

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
<b>General and Inorganic Parameters</b>																	
<b>SHALLOW GROUNDWATER FLOW ZONE</b>																	
M53-4	1998-06-22	307	0.04		150	109	1210		0.18	36		ND	ND	3	65	153	
M53-4	1999-11-30	218	ND		154	214	1350	3.3	0.04	34		ND	ND	1	82	246	
M53-4	2000-05-29	247	0.13		154	184	1520	1.9	0.41	41		ND	ND	1	62	355	
M53-4	2002-06-19	274	0.05		195	186	1390	3	5.21	45		ND	ND	ND	34	180	
M53-4	2003-05-29	302	< 0.02		211	162	1300	2.4	0.3	40		< 0.1	< 0.1	< 1	23	201	
M53-4	2004-05-05	325	0.02	0.02	175	79	1070	1.5	0.26	34	0.22	< 0.1	< 0.1	< 1	17	166	
M53-4	2005-05-05	358	< 0.02	0.03	166	46	1010	2.4	0.14	31	0.3	< 0.1	< 0.1	< 1	17	154	
M53-4	2006-06-02	366	< 0.02	0.03	186	63	1090	3	0.04	33	0.06	< 0.1	< 0.1	< 1	21	182	708
M53-4	2007-04-18	328	< 0.02	0.03	132	20	846	2.5	0.14	22	0.11	< 0.1	< 0.1	< 1	17	104	
M53-4	2008-04-28	256	< 0.15	< 0.01	140	17	782	3.7	< 0.1	26	< 0.002	< 0.1	< 0.01	0.7	26	150	
M53-4	2009-06-15	395	< 0.15	< 0.02	160	13	1020	3.2	< 0.1	32	0.049	< 0.1	< 0.01	0.64	40	170	682
M53-4	2010-05-05	318	< 0.15		140	10	887		< 0.1	30		< 0.1	< 0.01	0.54	39	170	
M53-4	2010-10-28	362	< 0.05	< 0.02	134	5	1010	3	< 0.02	29.2	< 0.002	< 0.1	< 0.01	< 1	55.3	180	648
M53-4	2011-05-03	348	< 0.15	< 0.01	130	5	820	2.5	0.37	23	0.12	< 0.1	< 0.01	0.24	29	95	494
M53-4	2012-04-25	350	< 0.15	< 0.01	120	6	884	2.1	0.32	25	0.097	< 0.1	< 0.01	0.32	39	130	526
M53-4	2012-10-23	310	< 0.15	< 0.01	110	4	847	2.8	< 0.1	24	< 0.002	< 0.1	< 0.01	0.43	51	130	540
M53-4	2013-04-24	350	0.18	0.028	130	5	827	3.4	0.36	22	0.4	< 0.1	< 0.01	0.29	26	82	536
M53-4	2014-05-06	420	0.44	< 0.01	140	3	897	5	0.77	22	0.63	< 0.1	< 0.01	0.41	28	66	518
M53-4	2014-10-21	440	< 0.15	0.019	140	2	997	2.9	< 0.1	27	0.0088	0.34	< 0.01	0.28	47	110	608
M53-4	2015-04-23	420	< 0.15	0.025	140	3	867	3.7	< 0.1	27	0.021	< 0.1	< 0.01	0.24	34	65	534
M53-4	2015-11-24	390	< 0.15	< 0.01	150	2	886	2.5	< 0.1	30	0.0053	< 0.1	< 0.01	0.27	47	96	626
M53-4	2016-05-05	480	< 0.15	< 0.01	150	3.2	1010	2.5	1.3	34	0.12	< 0.1	< 0.01	< 0.2	41	81	604
M53-4	2017-05-03	370	< 0.15	< 0.02	120	1.6	780	2.9	< 0.1	20	0.008	< 0.1	< 0.01	< 0.2	25	62	534
M53-4	2017-10-17	400	< 0.15	< 0.02	120	2.6	840	2.4	< 0.1	27	< 0.002	< 0.1	< 0.01	0.53	41	100	560
M53-4	2018-05-15	490	< 0.15	< 0.02	130	2.3	970	2.1	0.51	28	0.056	< 0.1	< 0.01	0.33	35	67	525
M53-4	2018-10-16	370	< 0.15	< 0.02	110	1.5	820	3.3	< 0.1	22	< 0.002	< 0.1	< 0.01	0.37	39	91	485
M53-4	2019-05-02	360	< 0.15	< 0.02	130	2.1	720	3.5	< 0.1	19	0.1	< 0.1	< 0.01	< 0.2	19	39	490
M53-4	2019-10-29	250	< 0.15	< 0.02	81	1.9	560	3.9	< 0.1	13	0.008	< 0.1	< 0.01	0.24	22	44	350
M53-4	2020-04-09	360	< 0.15	< 0.02	110	< 1	710	2.5	0.18	17	0.053	< 0.1	0.035	< 0.2	20	35	475
M53-4	2021-05-06	420	< 0.15	< 0.02	140	1.6	810	2.9	< 0.1	22	0.004	< 0.1	< 0.01	0.22	29	55	480
M54-4	1998-06-22	287	0.03		108	33	707		0.46	23		1.35	ND	ND	19	48	
M54-4	1999-12-02	231	ND		109	41	683	1.1	0.19	23		1.22	ND	1	19	52	
M54-4	2009-06-15	285	< 0.15	0.025	140	130	1040	2.7	< 0.1	30	< 0.002	1.1	0.01	1.4	38	62	680
M54-4	2010-10-26	363	< 0.05	0.037	131	78	980	2.2	< 0.02	25.4	0.002	0.2	< 0.01	1	54.8	39	620
M54-4	2011-05-03	341	< 0.15	0.025	130	68	931	1.4	< 0.1	27	0.003	0.2	< 0.01	1.2	42	38	590
M54-4	2011-10-24	330	< 0.15	0.031	120	62	876	2	< 0.1	23	0.003	0.1	< 0.01	1.4	39	37	666
M54-4	2012-04-24	380	< 0.15	0.044	120	44	890	1.7	< 0.1	23	0.0052	0.1	< 0.01	1.2	53	33	526
M54-4	2012-10-23	410	< 0.15	0.034	130	67	1000	2	< 0.1	26	0.0074	< 0.1	< 0.01	1.4	53	41	564
M54-4	2013-04-23	400	< 0.15	0.032	140	68	1020	3.6	< 0.1	29	0.015	< 0.1	< 0.01	1.4	66	45	602
M54-4	2013-10-21	360	< 0.15	0.034	140	72	969	2.2	< 0.1	27	0.031	< 0.1	< 0.01	1.6	43	49	590
M54-4	2014-05-06	410	< 0.15	0.041	150	86	1080	2.4	< 0.1	28	0.012	< 0.1	< 0.01	1.4	61	53	602
M54-4	2014-10-22	380	< 0.15	0.034	140	77	1010	4.3	< 0.1	28	0.01	< 0.1	< 0.01	1.5	45	55	624
M54-4	2015-04-23	430	< 0.15	0.03	140	74	1090	2.5	< 0.1	27	0.019	< 0.1	< 0.01	1.4	52	51	628
M54-4	2015-11-23	410	< 0.15	0.046	150	89	1120	3.4	< 0.1	30	0.017	< 0.1	< 0.01	1.9	66	64	662
M54-4	2016-05-05	460	< 0.15	0.038	140	49	1070	2.7	< 0.1	30	0.022	< 0.1	< 0.01	1.4	62	50	622
M54-4	2016-10-19	450	< 0.15	0.043	140	82	1100	3.2	< 0.1	31	0.025	< 0.1	< 0.01	1.9	68	58	704
M54-4	2017-05-03	490	< 0.15	0.042	140	45	1100	3.1	< 0.1	31	0.027	< 0.1	< 0.01	1.4	60	61	704
M54-4	2017-10-16	460	< 0.15	0.044	140	49	1000	2.6	< 0.1	28	0.019	< 0.1	< 0.01	1.5	58	64	620
M54-4	2018-05-15	460	< 0.15	0.037	140	30	970	2.9	< 0.1	30	0.016	< 0.1	< 0.01	1.3	58	66	585
M54-4	2018-10-16	470	< 0.15	0.047	150	47	1100	3.4	< 0.1	28	0.023	< 0.1	< 0.01	1.6	60	73	670
M54-4	2019-05-02	470	< 0.15	0.038	150	18	960	3.2	< 0.1	28	0.031	< 0.1	< 0.01	1.1	40	43	655
M54-4	2019-10-30	480	< 0.15	0.041	150	43	1100	3.3	< 0.1	29	0.028	< 0.1	< 0.01	1.5	56	59	640
M54-4	2020-04-09	480	< 0.15	0.043	140	35	1100	2.6	< 0.1	31	0.017	< 0.1	< 0.01	1.4	51	44	635
M54-4	2020-10-28	480	< 0.15	0.058	150	47	1100	2.9	< 0.1	31	0.034	< 0.1	< 0.01	1.8	76	59	650
M54-4	2021-05-04	470	< 0.15	0.033	140	28	980	3.1	< 0.1	27	0.024	< 0.1	< 0.01	1.2	42	36	540
M58-4	1998-06-24	238	0.17			2	520					4.25	ND			24	
M58-4	1998-07-01				102				0.05	18				1	27		

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General and Inorganic Parameters																	
M58-4	1999-12-03	298	ND		97	3	658	0.8	ND	21		2.51	ND	1	16	30	
M58-4	2000-05-29	310	0.07		80	1	584	0.6	0.04	17		2.61	ND	ND	5	18	
M58-4	2002-06-18	301	ND		92	1	572	1.3	0.01	18		0.27	ND	ND	ND	13	
M58-4	2003-05-27	293	< 0.02		81	2	548	0.7	0.02	19		0.16	< 0.1	< 1	3	14	
M58-4	2004-05-05	285	< 0.02	< 0.01	90	6	550	< 0.5	< 0.01	18	< 0.01	0.25	< 0.1	< 1	5	14	
M58-4	2005-05-03	313	< 0.02	0.05	116	9	603	0.7	< 0.01	22	< 0.01	0.13	< 0.1	< 1	7	35	
M66-2	1998-06-23	291	0.06		127	105	1620		0.64	45		ND	ND	8	200	502	
M66-2	1999-12-03	339	ND		103	93	2040	2.3	0.21	41		ND	ND	6	251	557	
M66-2	2006-06-05	319	0.28	1.06	106	97	1780	1.5	0.11	47	0.02	0.12	< 0.1	8	218	506	1340
M66-2	2010-10-26	341	0.33	1.4	101	140	1720	2.3	1.11	43.6	0.027	0.3	< 0.01	8	218	340	1070
M66-2	2011-05-03	321	0.25	0.79	130	160	1800	1.9	< 0.1	53	0.023	0.2	0.01	6.4	180	370	1160
M66-2	2011-10-24	370	0.21	1.4	98	120	1680	1.7	0.66	43	0.032	< 0.1	< 0.01	9.7	220	310	1130
M66-2	2012-04-24	320	< 0.15	0.85	130	140	1750	1.5	0.6	55	0.036	< 0.1	< 0.01	6.4	180	370	1110
M66-2	2012-10-23	380	0.53	1.4	83	140	1680	5	1.6	40	0.036	< 0.1	< 0.01	10	230	250	960
M66-2	2013-04-23	280	0.17	0.7	150	140	1770	1.8	0.24	58	0.02	< 0.1	< 0.01	6.5	180	370	1160
M66-2	2013-10-21	340	0.18	1	120	140	1640	1.7	0.37	44	0.016	< 0.1	< 0.01	7.4	170	310	1030
M66-2	2014-05-07	310	< 0.15	0.44	140	120	1420	2.5	< 0.1	49	0.0094	0.11	< 0.01	5	120	280	958
M66-2	2014-10-22	340	< 0.15	0.47	130	100	1380	3.9	2.7	43	0.042	< 0.1	< 0.01	4.3	110	240	860
M66-2	2015-04-23	320	< 0.15	0.33	120	100	1330	1.9	0.74	40	0.069	< 0.1	< 0.01	4	100	240	834
M66-2	2015-11-24	330	< 0.15	0.78	100	95	1290	1.6	0.49	40	0.018	< 0.1	< 0.01	6.2	140	220	800
M66-2	2016-05-03	320	< 0.15	0.29	120	86	1170	1.8	< 0.1	40	< 0.002	< 0.1	< 0.01	4	92	210	530
M66-2	2016-10-20	410	0.27	1.2	80	110	1400	1.8	0.27	33	0.027	< 0.1	< 0.01	8	190	180	822
M66-2	2017-05-04	290	< 0.15	0.39	130	100	1400	1.4	0.52	42	0.043	< 0.1	< 0.01	4.6	110	290	888
M66-2	2017-10-16	340	< 0.15	0.42	110	100	1200	2.2	1.6	35	0.051	< 0.1	< 0.01	3.9	96	220	765
M66-2	2018-05-15	300	< 0.15	0.24	110	100	1200	1.8	< 0.1	36	0.007	< 0.1	< 0.01	3.4	80	230	720
M66-2	2018-10-18	390	0.29	1.1	82	110	1400	2.8	0.17	30	0.019	< 0.1	< 0.01	7.3	170	170	730
M66-2	2019-04-30	220	< 0.15	0.3	110	99	1200	1.6	< 0.1	34	< 0.002	0.27	< 0.01	3.8	91	260	820
M66-2	2019-10-29	360	< 0.15	1.2	73	120	1400	2.5	< 0.1	27	0.013	< 0.1	< 0.01	7.6	190	190	845
M66-2	2020-04-14	220	< 0.15	0.43	110	100	1200	1.4	< 0.1	35	< 0.002	0.17	< 0.01	4.3	110	270	750
M66-2	2020-10-27	390	0.33	1.4	65	130	1500	1.7	0.23	27	0.018	< 0.1	< 0.01	8.4	220	210	905
M66-2	2021-05-04	250	< 0.15	0.38	120	110	1300	1.8	< 0.1	35	< 0.002	0.14	< 0.01	3.8	98	250	700
M67-2	1998-07-01	301	0.12		99	15	956		0.19	35		ND	ND	11	62	185	
M67-2	1999-12-03	329	0.32		66	10	1520	3.9	0.51	36		0.14	ND	10	231	408	
M67-2	2010-10-26	388	1.7	0.77	47.6	5	881	2.6	0.59	27.1	0.082	0.3	0.4	9	76.6	77	552
M67-2	2011-05-04	337	1.06	0.67	55	6	806	1.6	2.7	31	0.097	< 0.1	0.02	7.7	70	85	484
M67-2	2011-10-24	365	1.22	0.82	50	5	798	2.9	1.6	28	0.088	< 0.1	< 0.01	8.8	61	53	500
M67-2	2012-04-24	340	0.67	0.69	57	6	743	1.9	2.6	30	0.064	< 0.1	0.012	7.8	63	51	468
M67-2	2012-10-23	360	0.98	0.83	51	5	724	2.5	0.4	29	0.047	< 0.1	0.021	9.4	82	27	384
M67-2	2013-04-23	360	0.6	0.72	58	5	744	3.2	0.79	33	0.053	< 0.1	< 0.01	8.3	70	33	394
M67-2	2013-10-22	360	1.2	0.76	49	5	723	1.8	0.45	28	0.052	< 0.1	0.016	8.6	58	24	402
M67-2	2014-05-07	360	0.73	0.75	48	6	658	1.7	0.41	26	0.039	< 0.1	< 0.01	7.4	61	5	378
M67-2	2014-10-22	360	0.57	1	56	5	767	2.9	0.99	32	0.05	< 0.1	0.011	9.8	59	54	428
M67-2	2015-04-22	350	0.55	0.79	49	6	682	2.2	0.59	30	0.052	< 0.1	0.035	7.8	62	20	410
M67-2	2015-11-25	350	0.56	0.85	49	5.8	662	1.8	< 0.1	27	0.098	< 0.1	< 0.01	8.7	56	4.9	370
M67-2	2016-05-03	340	0.5	0.73	49	5	636	1.9	0.29	28	0.029	< 0.1	< 0.01	7.7	53	7.9	176
M67-2	2016-10-19	350	0.78	0.84	49	5.5	660	2.4	0.64	30	0.063	< 0.1	< 0.01	9.5	51	3.6	386
M67-2	2017-05-04	330	0.44	0.75	50	4.9	660	1.8	0.49	29	0.029	< 0.1	< 0.01	8.3	50	24	338
M67-2	2017-10-18	320	0.45	0.83	46	4.3	580	1.9	0.65	27	0.024	< 0.1	< 0.01	8.6	47	9	385
M67-2	2018-05-17	350	0.52	0.69	44	4.9	640	2	0.31	26	0.016	< 0.1	< 0.01	7.7	45	4.6	525
M67-2	2018-10-17	350	0.75	0.92	45	5.2	640	2.5	0.39	29	0.021	< 0.1	< 0.01	9.8	49	4.6	315
M67-2	2019-04-30	370	0.31	0.77	59	5.4	720	2.1	1	31	0.062	< 0.1	0.024	7.8	51	21	410
M67-2	2019-10-29	350	0.69	0.84	47	5.2	660	0.92	0.61	28	0.058	< 0.1	0.01	9	47	3.1	375
M67-2	2020-04-14	370	0.37	0.69	55	5.3	680	1.8	0.63	29	0.063	< 0.1	< 0.01	7.7	49	6.3	380
M67-2	2021-05-06	350	0.47	0.71	48	5.1	640	2.1	0.54	28	0.045	< 0.1	< 0.01	8.3	50	2.9	325
M68-4	1998-06-25	262	ND		124	16	568		0.02	19		ND	ND	ND	5	33	
M68-4	1999-11-30	255	ND		108	23	689	2.1	0.02	17		ND	ND	ND	17	85	
M68-4	2010-10-28	368	< 0.05	< 0.02	147	55	901	2.9	0.4	22.4	0.1	< 0.1	< 0.01	< 1	19.7	26	562
M68-4	2011-05-04	290	< 0.15	< 0.01	100	17	622	1.8	0.14	16	0.089	< 0.1	< 0.01	0.25	16	17	374

