0.096	< 0.001	< 0.001	0.002	
North Chamber	2008-03-17	< 0.002	< 0.002	< 0.004	< 0.004	0.002	< 0.002	< 0.004	< 0.004	0.01	< 0.004	0.012		0.011	0.006	< 0.004	< 0.01	< 0.002	< 0.01	0.085	0.15	0.062	< 0.004	< 0.002	0.11	< 0.002	< 0.002	< 0.004	
North Chamber	2008-04-03	< 0.003	< 0.003	< 0.005	< 0.005	< 0.003	< 0.003	< 0.005	< 0.005	0.011	< 0.005	0.011		0.012	0.005	< 0.005	< 0.01	< 0.003	< 0.01	0.092	0.16	0.061	< 0.005	< 0.003	0.22	< 0.003	< 0.003	< 0.005	
North Chamber	2008-05-12	< 0.0005	< 0.0005	< 0.001	< 0.001	0.0014	< 0.0005	< 0.001	< 0.001	0.007	< 0.001	0.009		0.0044	0.0042	0.003	< 0.003	< 0.0005	< 0.003	0.042	0.13	0.044	< 0.002	< 0.0005	0.014	< 0.0005	< 0.0005	< 0.001	
North Chamber	2008-05-15																												
North Chamber	2008-06-09	< 0.002	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004		< 0.004	0.007		< 0.002	< 0.002	< 0.004	< 0.01	< 0.002	< 0.01	0.008	0.061	0.036	< 0.004	< 0.002	< 0.004	< 0.002	< 0.002	< 0.004	
North Chamber	2008-07-02	< 0.002	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004		< 0.004	0.008		0.005	0.004	< 0.004	0.011	< 0.002	< 0.01	0.035	0.12	0.037	< 0.004	< 0.002	0.021	< 0.002	< 0.002	< 0.004	
North Chamber	2008-08-20	< 0.0003	< 0.0003	< 0.0005	< 0.0005	< 0.0003	< 0.0003	< 0.0005	< 0.0005		< 0.0005	0.001		0.0007	0.0004	< 0.0005	< 0.001	< 0.0003	< 0.001	0.0068	0.0095	0.0037	< 0.0005	< 0.0003	0.0015	< 0.0003	< 0.0003	< 0.0005	
North Chamber	2008-10-14	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002		< 0.002	0.007		< 0.001	0.001	< 0.002	< 0.005	< 0.001	< 0.005	0.031	0.087	0.028	< 0.002	< 0.001	< 0.002	< 0.001	< 0.001	< 0.002	
North Chamber	2008-11-17	< 0.002	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004	0.008	< 0.004	0.009		0.008	0.004	< 0.004	< 0.01	< 0.002	< 0.01	0.055	0.14	0.043	< 0.004	< 0.002	0.022	< 0.002	< 0.002	< 0.004	
North Chamber	2008-12-09	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002		< 0.002	0.006		0.003	0.003	< 0.002	<												









Richmond Landfill - Historical Results (Leachate)

Location	Date	1,1,1,2-Tetrachloroethane mg/L	1,1,1-Trichloroethane mg/L	1,1,2,2-Tetrachloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethylene mg/L	1,2-Dichlorobenzene (o) mg/L	1,2-Dichloroethane mg/L	1,3,5-Trimethylbenzene mg/L	1,3-Dichlorobenzene (m) mg/L	1,4-Dichlorobenzene (p) mg/L	1,4-Dioxane mg/L	Benzene mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloromethane mg/L	Cis-1,2-Dichloroethylene mg/L	Dichloromethane mg/L	Ethylbenzene mg/L	m+p-Xylene mg/L	o-Xylene mg/L	Styrene mg/L	Tetrachloroethylene mg/L	Toluene mg/L	Trans-1,2-dichloroethylene mg/L	Trichloroethylene mg/L	Vinyl Chloride mg/L	
<b>Volatile Organic Compounds (VOCs)</b>																													
South Chamber	2019-05-03	< 0.005	< 0.0025	< 0.005	< 0.005	< 0.0025	< 0.0025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.025	0.0052	< 0.0025	< 0.005	< 0.013	< 0.0025	< 0.013	0.0063	0.015	0.0062	< 0.005	< 0.0025	< 0.005	< 0.0025	< 0.0025	< 0.005	
South Chamber	2020-05-13	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.03	0.00065	< 0.0005	< 0.001	< 0.0025	< 0.0005	0.035	< 0.0005	0.00086	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001
South Chamber	2021-06-14	< 0.004	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.027	0.0029	< 0.002	< 0.004	< 0.01	< 0.002	< 0.01	< 0.002	0.0048	< 0.002	< 0.004	< 0.002	< 0.004	< 0.002	< 0.002	< 0.002	< 0.004