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General and Inorganic Parameters																	
M68-4	2012-04-24	270	<0.15	0.02	98	17	603	2.1	0.14	15	0.066	<0.1	<0.01	0.24	16	25	366
M68-4	2012-10-23	320	<0.15	<0.01	120	22	751	2.5	<0.1	19	0.0063	<0.1	<0.01	0.37	21	50	450
M68-4	2013-04-23	280	<0.15	<0.01	110	25	681	2.9	0.13	17	0.079	<0.1	<0.01	0.3	20	34	400
M68-4	2013-10-24	250	<0.15	<0.01	140	22	595	2.4	0.14	24	0.096	<0.1	<0.01	0.41	25	35	508
M68-4	2014-05-07	350	<0.15	<0.01	130	13	731	2.8	0.31	18	0.086	<0.1	<0.01	0.21	16	32	434
M68-4	2014-10-22	430	0.21	<0.01	140	13	844	3.5	2.8	22	0.27	<0.1	<0.01	0.45	23	33	466
M68-4	2015-04-24	330	<0.15	<0.01	110	11	690	4.1	0.16	19	0.13	<0.1	<0.01	<0.2	15	38	396
M68-4	2016-05-03	340	<0.15	0.018	110	7.9	682	2.4	0.21	18	0.14	<0.1	<0.01	0.25	15	28	266
M68-4	2017-05-04	300	<0.15	<0.02	98	10	640	2.5	<0.1	16	0.066	<0.1	<0.01	0.23	14	37	376
M68-4	2018-05-17	370	<0.15	<0.02	110	11	690	2.2	0.54	19	0.28	<0.1	<0.01	0.33	16	15	515
M68-4	2019-04-30	310	<0.15	<0.02	100	12	650	2	0.5	17	0.21	<0.1	<0.01	0.27	15	24	425
M68-4	2020-04-16	310	<0.15	<0.02	100	12	670	2.2	<0.1	16	0.063	<0.1	<0.01	<0.2	13	34	395
M68-4	2021-05-06	220	<0.15	0.021	82	8.5	520	2.2	<0.1	14	0.021	<0.1	<0.01	0.27	16	44	255
M70-3	1998-07-01	282	0.3		94	86	1010		0.49	29		1.66	ND	7	82	108	
M70-3	1999-12-01	337	ND		80	4	730	2	0.03	29		3.43	ND	2	42	99	
M70-3	2010-10-27	254	<0.05	<0.02	141	35	882	4.2	<0.02	23.1	<0.002	<0.1	<0.01	<1	18.8	130	552
M70-3	2011-05-03	372	<0.15	0.05	150	30	992	3.4	1.7	35	0.31	<0.1	<0.01	0.49	20	120	606
M70-3	2012-04-24	290	<0.15	0.011	160	39	1120	2.9	0.21	41	0.075	<0.1	<0.01	0.38	28	260	774
M70-3	2012-10-22	320	0.19	<0.01	160	30	1030	3.5	<0.1	32	<0.002	<0.1	<0.01	0.52	23	190	714
M70-3	2013-04-25	410	<0.15	0.012	150	20	987	3.3	2.6	35	0.29	<0.1	<0.01	0.38	21	120	634
M70-3	2013-10-23	380	<0.15	0.017	150	42	1100	2.8	0.13	52	0.11	<0.1	<0.01	0.9	25	160	744
M70-3	2014-05-08	410	<0.15	0.011	150	70	1110	5.5	4.6	47	0.27	<0.1	<0.01	0.56	25	100	636
M70-3	2014-10-23	350	<0.15	0.014	140	43	1040	5.7	<0.1	42	0.017	<0.1	<0.01	0.86	24	160	682
M70-3	2015-04-23	390	<0.15	0.023	140	40	1020	2.7	3.7	41	0.2	<0.1	<0.01	0.51	22	98	632
M70-3	2016-05-06	440	<0.15	<0.01	140	14	891	3	3.5	34	0.28	<0.1	<0.01	0.59	21	62	532
M70-3	2017-05-01	310	<0.15	<0.02	120	14	860	2.9	0.96	34	0.13	<0.1	<0.01	0.38	23	140	548
M70-3	2018-05-15	420	<0.15	<0.02	150	14	870	3.2	2.9	38	0.16	<0.1	<0.01	0.31	23	63	440
M70-3	2019-05-01	330	<0.15	<0.02	110	15	820	2.9	0.37	23	0.2	<0.1	<0.01	0.49	21	100	570
M70-3	2020-04-09	330	<0.15	<0.02	120	16	900	3.1	0.67	37	0.13	<0.1	<0.01	0.27	26	140	720
M70-3	2021-05-05	260	<0.15	<0.02	110	9	680	3.5	0.23	24	0.12	<0.1	<0.01	0.33	18	96	430
M80-2	2004-11-12	312	0.09	0.07	155	5	941	2.4	0.01	37	0.54	<0.1	<0.1	4	17	203	
M80-2	2005-05-02	282	0.2	0.04	94	6	750	1.7	0.9	38	0.08	<0.1	<0.1	3	10	147	
M80-2	2006-06-06	280	<0.02	0.11	68	10	587	0.9	0.03	33	0.03	<0.1	<0.1	2	7	38	382
M80-2	2007-04-23	279	0.02	0.04	70	7	618	1	0.2	35	0.01	<0.1	<0.1	3	9	39	
M80-2	2009-06-16	239	<0.15	0.03	59	7	536	2.6	<0.1	31	0.041	<0.1	<0.01	2.5	7.5	46	350
M80-2	2010-10-26	296	0.46	0.074	70.2	18	772	1.5	0.52	36.8	0.019	<0.1	<0.01	3	17.5	93	502
M80-2	2011-05-03	273	<0.15	0.09	73	23	703	1.2	0.29	41	0.006	<0.1	<0.01	4.5	22	66	458
M80-2	2011-10-24	274	<0.15	0.11	73	27	741	1.7	0.69	40	0.032	<0.1	0.01	4.8	25	72	498
M80-2	2012-04-24	280	<0.15	0.092	72	32	730	1.1	0.37	38	0.0086	<0.1	<0.01	4.2	20	60	432
M80-2	2012-10-22	270	0.19	0.096	74	40	736	1.6	0.73	41	0.033	<0.1	<0.01	4.4	22	40	448
M80-2	2013-04-24	290	<0.15	0.071	84	49	815	2.3	<0.1	43	0.0024	<0.1	<0.01	4.1	17	44	480
M80-2	2013-10-23	320	<0.15	0.06	93	63	839	1.5	<0.1	51	0.032	<0.5	<0.05	4.2	15	36	498
M80-2	2014-05-07	320	<0.15	0.053	96	75	870	2.2	<0.1	52	<0.002	<0.1	<0.01	3.9	16	38	558
M80-2	2014-10-22	340	<0.15	0.049	98	78	902	2.7	<0.1	53	0.021	<0.1	0.021	4	15	37	518
M80-2	2015-04-24	330	<0.15	0.042	94	84	913	1.9	<0.1	54	<0.002	<0.1	<0.01	4	17	37	532
M80-2	2015-11-23	330	<0.15	0.048	96	85	938	2	<0.1	51	0.018	<0.1	<0.01	4.2	16	40	520
M80-2	2016-05-04	330	<0.15	0.057	96	82	905	2.1	<0.1	49	<0.002	<0.1	<0.01	4.1	18	44	442
M80-2	2016-10-19	330	0.15	0.078	94	81	910	2.1	<0.1	54	0.038	<0.1	0.014	5.9	29	45	618
M80-2	2017-05-02	340	<0.15	0.05	94	64	890	1.6	<0.1	51	0.008	<0.1	<0.01	4.6	21	39	534
M80-2	2017-10-17	370	<0.15	0.054	89	65	870	2	<0.1	47	0.04	<0.1	<0.01	4.5	21	46	515
M80-2	2018-05-17	380	<0.15	0.039	87	47	880	2	<0.1	46	0.002	<0.1	<0.01	3.8	24	44	585
M80-2	2018-10-15	370	<0.15	0.048	89	54	860	2.4	<0.1	50	0.01	<0.1	<0.01	3.7	22	40	510
M80-2	2019-05-01	340	<0.15	0.049	92	44	850	3.3	<0.1	49	<0.002	<0.1	<0.01	4	29	45	555
M80-2	2019-10-29	360	<0.15	0.04	86	45	860	2.7	<0.1	44	0.007	<0.1	<0.01	3.5	25	37	455
M80-2	2020-04-17	350	<0.15	0.042	81	39	840	1.8	<0.1	44	<0.002	<0.1	<0.01	3.4	28	39	455
M80-2	2020-10-27	350	<0.15	0.042	83	45	840	1.8	<0.1	44	0.007	<0.1	<0.01	3.6	26	37	510
M80-2	2021-05-04	350	<0.15	0.048	82	40	820	2	<0.1	41	<0.002	<0.1	<0.01	3.6	28	41	420
M81	2004-11-12	358	<0.02	0.03	110	17	826	1.7	0.34	45	0.12	<0.1	<0.1	2	10	77	

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M81	2005-05-02	350	0.04	0.03	99	16	728	2.1	1.91	42	0.06	<0.1	<0.1	2	9	51	
M81	2006-06-06	354	<0.02	0.08	96	27	781	1.1	0.29	42	0.03	<0.1	<0.1	2	10	47	508
M81	2007-04-23	351	<0.02	0.03	97	39	842	1.4	0.05	44	0.02	<0.1	<0.1	2	10	52	
M81	2009-06-16	350	<0.15	0.028	100	56	886	2.2	<0.1	48	0.007	0.1	<0.01	2.1	9.4	52	585
M81	2010-10-26	353	0.13	0.19	96.1	49	915	2.4	3.74	44.8	0.061	<0.1	<0.01	6	62	58	592
M81	2011-05-03	346	<0.15	0.045	100	47	885	1.7	<0.1	50	0.007	<0.1	<0.01	2.2	11	46	540
M81	2011-08-04	338	<0.15	0.036	98	49	865	1	<0.1	45	0.034	<0.1	<0.01	2.4	10	44	586
M81	2011-10-24	349	<0.15	0.058	100	48	897	1.4	0.44	49	0.051	<0.1	<0.01	3.3	18	47	612
M81	2011-11-16	348	<0.15	0.043	100	58	891	1.8	<0.1	53	0.028	<0.1	<0.01	3	16	43	570
M81	2012-02-23	318	<0.15	0.034	100	63	884	55.2	<0.1	51	0.013	<0.1	<0.01	2.4	11	42	516
M81	2012-04-24	360	<0.15	0.035	110	61	916	1.2	<0.1	52	0.018	<0.1	<0.01	2.2	10	41	534
M81	2012-05-09	350	<0.15	0.036	100	64	906	2	<0.1	50	0.017	<0.1	<0.01	2.2	9.7	40	570
M81	2012-10-23	340	<0.15	0.038	100	61	888	1.5	<0.1	50	0.028	<0.1	<0.01	2.6	12	42	514
M81	2013-04-24	360	<0.15	0.035	110	64	935	1.6	<0.1	53	0.009	<0.1	<0.01	2.4	11	43	592
M81	2013-10-21	360	<0.15	0.038	110	62	924	1.5	<0.1	54	0.03	<0.1	<0.01	2.7	12	40	532
M81	2014-05-07	360	<0.15	0.028	110	73	932	1.4	<0.1	55	0.015	<0.1	<0.01	2.2	11	39	570
M81	2014-10-22	360	<0.15	0.032	110	73	942	1.9	<0.1	53	0.024	<0.1	<0.01	2.4	12	40	416
M81	2015-04-24	340	<0.15	0.025	100	80	929	1.6	<0.1	55	0.011	<0.1	<0.01	2.5	12	39	498
M81	2015-11-23	350	<0.15	0.034	110	83	965	1.7	<0.1	53	0.013	<0.1	<0.01	2.5	13	39	506
M81	2016-05-04	350	<0.15	0.032	110	86	938	1.5	<0.1	51	0.0053	<0.1	<0.01	2.1	10	42	454
M81	2016-10-20	350	<0.15	0.04	100	81	930	1.7	<0.1	54	0.02	<0.1	<0.01	2.6	12	41	326
M81	2017-05-02	340	<0.15	0.027	100	86	950	1.1	<0.1	52	0.007	<0.1	<0.01	2.2	11	37	480
M81	2017-10-17	350	<0.15	0.036	96	83	910	1.5	<0.1	50	0.035	<0.1	<0.01	2.4	10	40	550
M81	2018-05-18	340	<0.15	0.028	96	86	900	1.3	<0.1	51	0.004	<0.1	<0.01	2.2	9.6	39	465
M81	2018-10-15	330	<0.15	0.032	99	83	900	1.8	<0.1	50	0.025	<0.1	<0.01	2.5	12	39	520
M81	2019-05-02	310	<0.15	0.032	100	84	890	1.9	<0.1	49	0.004	<0.1	<0.01	2.2	10	42	575
M81	2019-10-29	310	<0.15	0.048	97	83	900	1.8	<0.1	48	0.017	<0.1	<0.01	2.4	11	39	520
M81	2020-04-09	320	<0.15	0.029	100	81	910	1.2	<0.1	49	0.003	<0.1	<0.01	2.1	9.8	35	595
M81	2020-10-27	320	<0.15	0.034	96	82	900	1.5	<0.1	50	0.021	<0.1	<0.01	2.5	11	36	625
M81	2021-05-04	320	<0.15	0.028	95	70	860	1.4	<0.1	47	0.004	<0.1	<0.01	2.2	9.4	38	510
M85	2015-11-25	320	0.85	2.1	110	46	2440	5.3	2.7	68	0.073	<0.1	0.02	25	360	850	1740
M85	2015-12-22	280	1.48	2.1	130	47	2780	7.7	1.8	73	0.041	0.21	0.026	26	370	1100	1980
M85	2019-04-30	420	<0.15	1.9	51	35	1500	2.4	<0.1	28	0.007	3.72	<0.01	15	260	310	1070
M85	2019-10-29	430	<0.15	1.9	47	37	1500	1.8	0.13	26	0.025	2.85	<0.01	16	260	280	950
M85	2020-04-14	400	<0.15	1.7	43	35	1500	2.2	<0.1	26	0.005	3.08	<0.01	14	230	300	840
M86	2006-06-05	237	1.9	0.96	277	61	2310	5.5	12.6	82	0.38	<0.1	<0.1	39	126	1040	1850
M86	2015-11-26	290	<0.15	1.5	110	54	1510	2.7	0.34	62	0.021	0.12	<0.01	23	150	400	1000
M86	2016-10-19	340	<0.15	1.1	76	37	1000	3.1	0.25	38	0.034	0.39	0.015	19	93	150	622
M86	2017-05-04	340	<0.15	1	72	40	1100	2.1	0.53	37	0.048	<0.1	<0.01	16	93	190	670
M86	2017-10-17	350	<0.15	1.1	63	36	940	2.2	<0.1	32	0.016	0.34	<0.01	17	82	130	575
M86	2018-05-15	330	<0.15	0.92	63	38	1000	2.1	<0.1	33	0.006	0.47	<0.01	14	92	140	520
M86	2018-10-17	360	<0.15	1.1	65	38	970	2.4	0.21	33	0.02	0.19	<0.01	17	96	110	520
M86	2019-04-30	310	<0.15	0.93	65	37	940	2.3	0.12	33	0.011	0.55	<0.01	14	98	130	600
M86	2019-10-29	350	<0.15	1	62	38	940	1.4	0.12	31	0.011	<0.1	<0.01	15	99	110	550
M86	2020-04-14	330	<0.15	0.9	60	36	990	1.8	0.3	32	0.009	0.33	<0.01	14	98	130	570
M86	2020-10-28	350	<0.15	1.1	65	36	960	2.2	<0.1	33	0.01	0.43	<0.01	17	100	110	540
M86	2021-05-05	320	<0.15	0.89	56	36	960	3	<0.1	30	0.004	1.02	<0.01	13	99	130	525
M87-2	2010-10-27	221	<0.05	0.043	57.6	29	611	1.2	<0.02	38.7	0.007	<0.1	<0.01	2	16.3	53	392
M87-2	2011-05-02	203	<0.15	0.026	56	31	595	1	<0.1	37	0.003	<0.1	<0.01	2.2	13	60	352
M87-2	2011-10-25	225	<0.15	0.034	59	27	623	1.3	<0.1	39	0.009	<0.1	<0.01	2.4	16	57	422
M87-2	2012-04-25	220	<0.15	0.032	54	30	595	3.7	<0.1	36	0.0039	<0.1	<0.01	2	12	50	334
M87-2	2012-10-23	230	<0.15	0.035	55	25	619	1.8	<0.1	38	0.0084	<0.1	<0.01	2.3	17	55	386
M87-2	2013-04-24	210	<0.15	0.033	54	30	598	1.8	<0.1	37	0.0033	<0.1	<0.01	2	13	52	372
M87-2	2013-10-24	190	<0.15	0.035	55	25	536	1.4	<0.1	38	0.0086	<0.1	<0.01	2.3	15	55	354
M87-2	2014-05-08	220	<0.15	0.024	55	30	588	1.9	<0.1	34	0.0046	<0.1	<0.01	1.8	13	49	348
M87-2	2014-10-23	230	<0.15	0.037	54	28	596	1.6	<0.1	37	0.13	<0.1	<0.01	2.1	14	50	308
M87-2	2015-04-23	210	<0.15	0.042	55	29	585	1.3	<0.1	36	0.0034	<0.1	<0.01	2.1	12	50	330
M87-2	2015-11-24	230	0.23	0.05	58	27	613	1.7	<0.1	39	0.084	<0.1	<0.01	2.4	14	50	370

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M87-2	2016-05-05	200	<0.15	0.038	51	29	556	1.7	<0.1	36	0.0094	<0.1	<0.01	1.9	13	48	272
M87-2	2016-10-18	240	<0.15	0.039	57	26	620	1.6	<0.1	39	0.029	<0.1	<0.01	2.3	14	74	358
M87-2	2017-05-02	210	<0.15	0.037	48	33	580	1.1	<0.1	35	0.007	<0.1	<0.01	1.9	13	46	324
M87-2	2017-10-19	240	<0.15	0.036	52	27	590	1.3	<0.1	34	0.009	<0.1	<0.01	2	12	50	295
M87-2	2018-05-17	230	<0.15	0.032	51	30	570	1.6	<0.1	34	0.005	<0.1	<0.01	1.8	11	49	505
M87-2	2018-10-15	230	<0.15	0.038	53	27	580	1.6	<0.1	37	0.008	<0.1	<0.01	2.1	14	52	320
M87-2	2019-05-02	200	<0.15	0.033	53	29	570	1.7	<0.1	35	0.004	<0.1	<0.01	1.8	11	50	395
M87-2	2019-10-30	220	0.29	0.046	54	27	580	2	0.16	36	0.015	<0.1	<0.01	2.1	14	51	310
M87-2	2020-04-17	210	<0.15	0.031	49	30	580	1.4	<0.1	34	0.006	<0.1	<0.01	1.8	12	47	305
M87-2	2020-10-28	230	<0.15	0.031	57	25	600	1.6	<0.1	35	0.009	<0.1	<0.01	2.1	13	50	350
M87-2	2021-05-06	210	<0.15	0.036	55	29	580	1.7	<0.1	36	0.006	<0.1	<0.01	2	12	51	305
M96	2008-07-03	303	<0.15		88	6	716	5.7	<0.1	33		3.3	0.37	4.1	20	72	
M96	2008-11-19	324	0.36		68	6	727	3.4	<0.1	35		0.5	0.02	5.9	29	72	
M96	2010-05-06	315	<0.15		72	5	662		<0.1	35		1.8	<0.01	4.2	25	50	
M96	2010-10-27	306	<0.05	0.071	77.8	5	670	2	<0.02	34	0.006	2.1	<0.01	4	17.3	40	438
M96	2011-05-03	298	<0.15	0.064	71	4	652	1.8	<0.1	34	<0.002	2.2	<0.01	4.5	27	38	404
M96	2011-10-25	304	<0.15	0.14	72	6	675	1.7	<0.1	40	0.014	2.1	<0.01	5.9	22	45	376
M96	2012-04-24	310	<0.15	0.054	120	4	674	1.4	2.3	36	0.085	1.9	<0.01	4.1	22	37	398
M96	2012-10-22	310	<0.15	0.17	68	5	668	1.4	<0.1	39	0.0062	0.64	<0.01	6.1	20	41	372
M96	2013-04-25	310	<0.15	0.069	69	4	657	2	<0.1	33	<0.002	1.4	<0.01	4.2	23	37	386
M96	2013-10-23	310	<0.15	0.091	70	5	642	2	<0.1	38	0.0047	1.8	0.014	4.7	14	38	352
M96	2014-05-08	320	<0.15	0.062	68	5	670	3.6	<0.1	32	<0.002	1.75	<0.01	4.5	32	37	370
M96	2014-10-23	300	<0.15	0.069	65	6	636	2.1	<0.1	35	0.0044	2.12	<0.01	4.5	17	37	346
M96	2015-04-23	300	<0.15	0.074	65	4	631	1.5	<0.1	32	<0.002	1.27	<0.01	4.6	21	39	356
M96	2016-05-06	290	<0.15	0.085	60	4.7	614	1.7	<0.1	33	<0.002	1.32	0.011	5	20	36	310
M96	2017-05-04	310	<0.15	0.072	63	3.2	650	1	<0.1	34	<0.002	1.37	<0.01	5.1	28	44	362
M96	2017-10-18	290	<0.15	0.037	62	4	590	1.5	<0.1	33	<0.002	1.59	<0.01	3.6	10	36	390
M96	2018-05-17	310	<0.15	0.044	63	3.5	610	1.3	<0.1	32	<0.002	1.63	<0.01	3.9	16	40	445
M96	2019-05-01	300	<0.15	0.036	67	3	590	1.3	<0.1	32	<0.002	1.27	<0.01	3.4	18	32	395
M96	2020-04-16	290	<0.15	0.041	60	2.2	620	1.1	<0.1	31	<0.002	0.96	<0.01	3.6	20	35	355
M96	2021-05-06	300	<0.15	0.049	66	2.5	610	1.6	<0.1	31	<0.002	0.95	<0.01	3.3	23	38	305
M99-2	2008-07-03	253	0.16		68	37	818	2.9	0.15	53		<0.1	<0.01	2.8	20	145	
M99-2	2008-11-19	244	0.3		60	36	793	2.5	1	58		<0.1	<0.01	3.4	23	142	
M99-2	2010-05-03	259	0.21		58	33	833		0.94	60		<0.1	0.04	2.6	21	150	
M99-2	2010-10-26	282	0.19	0.094	63.1	33	838	3.1	1.21	59.8	0.015	<0.1	<0.01	3	20.8	130	518
M99-2	2011-05-04	278	0.16	0.1	64	32	856	2.2	0.9	65	0.018	<0.1	0.03	2.8	21	130	538
M99-2	2011-10-25	267	0.22	0.093	66	30	837	2.5	0.98	64	0.018	<0.1	0.01	2.9	21	130	560
M99-2	2012-04-25	280	0.25	0.083	63	30	838	2.5	0.51	59	0.019	<0.1	<0.01	2.8	19	130	474
M99-2	2012-10-22	280	0.28	0.08	66	28	830	2.2	0.75	64	0.018	<0.1	<0.01	2.6	19	120	522
M99-2	2013-04-23	300	0.25	0.086	72	28	872	3	0.48	68	0.02	<0.1	<0.01	2.9	20	120	548
M99-2	2013-10-23	300	0.2	0.075	64	26	835	5	0.6	64	0.017	<0.5	<0.05	2.5	19	130	486
M99-2	2014-05-07	300	0.23	0.077	70	27	848	2.7	0.52	65	0.018	<0.1	0.012	2.5	18	120	524
M99-2	2014-10-23	300	0.16	0.072	65	27	839	2.8	0.57	63	0.016	<0.1	0.035	2.4	18	120	528
M99-2	2015-04-23	300	0.15	0.073	66	26	833	2.6	0.16	59	0.017	<0.1	<0.01	2.6	17	120	528
M99-2	2016-05-04	320	<0.15	0.07	70	23	815	2.4	0.69	59	0.015	<0.1	<0.01	2.3	16	110	458
M99-2	2017-05-02	300	<0.15	0.068	63	23	790	2.2	0.48	58	0.016	<0.1	<0.01	2.4	16	100	486
M99-2	2018-05-18	310	0.19	0.07	61	21	790	2.6	0.47	58	0.014	<0.1	<0.01	2.5	16	120	450
M99-2	2019-05-02	280	<0.15	0.082	59	22	780	2.5	0.25	59	0.017	<0.1	0.01	2.4	16	110	555
M99-2	2020-04-17	280	<0.15	0.071	57	21	750	2.3	0.38	53	0.012	<0.1	<0.01	2.2	16	100	430
M99-2	2021-05-05	290	<0.15	0.081	61	21	770	2.3	0.31	55	0.015	<0.1	<0.01	2.5	15	100	420
M101	2008-07-03	378	0.26		170	120	1250	9.7	<0.1	53		<0.1	<0.01	5.6	19	152	
M101	2008-11-19	363	0.37		150	120	1240	8.5	0.89	54		<0.1	0.06	5.9	17	147	
M101	2010-05-03	345	0.15		150	150	1300		0.34	58		0.1	0.05	6	19	140	
M101	2010-10-26	367	0.11	0.1	245	140	1320	7.3	6.28	62.6	0.23	0.2	<0.01	6	18.5	130	822
M101	2011-05-04	361	<0.15	0.12	160	130	1290	5.5	<0.1	60	0.059	<0.1	0.04	5.3	21	140	790
M101	2011-10-24	405	<0.15	0.091	160	87	1230	4.8	<0.1	56	0.032	<0.1	0.02	4.4	18	120	814
M101	2012-04-24	430	<0.15	0.087	150	73	1150	3.7	<0.1	51	0.017	<0.1	<0.01	3.7	17	81	730
M101	2012-10-22	420	0.18	0.099	150	78	1170	3.4	<0.1	54	0.022	<0.1	<0.01	4.9	18	86	720

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M101	2013-04-23	400	< 0.15	0.076	150	80	1160	3.4	< 0.1	54	0.023	< 0.1	< 0.01	4.1	19	98	698
M101	2013-10-22	430	0.17	0.063	160	78	1160	6.2	< 0.1	50	0.024	< 0.1	< 0.01	3.7	17	87	666
M101	2014-05-07	420	< 0.15	0.037	170	83	1120	3.3	< 0.1	52	0.015	< 0.1	0.022	2.7	16	77	710
M101	2014-10-22	490	< 0.15	0.069	170	83	1220	3.3	< 0.1	55	0.021	< 0.1	0.013	4.2	17	65	746
M101	2015-04-23	480	< 0.15	0.075	170	86	1220	3	< 0.1	55	0.0066	< 0.1	< 0.01	3.8	15	63	742
M101	2015-11-25	490	< 0.15	0.086	170	77	1210	2.9	< 0.1	55	0.0037	< 0.1	< 0.01	4.6	17	60	796
M101	2016-05-04	500	< 0.15	0.077	170	74	1180	2.8	< 0.1	54	0.015	< 0.1	< 0.01	4.2	17	59	674
M101	2016-10-20	520	< 0.15	0.087	160	69	1200	3.5	< 0.1	53	0.024	< 0.1	< 0.01	4.8	17	65	672
M101	2017-05-04	490	< 0.15	0.069	160	74	1200	2.3	< 0.1	53	0.011	< 0.1	< 0.01	4.1	17	65	722
M101	2017-10-18	480	< 0.15	0.054	160	75	1100	2.6	< 0.1	48	0.013	< 0.1	< 0.01	3.4	16	63	780
M101	2018-05-18	490	< 0.15	0.05	150	66	1100	2.5	< 0.1	49	0.007	< 0.1	< 0.01	3.5	16	66	715
M101	2018-10-17	480	< 0.15	0.096	150	63	1100	2.8	< 0.1	49	0.016	< 0.1	< 0.01	5	17	61	700
M101	2019-05-02	440	< 0.15	0.046	160	60	1100	2.3	< 0.1	44	0.006	< 0.1	< 0.01	3	15	61	675
M101	2019-10-30	480	< 0.15	0.057	160	49	1100	2.6	< 0.1	45	0.008	< 0.1	< 0.01	3.2	16	55	625
M101	2020-04-14	450	< 0.15	0.059	150	46	1100	2	< 0.1	46	0.002	< 0.1	< 0.01	3.3	16	57	660
M101	2020-10-27	470	< 0.15	0.077	150	49	1100	2.3	< 0.1	47	0.014	< 0.1	< 0.01	4.6	17	54	705
M101	2021-05-06	470	< 0.15	0.068	160	60	1100	2.6	< 0.1	47	0.004	< 0.1	< 0.01	4.3	17	61	600
M103	2008-07-03	740	0.24		160	160	1940	13.6	< 0.1	94		< 0.1	0.07	7.7	160	108	
M103	2008-11-19	819	0.48		140	160	1950	11.7	1.4	93		< 0.1	< 0.01	9.7	140	74	
M103	2010-05-03	828	0.31		140	150	1940		1.1	100		0.1	0.25	8.4	160	51	
M103	2010-10-26	852	0.36	0.4	145	140	1940	7.7	1.19	94.3	0.043	< 0.1	0.18	8	159	43	1190
M103	2011-05-02	829	0.2	0.25	130	140	1880	5.5	< 0.1	89	0.027	0.1	< 0.01	6.5	130	41	1130
M103	2011-10-26	805	0.28	0.45	150	120	1820	6.2	1.1	100	0.034	< 0.1	< 0.01	9.6	160	43	1290
M103	2012-04-24	800	< 0.15	0.24	140	110	1780	5.5	< 0.1	92	0.026	< 0.1	< 0.01	6.6	140	40	1040
M103	2012-10-22	770	0.29	0.35	140	130	1790	5.2	0.28	100	0.021	< 0.1	< 0.01	8.8	150	42	1020
M103	2013-04-23	750	< 0.15	0.29	140	150	1880	5	< 0.1	99	0.0079	< 0.1	< 0.01	7.7	150	48	1060
M103	2013-10-22	820	0.18	0.31	160	170	2034	5.7	0.15	100	0.034	< 0.1	< 0.01	7.6	140	45	1100
M103	2014-05-07	710	< 0.15	0.11	120	130	1690	3.4	< 0.1	73	0.0062	0.36	< 0.01	2.5	110	39	1030
M103	2014-10-22	740	< 0.15	0.26	140	140	1750	5.3	< 0.1	84	0.02	< 0.1	< 0.01	5.8	130	43	996
M103	2015-04-23	750	< 0.15	0.29	150	180	1920	4.8	< 0.1	97	0.0037	< 0.1	< 0.01	6.4	150	46	1120
M103	2015-11-24	740	< 0.15	0.32	150	170	1920	5.1	< 0.1	99	0.019	< 0.1	< 0.01	7.4	160	41	1120
M103	2016-05-04	730	< 0.15	0.25	160	200	1950	5.1	< 0.1	99	0.0034	0.22	< 0.01	6.3	130	52	1030
M103	2016-10-20	710	< 0.15	0.3	150	190	1900	5	< 0.1	99	0.016	< 0.1	< 0.01	7.9	140	59	1080
M103	2017-05-03	700	< 0.15	0.25	160	260	2200	4.8	< 0.1	110	0.003	0.35	< 0.01	6.7	150	60	1240
M103	2017-10-17	710	< 0.15	0.24	150	240	1900	4.7	< 0.1	89	0.002	0.1	< 0.01	5.6	130	68	1080
M103	2018-05-15	740	< 0.15	0.23	150	190	1900	4.3	< 0.1	93	< 0.002	0.29	< 0.01	5.6	140	56	985
M103	2018-10-17	720	< 0.15	0.28	140	150	1800	4.2	< 0.1	85	< 0.002	0.2	< 0.01	6.2	130	55	970
M103	2019-04-30	660	< 0.15	0.22	140	180	1800	4.1	< 0.1	89	< 0.002	0.31	< 0.01	5.6	140	57	1110
M103	2019-10-30	690	< 0.15	0.25	150	170	1800	4	< 0.1	88	0.008	< 0.1	< 0.01	6.5	130	53	1040
M103	2020-04-14	650	< 0.15	0.2	140	180	1800	3.6	< 0.1	87	< 0.002	0.34	< 0.01	5.5	130	53	1010
M103	2020-10-27	650	< 0.15	0.27	140	160	1700	3.6	< 0.1	85	0.003	0.19	< 0.01	6.5	130	49	915
M103	2021-05-05	600	< 0.15	0.23	120	150	1600	3.5	< 0.1	76	< 0.002	0.39	< 0.01	5.6	120	61	835
M104	2008-07-03	913	0.94		110	1000	4950	55.3	1.6	89		< 0.1	0.01	12	960	181	
M104	2008-11-19	939	1.62		86	820	4350	49.8	1.9	78		< 0.1	0.02	17	700	132	
M104	2010-05-04	1380	0.9		130	880	5070		6.5	130		0.1	0.03	12	940	66	
M104	2013-10-17						4947										
M104	2015-11-26	1300	1.26	2.8	130	810	4730	86	3.9	130	0.6	< 0.1	0.055	14	840	35	2820
M104	2016-05-04	1500	4.32	2.4	150	800	5020	110	3.1	140	0.54	< 0.1	< 0.01	14	770	37	3060
M104	2016-10-20	1500	4.98	2.3	130	740	5000	110	0.76	130	0.61	12	1.44	12	750	53	3080
M104	2017-05-03	1400	4.57	2.3	140	840	5200	72	< 0.1	140	0.31	23.9	1.18	15	880	67	3150
M104	2017-10-19	1500	3.52	2.5	140	860	5000	71	< 0.1	130	0.49	1.9	0.074	13	780	71	2820
M104	2018-05-15	1500	4.54	2.2	150	890	5200	66	1.3	150	0.5	0.12	0.057	12	830	81	2930
M104	2018-10-17	1500	5.1	2.4	140	920	5100	70	1.1	140	0.54	8.9	0.058	13	830	61	3030
M104	2019-04-30	1500	3.25	2.2	150	950	5400	73	< 0.1	160	0.41	1.89	0.03	12	860	51	3230
M104	2019-10-30	1400	6.33	2.1	170	970	5600	71	< 0.1	170	0.52	68.6	8.5	17	850	52	3260
M104	2020-04-14	930	5.3	2.2	210	1100	6900	55	< 0.1	200	0.64	274	14.9	19	1000	56	4190
M104	2020-10-27	900	1.91	2.3	190	1100	6200	51	< 0.1	190	0.8	231	0.105	16	900	64	3790
M104	2021-05-05	820	0.6	2.2	200	1100	6400	45	< 0.1	190	0.56	228	0.2	16	940	74	3390

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M114-2	2011-08-05	305	< 0.15	0.02	110	130	1050	1.5	< 0.1	16	0.006	1.2	< 0.01	1.5	93	45	684
M114-2	2011-11-17	302	< 0.15	0.027	120	140	1150	1.8	< 0.1	17	0.003	1	< 0.01	1.2	120	48	630
M114-2	2012-02-22	316	< 0.15	0.016	93	61	829	< 0.2	< 0.1	15	< 0.002	< 0.1	< 0.01	0.79	78	35	484
M114-2	2012-05-09	320	< 0.15	0.013	98	66	892	1.9	< 0.1	15	< 0.002	1.2	< 0.01	0.84	78	42	506
M114-2	2015-11-24	300	< 0.15	0.021	110	110	992	1.6	< 0.1	17	< 0.002	1.2	< 0.01	0.92	81	39	612
M114-2	2016-05-05	300	< 0.15	0.018	100	81	886	1.6	< 0.1	16	0.0064	1.2	0.011	0.77	76	40	376
M114-2	2016-10-19	460	< 0.15	0.043	130	120	1300	3.4	< 0.1	20	< 0.002	1.63	< 0.01	1.2	130	100	776
M114-2	2017-05-01	310	< 0.15	0.033	110	83	930	1.2	< 0.1	18	< 0.002	1.69	< 0.01	0.79	61	40	512
M114-2	2017-10-18	310	< 0.15	0.021	100	69	840	1.9	< 0.1	16	< 0.002	1.62	< 0.01	0.94	58	39	490
M114-2	2018-05-17	330	< 0.15	< 0.02	93	74	850	1.8	< 0.1	14	< 0.002	2.26	< 0.01	0.7	64	37	535
M114-2	2018-10-15	320	< 0.15	0.03	120	110	1000	3.2	< 0.1	19	< 0.002	1.37	< 0.01	1.1	80	41	555
M114-2	2019-05-01	310	< 0.15	< 0.02	110	83	900	1.7	< 0.1	17	< 0.002	1.42	< 0.01	0.72	70	39	550
M114-2	2019-10-29	320	< 0.15	0.021	110	93	970	2.2	< 0.1	18	< 0.002	1.63	< 0.01	0.95	70	42	545
M114-2	2020-04-09	300	< 0.15	< 0.02	99	70	860	1.6	< 0.1	16	< 0.002	1.78	< 0.01	0.75	57	34	455
M114-2	2020-10-28	320	< 0.15	0.028	120	130	1100	1.7	< 0.1	19	< 0.002	1.14	< 0.01	1.2	100	48	640
M114-2	2021-05-05	290	< 0.15	< 0.02	99	59	780	1.8	< 0.1	16	< 0.002	1.34	< 0.01	0.77	55	37	410
OW37-s	2010-10-27	132	< 0.05	0.088	39	71	514	1.5	0.42	13.8	0.3	< 0.1	< 0.01	8	35	9	326
OW37-s	2011-05-02	199	0.19	0.098	51	82	660	1.9	4.8	21	0.13	< 0.1	< 0.01	11	42	11	392
OW37-s	2011-10-24	126	< 0.15	0.078	34	49	439	1.6	0.13	13	0.25	< 0.1	< 0.01	7.5	30	2	328
OW37-s	2012-04-25	81	< 0.15	0.017	16	15	215	0.6	< 0.1	3	0.068	< 0.1	< 0.01	3	8.2	3	74
OW37-s	2012-10-22	170	0.17	0.095	38	67	558	1.4	0.14	20	0.21	< 0.1	< 0.01	9.8	43	8	274
OW37-s	2013-04-26	280	0.37	0.092	98	85	878	2.9	6.2	25	0.27	< 0.1	< 0.01	11	47	48	514
OW37-s	2013-10-24	140	< 0.15	0.08	28	46	448	1.6	< 0.1	15	0.13	< 0.1	< 0.01	8.3	36	2	230
OW37-s	2014-05-06	46	< 0.15	0.013	9.7	6	110	17	< 0.1	2.7	0.037	< 0.1	< 0.01	2.4	7.3	1	30
OW37-s	2014-10-21	150	< 0.15	0.11	28	68	525	2	< 0.1	18	0.13	< 0.1	< 0.01	9.1	42	2	256
OW37-s	2015-04-22	260	0.3	0.15	57	79	756	2.3	5.6	27	0.14	< 0.1	< 0.01	13	51	18	412
OW37-s	2015-11-25	200	< 0.15	0.1	56	47	599	1.8	< 0.1	18	0.24	< 0.1	< 0.01	9.7	36	25	310
OW37-s	2016-05-03	51	< 0.15	0.029	12	5.1	114	0.8	< 0.1	2.7	0.049	< 0.1	< 0.01	2.6	6.3	1.6	42
OW37-s	2016-10-18	150	< 0.15	0.11	30	59	470	2.1	0.53	15	0.39	< 0.1	< 0.01	9	34	< 1	260
OW37-s	2017-05-02	250	< 0.15	0.11	57	67	720	2.2	5.2	22	0.23	< 0.1	< 0.01	11	45	15	368
OW37-s	2017-10-18	210	< 0.15	0.088	35	63	610	3.2	1.7	15	0.16	< 0.1	< 0.01	8.2	34	22	320
OW37-s	2018-05-17	280	0.23	0.1	74	49	740	2.4	5.9	22	0.19	< 0.1	< 0.01	10	40	36	445
OW37-s	2018-10-17	160	< 0.15	0.084	35	38	430	3.1	0.68	14	0.26	< 0.1	< 0.01	7.7	27	4.1	165
OW37-s	2019-04-30	230	0.23	0.11	62	41	590	2.9	7.1	21	0.16	< 0.1	< 0.01	10	36	13	310
OW37-s	2019-10-29	160	< 0.15	0.094	38	35	440	5.1	0.59	13	0.32	< 0.1	< 0.01	7.4	24	3.8	240
OW37-s	2020-04-15	280	0.18	0.1	69	36	670	3.2	9.1	22	0.22	< 0.1	< 0.01	8.7	27	13	325
OW37-s	2020-10-29	190	< 0.15	0.087	44	29	460	4.5	0.45	16	0.22	< 0.1	< 0.01	7.2	21	5.6	180
OW37-s	2021-05-05	170	< 0.15	0.075	40	22	390	2.6	1.1	15	0.12	< 0.1	0.014	5.9	17	4.9	165

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
INTERMEDIATE BEDROCK GROUNDWATER FLOW ZONE																	
M5-3	1991-06-18	499	0.96	1.25	31	64	1078		0.34	17.6	ND	ND	ND	14.7	186	89	565
M5-3	1992-07-24	414	1.41			46	1050					0.3	ND			58	640
M5-3	1992-08-24			1.14	36				0.13	27	0.02			12	164		
M5-3	1993-05-13	457	1.18	0.86	34	44	981		0.34	27	0.03	ND	ND	9	142	38	580
M5-3	1994-07-06	470	1.2	0.89	24.8	42.6	1040		0.11	21.6	ND	1.1		9.41	120		
M5-3	1995-04-20	442	1.3		34	42	994		0.14	25		ND	ND	12	146	28	
M5-3	1996-04-01	432	1.45		35	40	950	1.4	0.19	25		ND	ND	12	148	23	
M5-3	1997-04-01				27				0.06	12	168				35		
M5-3	1997-05-01	441	1.31			47	981					ND	ND				25
M5-3	1998-05-08	450	1.52		32	46	1010	1.9	0.65	27		ND	ND	11	186	50	
M5-3	1999-05-12	421	1.71		35	41	938		0.08	26		ND	ND	12	152	35	
M5-3	2000-05-30	454	1.2		32	42	978	0.6	0.08	25		ND	ND	11	139	32	
M5-3	2001-05-15	437	1.39		31	44	912	5.3	0.02	25		ND	ND	12	140	30	
M5-3	2002-06-18	431	1.53		31	37	963	2	0.15	23		ND	ND	12	143	31	
M5-3	2003-05-27	432	1.48		34	42	934	< 0.5	0.07	24		< 0.1	< 0.1	12	142	28	
M5-3	2004-05-05	449	1.2		30	41	946	0.8	0.21	24		< 0.1	< 0.1	12	146	10	
M5-3	2005-05-03	455	1.14		37	42	940	< 0.5	0.14	26		< 0.1	< 0.1	12	147	22	
M5-3	2006-06-06	424	1.1	0.97	36	41	918	< 0.5	< 0.03	26	< 0.01	< 0.1	< 0.1	14	146	37	597
M5-3	2007-04-19	441	1.15	< 3	32	41	968	1.1	0.09	24	< 0.01	0.15	0.1	12	132	23	
M5-3	2008-04-29	451	1.27		35	45	973	0.5	< 0.1	27		< 0.1	< 0.01	13	150	21	
M5-3	2009-06-17	440	1.31		31	38	975	2.3	< 0.1	22		< 0.1	< 0.01	11	120	35	
M5-3	2010-05-04	432	1.14		34	41	983		< 1	27		< 0.1	< 0.01	12	150	26	
M5-3	2010-10-26	424	1.2	1.1	35	40	978	1.8	0.03	26	0.003	< 0.1	< 0.01	13	141	29	624
M5-3	2011-05-04	436	1.37	1.1	34	41	983	1	< 0.1	26	0.003	< 0.1	< 0.01	13	140	22	616
M5-3	2011-10-25	451	1.36	1.2	38	45	989	1.3	< 0.1	28	0.003	< 0.1	< 0.01	14	150	1	656
M5-3	2012-04-24	460	1.29	1.1	35	39	985	0.9	< 0.1	26	0.0035	< 0.1	< 0.01	13	140	31	536
M5-3	2012-10-22	430	1.42	1.1	36	38	982	1.4	< 0.1	26	0.0023	< 0.1	< 0.01	13	140	19	538
M5-3	2013-04-23	450	1.48	1.1	39	44	1010	2.1	< 0.1	31	0.0052	< 0.1	< 0.01	14	160	5	546
M5-3	2013-10-21	450	1.4	1.2	36	39	997	1.4	< 0.1	28	0.0032	< 0.1	< 0.01	14	150	20	556
M5-3	2014-05-06	430	1.31	1.1	37	40	958	1.3	< 0.1	25	0.0021	< 0.1	< 0.01	13	140	12	510
M5-3	2014-10-23	450	1.37	1.2	34	43	969	3.2	< 0.1	27	0.0028	< 0.1	< 0.01	13	140	9	522
M5-3	2015-04-22	460	1.3	1.2	31	40	974	1.4	< 0.1	27	0.0032	< 0.1	< 0.01	13	140	23	604
M5-3	2015-11-25	440	1.36	1.2	35	45	964	1.3	< 0.1	27	0.0022	< 0.1	< 0.01	14	150	1.1	556
M5-3	2016-05-03	450	1.28	1	33	44	949	1.3	< 0.1	25	< 0.002	< 0.1	< 0.01	12	130	1.2	526
M5-3	2016-10-20	450	1.33	1.1	33	47	970	1.6	< 0.1	27	0.003	< 0.1	< 0.01	13	140	< 1	490
M5-3	2017-05-03	460	1.26	1.1	35	46	990	0.7	< 0.1	26	< 0.002	< 0.1	< 0.01	12	140	6.6	624
M5-3	2017-10-17	470	1.28	1.2	34	43	940	1.2	< 0.1	26	< 0.002	< 0.1	< 0.01	12	140	3.8	560
M5-3	2018-05-15	480	1.41	1.2	33	39	980	1.4	< 0.1	26	0.002	< 0.1	< 0.01	12	150	14	500
M5-3	2018-10-15	470	1.5	1.2	33	46	960	1.8	< 0.1	28	< 0.002	< 0.1	< 0.01	13	140	< 1	505
M5-3	2019-04-30	440	1.38	1.2	35	42	960	1.4	< 0.1	27	< 0.002	< 0.1	< 0.01	13	150	< 1	600
M5-3	2019-10-29	450	1.42	1.1	35	49	960	0.56	< 0.1	25	0.002	< 0.1	< 0.01	13	140	< 1	570
M5-3	2020-04-14	460	1.34	1.1	36	45	980	1	0.1	27	0.002	0.1	0.01	13	140	1	525
M5-3	2020-10-27	460	1.34	1.1	34	46	980	1.4	0.1	27	0.002	0.1	0.01	13	140	1	645
M5-3	2021-05-04	460	1.33	1.1	36	48	970	1.5	0.1	26	0.002	0.1	0.01	13	140	1	555
M6-3	1991-06-25	8300	2.82			5200	36520					ND	ND			509	8754
M6-3	1991-10-25			0.3	295				0.24	ND	ND			4890	785		
M6-3	1992-07-24	4960	18.93			106	23270					ND	ND			6	7680
M6-3	1992-08-24			0.06	290				0.18	ND	ND			1750	1110		
M6-3	1993-05-13	4500	21.3	ND	610	191	20000		0.08	ND	ND	ND	ND	720	1100	7	
M6-3	1995-04-20	3685	10.9		437	125	15699		0.04	ND		ND	ND	529	770	ND	
M6-3	1996-04-01	3245	18.7		590	149	13500	8.8	0.05	ND		ND	ND	285	808	ND	
M6-3	1997-04-01				507				0.03	ND				259	713		
M6-3	1997-05-01	3170	4.35			156	13314					ND	ND			5	
M6-3	1998-05-08	2880	10.2		563	269	11300	7.6	0.02	ND		ND	ND	176	782	ND	
M6-3	1999-05-12	2670	9.67		629	350	11300		0.02	ND		ND	ND	152	734	3	
M6-3	1999-12-02	2590	10.8		591	365	11600	13.1	ND	ND		ND	ND	133	644	5	
M6-3	2000-05-30	ND	6		643	666	11600	25.2	ND	ND		ND	ND	132	594	5	



Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M6-3	2001-05-15	2250	4.95		683	778	8970	32.6	ND	ND		ND	ND	115	506	20	
M6-3	2002-06-18	3030	6		958	582	10800	38.1	ND	ND		ND	ND	187	569	15	
M6-3	2003-05-28	2220	7.63		591	634	10800	23.2	< 0.01	10		< 0.1	< 0.1	106	605	22	
M6-3	2004-05-06	2340	6.26		665	698	10800	29.9	< 0.1	< 1		< 0.1	< 0.1	134	618	26	
M6-3	2005-05-04	2220	5.73		636	755	10500	28.5	0.04	3		< 0.1	< 0.1	105	602	30	
M6-3	2006-06-06	2520	8.46	0.1	819	649	9750	24	< 0.3	3	< 0.1	< 0.1	< 0.1	124	612	4	6340
M6-3	2007-04-20	2420	8	< 0.1	825	842	11800	24.8	< 0.3	< 10	< 0.1	< 0.1	< 0.1	91	551	7	
M6-3	2008-01-05	2000	9.35		830	820	10800	30.4	< 0.5	< 0.3		< 0.1	< 0.01	93	530	30	
M6-3	2008-05-01	2000	9.35		830	820	10800	30.4	< 0.5	< 0.3		< 0.1	< 0.01	93	530	30	
M6-3	2009-06-18	2240	10.6		900	840	11600	30.2	0.19	< 0.05		< 0.1	0.02	93	550	< 1	
M6-3	2010-05-04	1950	8.16		920	960	10900		< 0.1	< 0.05		< 0.1	< 0.01	86	570	2	
M6-3	2010-10-26	1690	8.6	< 0.02	937	980	11400	30.4	< 0.2	< 0.5	< 0.002	< 0.1	< 0.01	79	509	< 1	7590
M6-3	2011-05-03	1990	6.8	0.16	840	1100	11300	30.8	< 0.1	0.16	< 0.002	< 0.1	< 0.01	65	580	< 1	7200
M6-3	2011-10-26	2450	6.89	< 0.01	1100	1000	5730	31.4	< 0.1	< 0.05	< 0.002	< 0.1	< 0.01	77	560	9	6650
M6-3	2012-04-24	1900	4.65	0.18	800	1100	11200	36.9	< 0.1	0.19	< 0.002	< 0.1	< 0.01	55	560	18	4070
M6-3	2012-10-22	2000	6.1	0.057	990	1200	11600	35	< 0.1	0.094	< 0.002	< 0.1	< 0.01	61	570	< 1	4590
M6-3	2013-04-23	2100	6.65	0.17	860	1100	11900	47.3	< 0.1	0.14	< 0.002	< 0.1	< 0.01	57	590	1	4420
M6-3	2013-10-21	1000	4.08	0.17	880	1300	8561	48	< 0.1	0.098	< 0.002	< 0.1	0.28	61	560	59	3790
M6-3	2014-05-07	1600	5.84	0.021	1100	1300	10100	39	< 0.1	< 0.05	< 0.002	< 0.1	< 0.01	59	550	36	5000
M6-3	2014-10-23	1100	4.47	0.25	720	1400	8820	45	< 0.1	0.12	< 0.002	< 0.1	< 0.01	54	600	49	4220
M6-3	2015-04-22	650	4.35	0.31	640	1400	7330	46	< 0.1	1.2	< 0.002	< 0.1	< 0.01	47	610	84	3790
M6-3	2015-11-24	1300	4.98	0.17	930	1300	9230	44	< 0.5	< 0.25	< 0.01	< 0.1	0.16	56	750	39	4300
M6-3	2016-05-03	1200	4.38	0.6	320	1400	8840	52	< 0.1	12	< 0.002	< 0.1	< 0.01	37	670	45	4150
M6-3	2016-10-20	1100	4.41	0.54	320	1400	8800	51	< 0.1	3.5	< 0.002	< 0.1	0.095	38	650	42	3780
M6-3	2017-05-04	2100	5.28	0.041	1200	1500	12000	32	< 0.1	< 0.05	0.006	< 0.1	< 0.01	55	580	< 1	4900
M6-3	2017-10-18	600	5.2	0.69	450	1500	6800	42	< 0.1	1	< 0.002	< 0.1	< 0.01	37	630	54	4480
M6-3	2018-05-15	1400	6.26	0.21	920	1400	9300	33	< 0.1	0.18	< 0.002	< 0.1	0.688	49	600	27	2860
M6-3	2018-10-15	2000	6.8	0.026	1200	1400	12000	32	< 0.1	0.077	< 0.002	< 0.1	0.025	61	580	< 1	4210
M6-3	2019-04-30	380	2.42	1.3	64	1700	5700	68	< 0.1	270	0.008	< 0.1	< 0.01	20	810	91	3910
M6-3	2019-10-29	49	2.48	1.3	62	1600	5100	54	0.88	220	0.005	< 0.1	< 0.01	20	810	91	2920
M6-3	2020-04-14	1700	5.03	0.069	1100	1500	11000	34	0.1	0.13	0.002	0.1	0.012	47	660	1	4310
M6-3	2020-10-27	1200	4.46	0.37	740	1400	9000	43	0.1	0.24	0.002	0.1	0.01	41	650	37	4120
M6-3	2021-05-04	530	1.92	1.1	770	1500	5400	46	0.5	480	0.12	0.1	0.01	51	3400	99	2780
M9-2	1991-06-17	318	0.8	0.06	115	435	1894		0.39	41	0.16	ND	ND	9.9	222	45	1038
M9-2	1992-07-27	270	0.1	0.1	100	150	1070		3.5	29	0.04	0.3	ND	5	53	43	660
M9-2	1993-05-13	229	0.1			42	718					ND	ND			31	420
M9-2	1993-05-17			0.02	57				0.23	25	ND			3	23		
M9-2	1994-07-06	350		ND	106	44.2	870		6.32	23.7	ND	ND	ND	6.15	15	32.7	
M9-2	1995-04-20	342	0.13		125	49	827		4.6	27		ND	ND	4	17	39	
M9-2	1996-04-01	333	0.15		128	43	798	3	6.38	26		ND	ND	3	9	39	
M9-2	1997-04-01				109				8.33	26				8	22		
M9-2	1997-05-01	312	0.73			47	751	3.9				ND	ND			42	
M9-2	1998-05-08	323	0.17		135	105	920	ND	4.61	27		ND	ND	4	28	36	
M9-2	1999-05-11	503	6.11		198	303	1780		5.37	43		ND	ND	16	130	ND	
M9-2	2000-05-25	339	1.95			138	1050	7.1				ND	ND			33	
M9-2	2000-05-26				158				3.47	33				10	60		
M9-2	2001-05-14	186	0.78		39	75	617	1.3	0.07	17		ND	ND	12	62	29	
M9-2	2002-06-18	240	0.86		37	58	702	1.2	0.05	23		ND	ND	12	60	32	
M9-2	2003-05-29	254	1.35		37	53	677	0.7	0.07	25		< 0.1	< 0.1	14	52	32	
M9-2	2004-05-04	262	1.18		40	54	689	0.7	0.09	26		< 0.1	< 0.1	13	55	15	
M9-2	2005-05-05	257	0.63		34	53	658	1.3	0.2	24		< 0.1	< 0.1	14	63	19	
M9-2	2006-05-31	237	0.89	0.42	35	59	678	0.8	< 0.03	22	< 0.01	< 0.1	< 0.1	12	57	27	441
M9-2	2007-04-20	308	1.27	0.59	52	94	952	3.7	0.49	35	0.03	< 0.1	< 0.1	14	79	40	
M9-2	2008-04-29	265	1.21		49	80	825	1.5	0.33	29		< 0.1	< 0.01	14	80	42	
M9-2	2009-06-15	606	0.83	0.41	170	170	1620	12.6	6.8	48	0.26	< 0.1	0.01	6.9	140	24	1020
M9-2	2010-05-05	630	0.64		180	200	1710		9.6	52		< 0.1	< 0.01	6.3	130	19	
M9-2	2011-08-04	372	0.65	0.31	220	540	2400	5.8	15	63	0.54	< 0.1	< 0.01	6.7	180	7	1770
M9-2	2011-11-15	682	1.37	2.1	9.7	260	2270	1.6	< 0.1	7.4	< 0.002	< 0.1	< 0.01	9.8	450	110	1250

Richmond Landfill - Historical Results (Groundwater Monitors)

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General and Inorganic Parameters																	
M9-2	2012-02-23	513	0.45	0.25	160	150	1440	8.8	12	41	0.49	< 0.1	0.01	5.2	97	14	788
M9-2	2012-05-09	500	0.45	0.25	140	130	1320	9.1	10	39	0.41	< 0.1	< 0.01	5	96	13	732
M9-2	2013-10-18						1615										
M9-2	2015-11-24	570	0.72	0.35	170	170	1570	9.7	11	47	0.39	< 0.1	< 0.01	6.5	130	< 1	920
M9-2	2016-05-04	460	0.63	0.27	120	89	1080	6.9	9.6	30	0.35	< 0.1	< 0.01	4.7	76	3.3	382
M9-2	2016-10-19	500	0.76	0.35	150	190	1500	7.3	11	43	0.38	< 0.1	< 0.01	6.5	110	< 1	854
M9-2	2017-05-02	470	0.62	0.24	120	93	1200	6.1	11	34	0.38	< 0.1	< 0.01	5.2	77	5	578
M9-2	2017-10-19	580	0.7	0.28	150	140	1400	7	13	41	0.41	< 0.1	< 0.01	5.9	86	< 1	720
M9-2	2018-05-18	500	0.79	0.2	120	95	1100	5.9	14	33	0.42	< 0.1	< 0.01	5.2	70	3.2	650
M9-2	2018-10-15	550	0.9	0.28	150	120	1300	6.9	14	40	0.45	< 0.1	< 0.01	5.9	83	< 1	695
M9-2	2019-05-02	570	0.55	0.35	630	2700	8900	7.5	15	430	0.77	< 0.1	0.023	140	2000	68	1490
M9-2	2019-10-30	460	0.81	0.23	120	100	1200	6.6	11	31	0.35	< 0.1	< 0.01	5.3	77	< 1	560
M9-2	2020-01-27	500	0.85	0.23	120	110	1300	6.2	10	31	0.38	< 0.1	< 0.01	5.4	77	3.6	700
M9-2	2020-04-16	450	0.8	0.21	110	89	1100	5.9	11	31	0.33	< 0.1	< 0.01	5.1	72	4.9	610
M9-2	2020-10-27	500	0.85	0.26	130	110	1200	6.4	11	36	0.33	< 0.1	< 0.01	6.3	98	< 1	695
M9-2	2021-05-06	530	0.48	1.2	5.9	200	1800	2.4	< 0.1	4.5	0.005	< 0.1	< 0.01	6.6	340	71	640
M9-3	1991-06-17	30	0.68	0.45	53	183	1072		0.15	38	ND	ND	ND	37	91	178	624
M9-3	1992-07-27	200	1.26	0.43	70	55	673		0.02	46	0.01	ND	ND	29	188	63	410
M9-3	1993-05-13	234	0.75			42	706					0.7	ND			59	420
M9-3	1993-05-17			0.36	41				0.04	30	ND			10	68		
M9-3	1994-07-06	180		0.23	22.8	420	600		ND	15.9	ND	ND	0.53	4.76	40.4	104	
M9-3	1995-04-20	198	1.1		13	34	556		0.07	12		ND	ND	15	72	40	
M9-3	1996-04-01	186	0.94		20	58	550	0.2	0.27	19		ND	ND	16	65	40	
M9-3	1997-04-01				25				0.01	17				13	63		
M9-3	1997-05-01	194	0.95			31	543	1				ND	ND				45
M9-3	1998-05-08	167	1.3		27	50	523	0.9	0.07	15		ND	ND	15	56	45	
M9-3	1999-02-12	217	1.3		31	35	567		0.05	21		ND	ND	12	53	46	
M9-3	1999-05-11	184	1.94		24	41	536		0.03	16		ND	ND	15	60	41	
M9-3	2000-05-26	254	9		36	31	617	0.9	0.05	25		ND	ND	12	52	32	
M9-3	2001-05-14	526	2.49		194	220	1540	6.2	3.87	44		ND	ND	13	64	43	
M9-3	2002-06-18	593			175				4.54	53				9	77		
M9-3	2003-05-29	689	2.17		290	277	2020	10	4.35	59		< 0.1	< 0.1	10	80	32	
M9-3	2004-05-04	652	0.33		225	209	1830	9.2	4.06	51		< 0.1	< 0.1	12	95	43	
M9-3	2005-05-05	654	1.8		200	191	1680	8.4	11.3	43		< 0.1	< 0.1	9	100	32	
M9-3	2006-05-31	656	1.1	0.25	201	207	1800	11.9	5.2	46	0.16	< 0.1	< 0.1	7	104	31	1170
M9-3	2007-04-20	608	1.16	0.27	184	169	1670	11.3	6.98	41	0.27	0.24	< 0.1	7	91	32	
M9-3	2008-04-29	588	1		170	180	1630	11.3	7.9	42		< 0.1	< 0.01	6.6	97	32	
M9-3	2009-06-15	255	1.18	0.47	37	71	761	2.6	< 0.1	26	0.012	< 0.1	< 0.01	15	73	34	490
M9-3	2010-05-05	255	1		35	68	768		0.15	25		< 0.1	< 0.01	18	84	32	
M9-3	2010-10-28	579	0.64	0.28	152	160	1520	10.5	7.08	38.2	0.26	< 0.1	< 0.01	6	102	12	948
M9-3	2011-05-02	337	0.9	0.34	61	70	891	3.6	0.52	27	0.12	< 0.1	0.04	16	87	28	504
M9-3	2011-08-04	278	1.09	0.43	51	68	783	2.6	1.2	25	0.071	< 0.1	< 0.01	13	70	25	502
M9-3	2011-10-26	270	1.01	0.53	50	70	757	1.9	0.21	29	0.03	< 0.1	< 0.01	15	70	16	394
M9-3	2011-11-15	256	1.1	0.49	46	75	753	2.1	< 0.1	29	0.024	< 0.1	< 0.01	15	70	16	364
M9-3	2012-02-23	271	0.97	0.43	44	66	760	2.8	0.21	25	0.04	< 0.1	< 0.01	14	75	26	416
M9-3	2012-04-25	280	1.07	0.49	43	65	764	2.2	0.11	25	0.029	< 0.1	< 0.01	14	70	19	386
M9-3	2012-05-09	260	1	0.47	44	71	733	1.4	< 0.1	27	0.017	< 0.1	< 0.01	13	57	7	386
M9-3	2012-10-23	250	1.72	0.52	40	69	716	1.8	< 0.1	26	0.022	< 0.1	< 0.01	14	72	15	378
M9-3	2013-04-24	290	1.21	0.49	44	76	834	2.9	0.34	26	0.033	< 0.1	< 0.01	18	80	17	446
M9-3	2013-10-22	260	1.18	0.56	43	72	747	2.5	0.12	27	0.018	< 0.1	< 0.01	15	65	11	396
M9-3	2014-05-06	270	1.18	0.84	35	69	731	1.5	0.27	23	0.024	< 0.1	< 0.01	14	77	5	358
M9-3	2014-10-23	260	1.2	0.62	33	75	748	2.9	0.1	23	0.014	< 0.1	0.01	12	77	9	376
M9-3	2015-04-24	260	1.09	0.54	43	89	777	2.6	0.11	29	0.027	< 0.1	< 0.01	15	78	8	416
M9-3	2015-11-24	250	1.2	0.61	40	96	806	9.1	0.27	26	0.029	< 0.1	< 0.01	14	85	3.1	422
M9-3	2016-05-04	310	1.08	0.5	56	87	840	2.5	1.2	28	0.081	< 0.1	< 0.01	14	70	2.4	348
M9-3	2016-10-19	270	1.24	0.55	45	110	860	2.2	0.34	29	0.04	< 0.1	< 0.01	14	82	3	466
M9-3	2017-05-02	400	0.71	0.37	76	73	970	3.7	3.9	28	0.22	< 0.1	< 0.01	14	72	7.5	544
M9-3	2017-10-19	310	1.15	0.52	54	120	930	2.2	0.83	30	0.055	< 0.1	< 0.01	14	77	2.8	420

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M9-3	2018-05-18	410	0.98	0.34	80	80	960	3.6	5.3	29	0.2	< 0.1	< 0.01	13	69	5.2	530
M9-3	2018-10-15	330	1.3	0.62	57	110	920	2.2	0.96	33	0.056	< 0.1	< 0.01	14	78	< 1	455
M9-3	2019-05-02	360	0.86	0.29	79	92	950	3.8	2.7	26	0.2	< 0.1	< 0.01	13	65	6.3	540
M9-3	2019-10-30	310	1.19	0.52	57	99	910	2.3	1	29	0.072	< 0.1	< 0.01	15	73	3.9	430
M9-3	2020-01-27	350	0.96	0.38	66	94	970	2.9	2	29	0.094	< 0.1	< 0.01	15	68	2.9	490
M9-3	2020-04-16	310	1.04	0.42	58	94	890	2.5	0.72	29	0.072	< 0.1	< 0.01	15	67	4.8	415
M9-3	2020-10-27	300	1.16	0.53	55	100	890	2.1	0.78	30	0.058	< 0.1	< 0.01	15	75	< 1	455
M9-3	2021-05-06	510	0.76	1.9	37	35	2100	2.9	0.62	28	0.047	< 0.1	< 0.01	15	370	480	1260
M52-2	1997-05-01	418	1.33		27	247	1599	3.4	0.12	14		ND	ND	10	318	77	
M52-2	1998-05-08	403	1.52			226	1600	2.3				ND	ND			54	
M52-2	1999-05-12	375	2.57		20	220	1470		ND	13		ND	ND	11	304	27	
M52-2	1999-12-02	389	1.08		24	230	1620	1.5	3.03	15		ND	ND	12	290	31	
M52-2	2000-05-24				26				0.14	16				12	296		
M52-2	2000-05-25	405	1.1			210	1470	1.8				0.13	ND			28	
M52-2	2001-05-16	392	1.68		18	241	1460	1.6	0.16	13		ND	ND	11	271	31	
M52-2	2002-06-17	395	1.46			203	1490	2.1				ND	ND			33	
M52-2	2003-05-28	399	1.59		20	248	1410	2.1	0.05	12		< 0.1	< 0.1	13	281	44	
M52-2	2004-05-05	390	1.31		18	176	1400	1.3	0.14	12		0.1	< 0.1	11	269	20	
M52-2	2005-05-03	403	1.1		17	195	1340	0.6	0.11	11		< 0.1	< 0.1	11	273	25	
M52-2	2006-05-31	413	1.3	1.29	17	187	1400	< 0.5	0.03	11	0.01	< 0.1	< 0.1	10	257	25	910
M52-2	2007-04-19	410	1.35	< 3	17	175	1480	1.1	0.05	10	< 0.01	0.28	< 0.1	9	263	52	
M52-2	2008-04-29	382	1.36		18	190	1350	0.8	< 0.1	12		< 0.1	< 0.01	11	270	23	
M52-2	2009-06-18	393	1.36		19	180	1380	2.6	< 0.1	14		< 0.1	< 0.01	12	300	15	
M52-2	2010-05-05	376	1.14		17	200	1350		< 0.1	12		< 0.1	< 0.01	11	260	20	
M52-2	2013-10-18						1001										
M52-2	2015-11-26	360	1.44	1.2	22	240	1540	1.3	0.22	16	0.006	< 0.1	< 0.01	13	310	13	736
M52-2	2016-05-06	360	1.48	1.2	22	250	1540	1.7	0.18	14	0.0054	< 0.1	< 0.01	12	280	10	780
M52-2	2016-10-20	340	1.53	1.2	24	300	1700	2.8	0.15	17	0.006	< 0.1	< 0.01	13	330	11	870
M52-2	2017-05-04	340	1.6	1.2	25	310	1800	0.7	< 0.1	19	0.002	< 0.1	< 0.01	14	320	14	904
M52-2	2017-10-18	430	1.48	1.2	25	310	1900	2	< 0.1	17	0.004	< 0.1	< 0.01	12	290	44	945
M52-2	2018-05-17	320	1.74	1.2	26	370	1800	1.6	< 0.1	18	0.005	< 0.1	< 0.01	13	310	18	1050
M52-2	2018-10-15	320	1.83	1.1	28	370	1900	3.3	< 0.1	18	0.006	< 0.1	< 0.01	13	310	12	945
M52-2	2019-05-01	300	1.68	1.1	28	390	1900	1.9	< 0.1	19	0.006	< 0.1	< 0.01	14	320	14	960
M52-2	2019-10-30	310	1.85	1.1	27	380	1900	3.1	< 0.1	19	0.004	< 0.1	< 0.01	14	360	22	935
M52-2	2020-04-16	300	1.74	1.2	29	390	2000	1	< 0.1	20	0.013	< 0.1	< 0.01	14	320	11	975
M52-2	2020-10-29	300	1.84	1.1	33	440	2100	1.4	< 0.1	23	0.005	< 0.1	< 0.01	14	350	9.7	945
M52-2	2021-05-06	280	1.91	1	35	470	2200	1.8	< 0.1	25	0.003	< 0.1	< 0.01	16	370	15	1010
M56-2	2005-11-24	234	0.4		63	37	711	2	< 0.03	40		< 0.1	< 0.1	3	11	100	
M56-2	2006-01-12	247	0.16		72	34	703	1.3	0.09	44		< 0.1	< 0.1	3	12	109	
M56-2	2006-06-08	238	0.17	0.13	74	34	651	1.9	0.6	44	0.05	< 0.1	< 0.1	3	11	101	423
M56-2	2009-06-16	271	< 0.15	0.066	71	29	745	2.9	0.16	42	0.052	< 0.1	< 0.01	3.2	12	98	480
M56-2	2010-10-27	272	0.11	0.08	80.1	25	757	1.5	0.09	46.7	0.055	< 0.1	< 0.01	3	12.8	90	482
M56-2	2011-05-02	259	< 0.15	0.065	80	25	745	1.6	< 0.1	45	0.056	< 0.1	< 0.01	3.4	13	100	436
M56-2	2011-10-25	282	< 0.15	0.074	85	23	774	1.7	< 0.1	48	0.063	< 0.1	< 0.01	3.4	13	96	476
M56-2	2012-04-25	270	< 0.15	0.068	74	24	739	1.6	< 0.1	42	0.054	< 0.1	< 0.01	3.1	12	93	440
M56-2	2012-10-23	280	0.21	0.074	74	21	754	2	< 0.1	45	0.055	< 0.1	< 0.01	3	12	93	448
M56-2	2013-04-24	290	0.18	0.062	78	21	771	1.8	< 0.1	45	0.055	< 0.1	< 0.01	3.2	12	95	472
M56-2	2013-10-24	260	< 0.15	0.069	77	20	705	1.6	< 0.1	47	0.06	< 0.1	< 0.01	3.2	13	96	484
M56-2	2014-05-08	290	0.17	0.077	82	20	758	1.5	< 0.1	46	0.055	< 0.1	< 0.01	3	12	90	424
M56-2	2014-10-23	290	< 0.15	0.072	78	20	751	1.8	< 0.1	47	0.065	< 0.1	< 0.01	3	13	89	428
M56-2	2015-04-22	290	0.17	0.079	71	19	746	1.7	< 0.1	47	0.063	< 0.1	< 0.01	3.2	13	90	460
M56-2	2016-05-05	290	< 0.15	0.059	75	18	743	1.7	< 0.1	46	0.063	< 0.1	< 0.01	2.8	12	84	378
M56-2	2017-05-02	300	< 0.15	0.064	78	17	760	1.4	< 0.1	43	0.053	< 0.1	< 0.01	3.1	12	81	434
M56-2	2018-05-17	310	< 0.15	0.053	76	16	740	2	< 0.1	42	0.055	< 0.1	< 0.01	2.9	11	79	450
M56-2	2019-05-02	300	< 0.15	0.063	74	15	730	1.9	< 0.1	41	0.059	< 0.1	< 0.01	2.8	12	78	480
M56-2	2020-04-17	300	< 0.15	0.056	75	16	730	1.5	< 0.1	43	0.063	< 0.1	< 0.01	2.8	11	75	385
M56-2	2021-05-06	310	< 0.15	0.056	78	16	730	1.8	< 0.1	42	0.059	< 0.1	< 0.01	3	11	77	330
M58-3	1998-06-24	255	ND		87	3	561		0.08	30		2	ND	3	6	49	

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M58-3	1999-12-03	282	ND		92	53	660	0.9	ND	32		1.52	ND	2	16	49	
M58-3	2000-05-29	303	0.15		70	3	610	0.6	0.02	27		1.97	ND	1	5	37	
M58-3	2001-05-16	305	0.02		79	3	615	1	0.01	32		2.43	ND	1	9	34	
M58-3	2002-06-18	298	ND		86	3	634	1.7	ND	28		1.83	ND	1	ND	35	
M58-3	2003-05-27	298	<0.02		87	6	645	1.2	<0.01	30		2.34	<0.1	1	3	42	
M58-3	2004-05-05	325	0.07		103	9	713	<0.5	0.02	31		1.48	<0.1	2	10	58	
M58-3	2005-05-03	314	0.06		94	5	636	0.8	<0.01	30		1	<0.1	2	8	45	
M58-3	2006-06-02	315	<0.02	0.02	93	5	661	1.8	<0.03	29	<0.01	0.75	<0.1	2	11	52	430
M58-3	2007-04-19	306	<0.02	0.05	93	5	659	1.1	0.06	29	<0.01	0.67	<0.1	2	10	50	
M58-3	2008-04-29	306	<0.15		94	7	647	0.7	<0.1	32		0.5	<0.01	1.6	5.8	42	
M58-3	2009-06-17	305	<0.15		79	5	629	1.7	<0.1	28		0.5	<0.01	1.4	4.5	37	
M58-3	2010-05-03	271	<0.15		88	5	595		<0.1	31		0.4	<0.01	1.8	10	42	
M58-3	2010-10-26	313	<0.05	<0.02	96.3	6	686	1.1	<0.02	31.4	<0.002	0.3	<0.01	1	5.9	48	432
M58-3	2011-05-04	299	<0.15	<0.01	89	5	645	0.8	<0.1	32	<0.002	0.3	<0.01	1.7	8.4	38	392
M58-3	2011-10-25	324	<0.15	0.017	110	9	730	1.5	<0.1	34	<0.002	0.2	<0.01	1.9	7.8	61	428
M58-3	2012-04-25	310	<0.15	0.013	85	5	649	1	<0.1	31	<0.002	0.21	<0.01	1.6	5	36	366
M58-3	2012-10-23	330	<0.15	0.015	110	10	744	2.9	<0.1	27	<0.002	0.16	<0.01	1.8	6.6	64	438
M58-3	2013-04-23	310	<0.15	<0.01	94	4	653	1.2	<0.1	34	<0.002	0.2	<0.01	1.7	5.2	38	376
M58-3	2013-10-23	310	<0.15	0.019	90	4	641	1.1	<0.1	31	<0.002	0.2	<0.01	1.5	5.7	40	356
M58-3	2014-05-06	310	<0.15	0.013	89	4	642	1	<0.1	33	<0.002	0.18	<0.01	1.7	5.4	39	312
M58-3	2014-10-22	310	<0.15	<0.01	92	5	647	1.2	<0.1	31	<0.002	0.18	<0.01	1.5	5.2	40	368
M58-3	2015-04-23	310	<0.15	0.019	92	4	654	1.2	<0.1	33	0.005	0.1	<0.01	1.8	8.7	41	370
M58-3	2016-05-05	310	<0.15	0.012	84	4	632	1.1	<0.1	31	<0.002	0.18	<0.01	1.5	5.1	38	276
M58-3	2017-05-02	320	<0.15	<0.02	84	4.1	650	0.9	<0.1	32	<0.002	0.17	<0.01	1.6	5	35	352
M58-3	2018-05-18	320	<0.15	<0.02	84	3.4	630	1.2	<0.1	32	<0.002	0.17	<0.01	1.5	4.9	37	350
M58-3	2019-05-02	310	<0.15	<0.02	85	4.1	590	1.4	<0.1	29	<0.002	0.12	<0.01	1.4	4.6	35	395
M58-3	2020-04-15	320	<0.15	<0.02	85	4	690	1.1	<0.1	31	<0.002	0.1	<0.01	1.6	6	45	345
M58-3	2021-05-05	320	<0.15	<0.02	88	4.1	660	1.6	<0.1	31	0.004	0.12	<0.01	1.7	9.1	46	325
M59-2	1998-06-23	330	0.47		106	44	785		0.12	31		ND	ND	5	28	64	
M59-2	1999-12-03	347	ND		113	50	926	5.5	0.25	33		ND	ND	5	28	52	
M59-2	2009-11-26	425	0.51	0.24	130	57	1010	8.1	<0.1	39	0.015	<0.1	<0.01	5.5	35	39	633
M59-2	2010-10-26	419	0.44	0.23	128	61	997	8.2	<0.02	36.9	0.013	<0.1	<0.01	5	34.1	38	628
M59-2	2011-05-02	413	0.47	0.21	130	61	1010	6.3	<0.1	37	0.013	<0.1	<0.01	5.4	33	39	602
M59-2	2011-10-25	418	0.45	0.23	130	60	1030	6.9	<0.1	39	0.02	<0.1	<0.01	5.6	37	39	606
M59-2	2012-04-24	420	0.43	0.22	130	60	1020	6.2	<0.1	38	0.014	<0.1	<0.01	5.6	35	46	596
M59-2	2012-10-22	410	3.41	0.22	130	61	1020	7	<0.1	38	0.017	<0.1	<0.01	5.4	34	39	590
M59-2	2013-04-23	420	0.53	0.22	130	62	1040	7.2	<0.1	40	0.014	<0.1	<0.01	5.5	34	35	604
M59-2	2013-10-22	430	0.48	0.24	130	59	1040	6.7	<0.1	37	0.015	<0.1	<0.01	5.5	34	44	608
M59-2	2014-05-07	420	0.59	0.22	130	63	1010	7.5	<0.1	35	0.014	<0.1	<0.01	5.1	34	35	624
M59-2	2014-10-23	430	0.48	0.23	130	63	1030	7.5	<0.1	37	0.013	<0.1	<0.01	5.1	34	39	602
M59-2	2015-04-22	420	0.49	0.25	120	63	1020	7.3	<0.1	38	0.014	<0.1	<0.01	5.5	35	39	618
M59-2	2016-05-06	430	0.47	0.24	130	63	975	7.8	<0.1	38	0.015	<0.1	<0.01	5.4	35	37	518
M59-2	2017-05-02	450	0.44	0.23	130	62	1100	7.5	<0.1	38	0.015	<0.1	<0.01	5.4	35	35	598
M59-2	2018-05-15	460	0.5	0.23	130	69	1000	7.2	<0.1	37	0.013	<0.1	<0.01	5	34	38	535
M59-2	2019-05-02	440	0.5	0.23	130	72	1100	7.7	<0.1	37	0.014	0.45	<0.01	5	33	36	690
M59-2	2020-04-08	440	0.46	0.25	130	69	990	7.5	<0.1	36	0.014	<0.1	<0.01	5.1	36	36	630
M59-2	2021-05-04	450	0.48	0.24	130	72	1100	7.8	<0.1	38	0.014	<0.1	<0.01	5.5	36	35	585
M59-4	1998-06-23	282	0.47		76	8	661		0.09	32		ND	ND	9	21	86	
M59-4	1999-12-03	274	ND		64	4	667	2	ND	32		ND	ND	6	21	59	
M59-4	2009-11-26	317	2.62	0.65	63	4	644	3	0.93	35	0.024	0.1	0.08	8.1	28	35	414
M59-4	2010-10-26	323	2.3	0.56	63.1	4	643	3.5	0.63	33.5	0.02	<0.1	0.01	8	23.1	23	418
M59-4	2011-05-02	294	1.38	0.5	66	5	623	2	0.79	34	0.02	0.2	0.17	7.5	21	31	368
M59-4	2011-10-25	302	1.21	0.49	61	5	622	1.9	1.2	33	0.019	<0.1	0.01	7	18	26	322
M59-4	2012-04-24	280	0.37	0.43	64	6	620	1.5	0.74	33	0.026	0.14	0.055	6.3	17	39	338
M59-4	2012-10-22	280	0.77	0.46	67	6	611	2	1.9	33	0.022	0.15	0.14	6.6	16	34	340
M59-4	2013-04-23	280	0.59	0.46	70	7	640	2.9	1.1	36	0.035	<0.1	0.031	6.3	17	53	346
M59-4	2013-10-22	300	1.09	0.43	67	7	630	2.1	1.4	33	0.019	<0.1	0.022	6.5	13	34	354
M59-4	2014-05-07	290	0.39	0.43	76	8	720	2.4	2.5	33	0.023	0.14	0.044	5.9	27	86	400

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M59-4	2014-10-23	290	0.41	0.43	68	8	647	2.6	1.7	34	0.017	< 0.1	0.047	5.9	23	54	376
M59-4	2015-04-22	270	0.2	0.45	63	8	645	2.1	0.54	34	0.037	< 0.1	0.062	5.9	18	61	400
M59-4	2016-05-06	260	0.28	0.44	65	8.2	611	2.7	0.65	33	0.011	< 0.1	0.015	5.6	15	56	278
M59-4	2017-05-02	280	0.18	0.44	66	8.7	640	1.2	0.58	33	0.013	< 0.1	< 0.01	5.8	14	49	338
M59-4	2018-05-15	280	0.33	0.41	69	8.1	610	1.9	0.42	33	0.012	< 0.1	< 0.01	5.5	19	45	295
M59-4	2019-05-02	270	0.16	0.4	66	8.8	640	1.9	0.49	31	0.033	< 0.1	0.017	5.3	14	61	410
M59-4	2020-04-08	270	< 0.15	0.43	70	8.9	660	1.5	0.16	33	0.008	< 0.1	< 0.01	5.6	22	84	410
M59-4	2021-05-04	270	< 0.15	0.47	74	9.9	680	1.9	0.14	35	0.009	< 0.1	< 0.01	5.9	19	80	375
M60-1	2020-01-31	220	0.89	0.83	64	230	1600	2.2	< 0.1	14	0.029	< 0.1	< 0.01	12	240	180	855
M64-2	1998-06-23	275	1		48	76	777		0.06	26		ND	ND	9	80	73	
M64-2	1999-11-30	308	0.75		41	41	818	1	0.12	22		ND	ND	8	98	52	
M64-2	2009-06-15	321	0.97	0.9	44	70	832	2.1	< 0.1	27	0.007	< 0.1	< 0.01	9.3	84	37	520
M64-2	2013-06-20	300	1.09	1	47	90	1177	1.3	< 0.1	28	0.0089	< 0.1	< 0.01	9.5	100	14	484
M64-2	2014-09-05	320	1.08	0.95	51	110	875	0.9	< 0.1	28	0.0071	< 0.1	< 0.01	9	91	4	512
M64-2	2014-11-04	300															
M64-2	2015-11-26	290	0.94	1	53	110	962	0.9	< 0.1	30	0.0085	< 0.1	< 0.01	10	95	1.2	520
M64-2	2016-05-06	280	1.02	0.96	53	120	957	1.2	< 0.1	30	0.0081	< 0.1	< 0.01	10	92	3.4	392
M64-2	2016-10-20	300	1.02	0.97	51	110	950	1.7	< 0.1	31	0.008	< 0.1	< 0.01	10	97	23	486
M64-2	2017-05-03	310	1.01	0.95	54	120	970	1	< 0.1	31	0.008	< 0.1	< 0.01	10	95	2.9	558
M64-2	2017-10-17	320	1.04	0.97	49	120	900	1.5	< 0.1	29	0.007	< 0.1	< 0.01	9.5	88	1.7	445
M64-2	2018-05-18	310	1.14	0.94	50	110	920	1.2	< 0.1	31	0.007	< 0.1	< 0.01	10	91	9.8	480
M64-2	2018-10-16	310	1.09	0.97	52	120	950	2.1	< 0.1	29	0.007	< 0.1	< 0.01	10	89	< 1	475
M64-2	2019-05-01	300	1.08	1	54	140	970	1.8	< 0.1	33	0.008	< 0.1	< 0.01	10	95	3.3	540
M64-2	2019-10-30	300	1.09	0.85	55	130	970	1.9	< 0.1	30	0.007	< 0.1	< 0.01	9.9	91	10	480
M64-2	2020-04-08	300	1.03	1	53	130	990	1.3	< 0.1	30	0.006	< 0.1	< 0.01	9.7	92	6	485
M64-2	2020-10-29	310	0.98	0.96	55	140	990	1.2	< 0.1	31	0.007	< 0.1	< 0.01	9.8	92	1.7	485
M64-2	2021-05-05	290	1.04	0.94	54	120	950	1.9	< 0.1	30	0.007	< 0.1	< 0.01	9.7	89	18	490
M70-2	2017-05-01	390	2.84	1.5	71	640	2800	2	4.5	58	0.031	< 0.1	0.011	18	510	< 1	1280
M70-2	2017-10-18	400	1.84	1.3	49	480	2200	1.9	0.86	34	0.014	< 0.1	< 0.01	14	370	22	1210
M70-2	2018-05-15	400	2.29	1.3	48	470	2300	2	1.3	34	0.016	< 0.1	< 0.01	14	380	24	1120
M70-2	2018-10-15	410	2.04	1.4	45	470	2200	2.2	0.92	33	0.016	< 0.1	< 0.01	13	370	14	1140
M70-2	2019-05-01	380	1.96	1.4	48	480	2300	2.3	0.83	34	0.015	< 0.1	< 0.01	13	370	19	1270
M70-2	2019-10-29	390	1.93	1.2	44	430	2200	2	0.4	30	0.011	< 0.1	< 0.01	13	370	7.8	1120
M70-2	2020-04-09	500	1.84	1.5	43	400	2200	2.4	0.89	28	0.013	< 0.1	< 0.01	13	380	16	1290
M70-2	2020-10-29	550	1.79	1.5	44	400	2300	2.7	0.89	31	0.013	< 0.1	< 0.01	13	410	2.4	1140
M70-2	2021-05-05	590	1.85	1.5	45	410	2300	2.9	0.69	31	0.014	< 0.1	< 0.01	13	430	9.9	1220
M72	2000-08-24	232	0.54		53	16	492	1.3	ND	29		ND	ND	8	12	53	
M72	2006-06-05	262	0.35	0.34	53	27	636	1.3	0.12	30	0.01	< 0.1	< 0.1	10	25	39	413
M72	2010-10-28	255	0.46	0.37	55.1	22	605	1.6	< 0.02	32.1	< 0.002	< 0.1	< 0.01	8	17.6	32	384
M72	2011-05-02	257	0.56	0.35	57	27	638	1.2	< 0.1	34	0.002	< 0.1	< 0.01	7.8	17	39	366
M72	2011-10-24	264	0.49	0.4	54	31	616	1.3	< 0.1	31	0.003	< 0.1	< 0.01	7.7	17	17	478
M72	2012-04-25	270	0.52	0.34	55	26	622	1.4	< 0.1	32	0.003	< 0.1	< 0.01	7.9	17	37	332
M72	2012-10-23	270	0.62	0.38	54	31	604	1.1	< 0.1	33	0.0027	< 0.1	< 0.01	7.3	17	15	332
M72	2013-04-25	250	0.61	0.37	56	39	638	2	< 0.1	32	0.0026	< 0.1	< 0.01	7.2	16	27	364
M72	2013-10-23	280	0.58	0.39	57	29	616	1.7	< 0.1	35	0.0034	< 0.1	< 0.01	8.1	19	19	328
M72	2014-05-07	270	0.57	0.38	60	34	633	2.8	< 0.1	33	0.0026	< 0.1	< 0.01	7.4	18	29	354
M72	2014-10-22	260	0.6	0.41	56	31	614	1.8	< 0.1	34	0.0028	< 0.1	< 0.01	7.4	19	22	324
M72	2015-04-22	270	0.55	0.46	55	25	629	1.7	< 0.1	36	0.0027	< 0.1	< 0.01	8.2	19	45	366
M72	2015-11-24	270	0.55	0.41	58	32	631	1.4	< 0.1	35	0.0029	< 0.1	< 0.01	8	18	27	354
M72	2016-05-03	270	0.55	0.34	57	32	631	1.7	< 0.1	35	0.003	< 0.1	< 0.01	7.3	15	35	62
M72	2016-10-18	280	0.58	0.4	55	30	620	1.4	< 0.1	35	0.003	< 0.1	< 0.01	7.8	18	21	354
M72	2017-05-02	280	0.52	0.4	58	29	670	1.4	< 0.1	35	0.003	< 0.1	< 0.01	7.9	18	42	362
M72	2017-10-19	280	0.53	0.4	53	31	630	1.7	< 0.1	32	0.002	< 0.1	< 0.01	7.2	16	24	290
M72	2018-05-18	290	0.61	0.38	56	28	630	1.6	< 0.1	35	0.002	< 0.1	< 0.01	7.6	17	31	305
M72	2018-10-17	280	0.62	0.45	57	31	620	1.5	< 0.1	34	0.003	< 0.1	< 0.01	7.8	19	26	280
M72	2019-05-02	270	0.7	0.42	59	27	630	2	< 0.1	34	0.003	< 0.1	< 0.01	7.7	17	29	390
M72	2019-10-30	270	0.63	0.37	58	23	640	0.79	< 0.1	33	0.002	< 0.1	< 0.01	7.4	19	33	320
M72	2020-04-16	260	0.53	0.37	58	29	660	1.4	< 0.1	35	0.003	< 0.1	< 0.01	7.2	15	38	325

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M72	2020-10-27	290	0.54	0.42	57	27	640	1.5	< 0.1	34	0.004	< 0.1	< 0.01	7.6	19	26	435
M72	2021-05-06	280	0.56	0.38	60	29	660	2.3	< 0.1	36	0.002	< 0.1	< 0.01	7.7	18	36	345
M74	2000-08-24	250	1.16		35	7	515	0.5	0.11	22		ND	ND	11	54	20	
M74	2004-11-12	305	0.8	0.92	35	14	659	0.8	0.3	23	0.01	< 0.1	< 0.1	12	73	30	
M74	2005-05-02	300	0.82	1.04	36	8	616	0.7	0.09	25	< 0.01	< 0.1	< 0.1	11	60	27	
M74	2006-06-06	308	0.91	0.88	34	5	602	< 0.5	0.09	23	< 0.01	< 0.1	< 0.1	11	57	22	391
M74	2007-04-23	297	0.82	0.97	34	6	624	0.8	< 0.03	23	< 0.01	< 0.1	< 0.1	10	58	18	
M74	2010-10-28	298	1.2	0.93	33.4	17	670	2.3	0.15	22	0.01	< 0.1	0.01	12	72.5	30	428
M74	2011-05-02	297	1.02	0.91	34	13	657	0.8	0.1	23	0.008	< 0.1	0.02	11	72	32	386
M74	2011-10-24	300	0.98	0.99	35	8	623	0.9	< 0.1	24	0.007	< 0.1	< 0.01	11	62	18	428
M74	2012-04-25	300	1.16	0.88	35	18	691	1.1	< 0.1	20	0.019	< 0.1	< 0.01	13	77	40	350
M74	2012-10-23	300	1.05	0.96	34	13	648	1.3	< 0.1	23	0.021	< 0.1	< 0.01	11	69	28	346
M74	2013-04-25	300	1.7	0.93	27	26	729	3	< 0.1	17	0.013	< 0.1	< 0.01	15	100	44	434
M74	2013-10-23	310	1.16	0.95	35	13	652	1.3	< 0.1	23	0.027	< 0.1	< 0.01	12	77	26	382
M74	2014-05-07	300	1.27	0.97	39	39	826	3.1	< 0.1	23	0.019	< 0.1	< 0.01	13	97	68	482
M74	2014-10-22	310	1.25	0.95	37	32	761	1.6	< 0.1	23	0.02	< 0.1	< 0.01	12	91	48	408
M74	2015-04-23	330	1.95	0.95	37	59	970	1.9	< 0.1	22	0.026	< 0.1	< 0.01	15	130	80	548
M74	2015-11-24	370	3.47	1.1	31	43	943	1.9	< 0.1	18	0.032	< 0.1	< 0.01	16	130	54	662
M74	2016-05-03	380	1.85	0.95	31	31	830	2.3	< 0.1	17	0.038	< 0.1	< 0.01	16	150	28	452
M74	2016-10-18	380	2.65	0.95	29	23	790	1.7	< 0.1	18	0.042	< 0.1	< 0.01	14	110	20	450
M74	2017-05-02	360	1.86	0.94	30	20	760	2.1	0.17	17	0.044	< 0.1	< 0.01	14	110	18	400
M74	2017-10-19	340	1.82	0.91	30	16	680	1.5	0.26	16	0.047	< 0.1	< 0.01	12	85	15	345
M74	2018-05-18	340	1.2	0.8	29	24	710	2.4	0.13	18	0.039	< 0.5	< 0.05	12	92	14	385
M74	2018-10-17	320	1.22	0.91	28	16	640	2.8	0.64	15	0.063	< 0.1	< 0.01	13	93	10	340
M74	2019-05-02	310	1.29	0.79	29	25	670	2.9	0.12	16	0.032	< 0.1	0.017	11	87	8.8	410
M74	2019-10-30	300	1.17	0.83	33	11	610	1.8	< 0.1	21	0.022	< 0.1	< 0.01	11	65	21	345
M74	2020-04-16	310	1.28	0.8	30	25	660	2.4	< 0.1	18	0.03	< 0.1	< 0.01	12	77	5.9	385
M74	2020-10-27	310	1.24	0.88	34	15	640	1.6	< 0.1	22	0.028	< 0.1	< 0.01	12	68	17	455
M74	2021-05-06	320	1.62	0.62	43	45	750	3.9	0.17	24	0.039	< 0.1	< 0.01	14	72	5.1	360
M75	2000-08-17	409	1.69		34	48	849	0.4	0.08	20		ND	ND	15	147	48	
M75	2006-06-08	415	1.46	1.13	32	79	766	1	< 0.03	22	< 0.01	< 0.1	< 0.1	13	166	42	498
M75	2010-10-28	506	2.9	1.3	29.5	96	1260	12	0.77	18	0.025	< 0.1	0.03	18	202	75	798
M75	2011-05-03	420	2.27	1.3	31	85	1210	0.6	< 0.1	21	0.013	< 0.1	0.02	17	200	70	734
M75	2011-10-24	465	< 0.15	1.3	24	140	1400	1.6	< 0.1	15	0.025	< 0.1	< 0.01	21	240	100	924
M75	2012-04-25	480	2.69	1.2	31	82	1180	3.3	< 0.1	19	0.016	< 0.1	< 0.01	17	200	43	644
M75	2012-10-23	440	2.14	1.4	31	82	1170	4.5	< 0.1	22	0.016	< 0.1	< 0.01	17	200	55	634
M75	2013-04-25	440	2.43	1.2	34	73	1130	1.7	< 0.1	23	0.011	< 0.1	< 0.01	15	170	50	646
M75	2013-10-21	440	2.02	1.4	32	80	1200	1.4	< 0.1	21	0.019	< 0.1	0.01	17	190	83	698
M75	2014-05-07	460	2.08	1.2	37	76	1130	5.1	< 0.1	22	0.022	< 0.1	< 0.01	16	180	34	664
M75	2014-10-22	410	1.64	1.3	35	76	1180	2.3	< 0.1	23	0.008	< 0.1	< 0.01	15	180	93	682
M75	2015-04-23	420	1.49	1.2	35	63	1120	1.4	< 0.1	24	0.011	< 0.1	< 0.01	15	170	80	636
M75	2015-11-24	430	1.56	1.3	36	59	1130	1.3	< 0.1	25	0.0099	< 0.1	< 0.01	17	180	75	708
M75	2016-05-04	450	3.28	1.2	33	73	1130	1.6	< 0.1	24	0.0071	< 0.1	0.026	14	170	39	460
M75	2016-10-20	460	1.42	1.3	34	62	1100	1.4	< 0.1	26	0.005	< 0.1	0.012	16	180	41	622
M75	2017-05-02	460	2.3	1.2	32	54	1100	2.7	< 0.1	22	0.018	< 0.1	< 0.01	16	180	36	548
M75	2017-10-16	440	1.3	0.99	40	65	960	1.9	< 0.1	22	0.075	< 0.1	< 0.01	12	130	25	485
M75	2018-05-15	420	1.36	0.64	43	31	880	2.6	0.42	27	0.044	< 0.1	< 0.01	13	100	28	480
M75	2018-10-17	440	1.47	1.3	37	49	1000	1.6	< 0.1	25	0.014	< 0.1	< 0.01	15	150	44	595
M75	2019-04-30	390	1.43	0.69	54	44	940	2.9	0.11	28	0.067	< 0.1	< 0.01	12	110	42	550
M75	2019-10-29	370	1.5	1	42	47	960	2.6	< 0.1	25	0.032	< 0.1	< 0.01	13	140	60	550
M80-1	2004-11-12	164	0.47	0.34	27	5	361	0.6	0.32	13	0.01	< 0.1	< 0.1	5	30	16	
M80-1	2005-05-02	173	0.24	0.36	25	5	364	0.5	0.05	13	< 0.01	< 0.1	< 0.1	4	30	41	
M80-1	2006-06-06	168	0.37	0.3	24	4	371	1.2	0.05	13	< 0.01	< 0.1	< 0.1	5	31	17	241
M80-1	2007-04-23	172	0.39	0.35	24	5	386	0.8	0.04	13	< 0.01	< 0.1	< 0.1	5	32	11	
M80-1	2009-06-16	181	0.42	0.38	24	6	401	2.1	< 0.1	13	0.004	< 0.1	< 0.01	4.9	39	33	250
M80-1	2010-10-26	187	0.44	0.4	27.1	9	406	1.4	< 0.02	12.8	0.009	< 0.1	< 0.01	5	44.2	38	280
M80-1	2011-05-03	139	0.41	0.36	24	8	377	0.8	< 0.1	13	0.004	< 0.1	< 0.01	4.7	36	37	240
M80-1	2011-08-04	156	0.37	0.39	22	16	352	0.7	< 0.1	12	0.005	< 0.1	< 0.01	4.6	31	8	264

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M80-1	2011-10-24	132	0.37	0.38	23	8	369	0.9	< 0.1	13	0.005	< 0.1	< 0.01	4.8	34	23	222
M80-1	2011-11-16	129	0.36	0.37	23	22	363	1.4	< 0.1	14	0.005	< 0.1	< 0.01	4.9	36	15	196
M80-1	2012-02-23	125	0.34	0.37	22	9	352	0.4	< 0.1	13	0.0045	< 0.1	< 0.01	4.4	32	38	204
M80-1	2012-04-24	140	0.35	0.36	22	9	366	0.7	< 0.1	13	0.0049	< 0.1	< 0.01	4.4	32	37	206
M80-1	2012-05-09	140	0.43	0.36	22	21	366	0.9	< 0.1	13	0.0049	< 0.1	< 0.01	4.5	32	16	206
M80-1	2012-10-22	140	0.48	0.36	22	7	359	0.8	< 0.1	13	0.0049	< 0.1	< 0.01	4.5	32	32	192
M80-1	2013-04-24	160	0.48	0.37	22	11	410	1.2	< 0.1	12	0.0044	< 0.1	< 0.01	4.4	32	31	208
M80-1	2013-10-23	140	0.4	0.36	22	22	362	0.8	< 0.1	13	0.0057	< 0.1	< 0.01	4.6	34	1	186
M80-1	2014-05-07	140	0.47	0.36	23	21	362	1	< 0.1	12	0.005	< 0.1	< 0.01	4.3	34	11	208
M80-1	2014-10-22	130	0.45	0.38	22	28	379	1.9	< 0.1	12	0.0044	< 0.1	< 0.01	4.4	39	10	212
M80-1	2015-04-24	130	0.42	0.37	23	28	381	1.3	< 0.1	14	0.0049	< 0.1	< 0.01	4.6	38	15	206
M80-1	2015-11-23	150	0.44	0.41	23	28	382	0.9	< 0.1	13	0.0048	< 0.1	< 0.01	4.7	37	12	204
M80-1	2016-05-04	150	0.4	0.39	22	16	347	1.1	< 0.1	12	0.0045	< 0.1	< 0.01	4.2	32	16	116
M80-1	2016-10-19	150	0.39	0.39	22	30	380	1.2	< 0.1	13	0.005	< 0.1	< 0.01	4.6	37	11	212
M80-1	2017-05-02	160	0.36	0.4	22	7.1	370	0.8	< 0.1	13	0.005	< 0.1	0.01	4.7	35	37	198
M80-1	2017-10-17	160	0.39	0.36	20	24	350	1	< 0.1	12	0.004	< 0.1	< 0.01	4.2	34	13	235
M80-1	2018-05-17	170	0.42	0.35	20	9.3	360	1.1	< 0.1	11	0.004	< 0.1	< 0.01	4.3	32	24	280
M80-1	2018-10-15	170	0.5	0.41	21	25	360	1.3	< 0.1	12	0.005	< 0.1	< 0.01	4.6	36	2.1	175
M80-1	2019-05-01	140	0.41	0.41	21	15	360	1.3	< 0.1	12	0.004	< 0.1	< 0.01	4.4	34	16	195
M80-1	2019-10-29	160	0.42	0.39	20	26	360	1.8	< 0.1	11	0.004	< 0.1	< 0.01	4.3	34	6.8	225
M80-1	2020-04-17	160	0.43	0.38	21	16	370	0.9	< 0.1	12	0.004	< 0.1	< 0.01	4.3	37	15	170
M80-1	2020-10-27	160	0.42	0.39	21	24	370	1.1	< 0.1	12	0.004	< 0.1	< 0.01	4.5	38	8	265
M80-1	2021-05-04	160	0.38	0.39	21	23	360	1	< 0.1	12	0.004	< 0.1	< 0.01	4.4	35	13	165
M82-1	2004-11-12	342	0.74	0.62	118	41	1050	4.7	1.59	27	0.2	< 0.1	< 0.1	10	75	156	
M82-1	2005-05-02	339	1.02	1.05	69	43	879	3.6	3.56	27	0.03	< 0.1	< 0.1	11	94	77	
M82-1	2006-06-06	362	0.97	1.05	50	47	882	3.4	0.06	24	< 0.01	< 0.1	< 0.1	12	97	47	573
M82-1	2007-04-23	353	0.85	1.01	54	48	917	3.3	0.29	27	0.01	< 0.1	< 0.1	11	94	58	
M82-1	2010-10-27	316	0.84	1.1	48	45	862	2.2	0.09	26.9	< 0.002	< 0.1	< 0.01	10	94.7	55	542
M82-1	2011-05-02	317	0.95	0.98	53	45	896	2.2	< 0.1	27	0.003	< 0.1	< 0.01	11	97	69	530
M82-1	2011-10-24	330	1.12	1	51	44	903	2.9	< 0.1	27	0.004	< 0.1	< 0.01	10	94	61	622
M82-1	2012-04-25	340	0.77	0.91	58	46	928	2.6	0.48	27	0.0075	< 0.1	< 0.01	10	94	76	514
M82-1	2012-10-22	320	0.87	0.97	59	44	916	3.1	0.18	28	0.0066	< 0.1	< 0.01	10	97	67	518
M82-1	2013-04-24	350	0.87	0.96	49	45	961	2.7	0.12	23	0.0047	< 0.1	< 0.01	10	120	72	520
M82-1	2013-06-20						1312										
M82-1	2013-10-22	330	0.81	0.98	52	43	882	2.5	< 0.1	25	0.0028	< 0.1	< 0.01	9.9	96	53	504
M82-1	2014-05-07	330	1.04	1	51	46	883	4	< 0.1	25	0.0024	< 0.1	< 0.01	10	99	59	514
M82-1	2014-10-22	330	0.99	1	50	45	866	2.8	< 0.1	27	< 0.002	< 0.1	< 0.01	9.5	93	58	492
M82-1	2015-04-22	330	1.09	1.1	46	46	878	2.6	< 0.1	28	0.0027	< 0.1	0.014	11	99	60	512
M82-1	2015-11-23	330	0.98	1.1	53	44	901	2.5	< 0.1	27	0.0054	< 0.1	< 0.01	10	100	63	502
M82-1	2016-05-05	320	0.79	0.91	52	43	890	2.5	< 0.1	26	0.005	< 0.1	< 0.01	9.7	91	72	490
M82-1	2016-10-18	330	0.86	0.98	49	44	880	2.5	< 0.1	27	0.004	< 0.1	< 0.01	10	97	67	498
M82-1	2017-05-03	330	0.97	0.98	47	45	890	2.3	< 0.1	26	0.004	< 0.1	< 0.01	10	92	49	578
M82-1	2017-10-18	330	0.81	1	50	43	860	2.7	< 0.1	27	0.004	< 0.1	< 0.01	10	90	67	535
M82-1	2018-05-16	340	1.13	0.99	49	40	850	3.5	< 0.1	27	0.003	< 0.1	< 0.01	11	92	54	435
M82-1	2018-10-17	340	0.92	0.99	60	42	930	2.6	< 0.1	29	0.012	< 0.1	< 0.01	11	92	86	485
M82-1	2019-04-30	330	1.04	0.92	51	39	850	2.6	< 0.1	28	0.003	< 0.1	< 0.01	10	86	48	490
M82-1	2019-10-30	320	1.04	0.81	52	41	870	3.4	< 0.1	28	0.003	< 0.1	< 0.01	10	85	64	460
M82-1	2020-04-08	340	1.08	0.99	50	43	840	2.5	< 0.1	29	0.002	< 0.1	< 0.01	10	85	44	470
M82-1	2020-10-29	340	0.96	0.93	51	40	870	2.4	< 0.1	28	0.003	< 0.1	< 0.01	10	90	50	350
M82-1	2021-05-05	330	0.99	0.87	51	41	840	2.3	< 0.1	28	0.003	< 0.1	< 0.01	10	86	59	430
M82-2	2004-11-12	326	0.35	0.19	108	32	813	2.8	0.3	30	0.02	< 0.1	< 0.1	5	22	70	
M82-2	2005-05-02	332	0.35	0.24	115	35	785	2.9	0.01	32	0.02	< 0.1	< 0.1	5	23	63	
M82-2	2006-06-05	332	0.25	0.2	106	27	791	2.9	< 0.03	29	0.02	< 0.1	< 0.1	4	19	74	514
M82-2	2007-04-23	337	0.35	0.16	107	30	883	3.3	< 0.03	29	0.02	< 0.1	< 0.1	4	20	69	
M82-2	2010-10-27	328	0.25	0.19	111	35	829	2.9	< 0.02	29.7	0.019	< 0.1	< 0.01	4	22.8	63	528
M82-2	2011-05-02	328	0.27	0.13	95	28	819	2.6	< 0.1	25	0.015	< 0.1	< 0.01	3.5	17	67	488
M82-2	2011-10-24	323	0.23	0.17	110	33	820	3.2	< 0.1	30	0.019	< 0.1	< 0.01	4.4	23	64	514
M82-2	2012-04-25	330	0.19	0.12	110	21	779	2.1	< 0.1	28	0.017	< 0.1	< 0.01	3.8	16	67	442

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M82-2	2012-10-22	320	0.39	0.15	110	32	816	3.7	< 0.1	28	0.019	< 0.1	< 0.01	4.1	21	65	484
M82-2	2013-04-24	330	0.33	0.15	100	25	818	2.9	< 0.1	30	0.019	< 0.1	< 0.01	3.7	19	69	500
M82-2	2013-10-22	330	0.27	0.16	110	21	809	2.3	< 0.1	30	0.019	< 0.1	< 0.01	4.1	18	69	482
M82-2	2014-05-07	330	0.31	0.14	110	25	800	2.9	< 0.1	29	0.019	< 0.1	< 0.01	3.7	19	69	496
M82-2	2014-10-22	340	0.29	0.16	110	26	807	3	< 0.1	31	0.018	< 0.1	< 0.01	3.9	20	68	460
M82-2	2015-04-22	330	0.28	0.17	100	24	795	2.5	< 0.1	31	0.019	< 0.1	< 0.01	4	19	66	500
M82-2	2015-09-30	320	0.26	0.12	110	23	795	2.9	< 0.1	28	0.02	< 0.1	< 0.01	4	18	66	478
M82-2	2015-10-22	330	0.28	0.16	100	30	816	2.7	< 0.1	29	0.019	< 0.1	< 0.01	3.9	20	72	504
M82-2	2015-11-03	330	0.27	0.18	110	32	841	3	< 0.1	30	0.019	< 0.1	< 0.01	4.2	22	67	510
M82-2	2015-11-23	330	0.3	0.18	110	30	833	2.8	< 0.1	30	0.017	< 0.1	< 0.01	4.2	21	67	492
M82-2	2016-05-05	330	0.24	0.15	100	21	765	2.6	< 0.1	29	0.019	< 0.1	< 0.01	3.8	18	58	428
M82-2	2016-10-18	340	0.24	0.16	100	26	800	3	< 0.1	30	0.019	< 0.1	< 0.01	3.9	19	66	472
M82-2	2017-05-03	330	0.2	0.14	100	24	790	2.4	< 0.1	30	0.018	< 0.1	< 0.01	3.8	17	63	500
M82-2	2017-10-18	340	0.24	0.12	98	20	740	2.3	< 0.1	27	0.018	< 0.1	< 0.01	3.5	14	59	460
M82-2	2018-05-16	340	0.24	0.13	100	18	750	2.4	< 0.1	29	0.017	< 0.1	< 0.01	3.6	16	56	390
M82-2	2018-10-17	330	0.28	0.15	100	20	760	3.3	< 0.1	28	0.021	< 0.1	< 0.01	3.8	16	58	385
M82-2	2019-04-30	330	0.26	0.14	110	21	760	2.7	< 0.1	30	0.018	< 0.1	< 0.01	3.7	17	55	475
M82-2	2019-10-30	330	0.25	0.14	100	25	800	2.6	< 0.1	28	0.023	< 0.1	< 0.01	3.8	18	53	430
M82-2	2020-04-08	320	0.19	0.13	99	21	710	2.2	< 0.1	28	0.017	< 0.1	< 0.01	3.5	15	50	465
M82-2	2020-10-29	340	0.25	0.16	110	27	790	3	< 0.1	29	0.019	< 0.1	< 0.01	3.8	19	48	395
M82-2	2021-05-05	330	0.2	0.15	100	23	760	2.4	< 0.1	28	0.018	< 0.1	< 0.01	3.7	16	54	415
M91-1	2006-11-28	336	2.94	0.35	65	52	1070	2.8	0.03	17	0.07	< 0.1	< 0.1	19	123	129	696
M91-1	2010-10-26	275	0.47	0.53	50	25	722	2.4	0.84	24.4	0.007	0.5	< 0.01	9	59.4	63	462
M91-1	2011-05-04	287	0.98	0.77	48	18	703	1	0.5	22	0.009	< 0.1	< 0.01	8.4	68	55	416
M91-1	2011-10-25	288	0.61	0.82	49	15	658	1.1	0.14	25	0.007	< 0.1	< 0.01	8.2	68	39	392
M91-1	2012-04-25	290	0.67	0.73	46	19	702	1.2	0.11	22	0.0088	< 0.1	< 0.01	8	67	52	354
M91-1	2012-10-22	290	0.78	0.78	46	15	669	1.1	< 0.1	23	0.0057	< 0.1	< 0.01	7.6	62	40	318
M91-1	2013-04-23	290	0.83	0.77	46	16	702	1.7	< 0.1	23	0.0066	< 0.1	< 0.01	8.3	70	46	400
M91-1	2013-10-23	300	0.72	0.78	45	14	675	1.3	< 0.1	24	0.0055	< 0.1	< 0.01	7.6	66	44	308
M91-1	2014-05-07	290	0.75	0.81	46	13	666	1.3	< 0.1	22	0.0053	< 0.1	< 0.01	7	64	48	388
M91-1	2014-10-22	300	0.76	0.86	44	14	671	2.1	0.21	23	0.0066	< 0.1	< 0.01	7.3	66	42	382
M91-1	2015-04-23	270	0.69	0.8	44	12	658	1.2	< 0.1	23	0.0056	< 0.1	< 0.01	7.4	60	54	384
M91-1	2016-05-05	290	0.87	0.78	43	14	674	1.1	< 0.1	23	0.0069	< 0.1	< 0.01	7.3	64	46	314
M91-1	2017-05-02	290	0.68	0.85	42	14	690	1.8	0.14	22	0.006	< 0.1	< 0.01	7.6	65	49	382
M91-1	2018-05-18	290	0.72	0.78	41	13	670	1.3	0.23	22	0.005	< 0.1	< 0.01	7.2	62	54	395
M91-1	2019-05-02	280	0.65	0.85	44	11	660	1.6	< 0.1	22	0.004	< 0.1	< 0.01	6.7	59	54	415
M91-1	2020-04-15	290	0.66	0.84	42	13	690	1	< 0.1	22	0.004	< 0.1	< 0.01	7	60	55	360
M91-1	2021-05-05	280	0.69	0.89	43	13	660	1.6	< 0.1	23	0.005	< 0.1	< 0.01	7.3	65	54	325
M95-1	2006-11-28	337	0.19	0.03	115	13	766	2	0.18	26	0.03	0.27	< 0.1	2	11	76	498
M95-1	2010-10-28	322	< 0.05	0.024	115	10	751	2.2	0.38	27.6	0.006	0.1	< 0.01	2	7.6	64	476
M95-1	2011-05-04	325	< 0.15	0.018	120	8	748	1.7	0.11	29	0.003	0.1	< 0.01	2.3	8	63	448
M95-1	2011-10-25	332	< 0.15	0.026	120	9	765	1.6	0.18	31	0.003	< 0.1	< 0.01	2.4	8.3	65	500
M95-1	2012-04-25	330	< 0.15	0.026	110	7	723	1.5	< 0.1	26	0.0024	< 0.1	< 0.01	2.2	6.4	56	406
M95-1	2012-10-22	320	< 0.15	0.02	120	9	755	1.9	0.11	28	0.0033	< 0.1	< 0.01	2.3	7.3	66	446
M95-1	2013-04-25	330	0.25	0.027	110	7	719	2	< 0.1	27	0.002	0.12	< 0.01	2.1	6.4	61	462
M95-1	2013-10-24	310	< 0.15	0.018	110	8	556	5	< 0.1	28	0.0025	0.11	< 0.01	2.2	6.8	57	462
M95-1	2014-05-06	320	< 0.15	0.024	110	7	719	1.6	< 0.1	25	< 0.002	< 0.1	< 0.01	2.1	7.1	56	386
M95-1	2014-10-22	340	< 0.15	0.02	110	8	733	1.9	0.1	28	< 0.002	< 0.1	< 0.01	2.2	6.5	58	416
M95-1	2015-04-23	320	< 0.15	0.027	110	8	717	1.5	< 0.1	27	0.0024	< 0.1	< 0.01	2.3	6.7	55	458
M95-1	2016-05-03	320	< 0.15	0.029	100	5.8	644	1.7	< 0.1	26	< 0.002	< 0.1	< 0.01	2.2	5.8	47	252
M95-1	2017-05-04	320	< 0.15	< 0.02	100	5.9	700	1.3	< 0.1	26	< 0.002	< 0.1	< 0.01	2.2	5.8	49	402
M95-1	2018-05-17	340	< 0.15	< 0.02	110	4.8	680	1.6	< 0.1	26	0.003	< 0.1	< 0.01	2.3	5.6	48	510
M95-1	2019-05-02	290	< 0.15	0.034	87	6.7	650	1.7	< 0.1	27	0.003	0.57	< 0.01	3	6.3	46	400
M95-1	2020-04-16	300	< 0.15	< 0.02	92	3.7	650	1.4	< 0.1	23	0.002	< 0.1	< 0.01	2.1	4.7	40	380
M95-1	2021-05-06	300	< 0.15	0.023	99	4.9	640	2.2	< 0.1	24	0.003	0.12	< 0.01	2.3	5.3	45	340
M106	2010-11-16	331	0.99	0.91	47.5	200	1410	1.8	0.38	24.4	0.013	< 0.1	< 0.01	10	211	52	904
M106	2011-05-03	382	1.47	1.4	47	390	2080	1.6	< 0.1	30	< 0.002	< 0.1	< 0.01	13	370	47	1220
M106	2011-08-05	353	1.91	1.2	85	840	3280	1.4	< 0.1	51	0.003	< 0.1	< 0.01	18	520	50	2050



Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M106	2011-10-25	357	1.92	1.6	77	820	3360	1.3	< 0.1	50	0.002	< 0.1	< 0.01	18	590	14	1830
M106	2011-11-16	359	1.81	1.5	71	750	3040	1.6	< 0.1	47	0.003	< 0.1	< 0.01	17	550	11	1810
M106	2012-02-23	377	1.86	1.6	82	910	3510	1.3	< 0.1	54	< 0.002	< 0.1	0.01	17	570	12	1830
M106	2012-04-24	370	1.93	1.4	81	890	3690	1.4	< 0.1	49	< 0.002	< 0.1	< 0.01	18	570	79	1960
M106	2012-05-09	370	1.75	1.5	66	870	3460	1.4	< 0.1	40	< 0.002	< 0.1	< 0.01	16	540	12	1770
M106	2012-10-22	340	2.45	1.5	110	1100	4340	1	< 0.1	75	0.0024	< 0.1	< 0.01	22	730	27	2460
M106	2013-04-23	320	2.66	1.6	110	1300	4750	6.1	< 0.1	75	0.0023	< 0.1	< 0.01	23	740	9	2620
M106	2013-10-18	330	2.78	1.7	140	1700	5830	1.2	< 0.5	97	< 0.01	< 0.1	< 0.01	24	940	8	3300
M106	2015-11-23	320	2.78	2	120	1600	5460	1.1	< 0.5	80	< 0.01	< 0.1	< 0.01	24	970	2	3020
M106	2016-05-04	350	2.84	2	120	1700	5720	1.7	< 0.1	80	0.0023	< 0.1	< 0.01	23	880	1.6	2990
M106	2016-10-19	360	2.68	1.9	120	1700	5900	1.5	< 0.1	88	0.002	< 0.1	< 0.01	23	910	1.1	3370
M106	2017-05-01	370	2.43	1.9	100	1500	5300	1.1	< 0.1	70	< 0.002	< 0.1	< 0.01	21	830	< 1	2800
M106	2017-10-17	380	2.44	1.9	110	1500	4800	1.3	< 0.1	72	< 0.002	< 0.1	< 0.01	22	890	< 1	2780
M106	2018-05-17	370	2.78	1.9	120	1700	5600	1.3	< 0.1	76	< 0.002	< 0.1	< 0.01	23	870	1.8	3090
M106	2018-10-16	380	2.76	1.8	100	1600	5300	1.5	< 0.1	66	< 0.002	< 0.1	< 0.01	21	800	1.4	2800
M106	2019-05-01	330	2.64	1.9	120	1600	5600	1.4	< 0.1	78	0.002	< 0.1	< 0.01	24	900	1.8	3260
M106	2019-10-30	370	2.65	1.6	110	1500	5300	1.4	< 0.1	71	0.002	< 0.1	< 0.01	23	880	2.5	2740
M106	2020-04-17	370	2.59	1.7	110	1600	5500	1.2	< 0.1	70	< 0.002	< 0.1	< 0.01	22	870	< 1	2820
M106	2020-10-28	390	2.69	2.1	120	1500	5500	1.4	< 0.1	78	0.002	< 0.1	< 0.01	24	850	1.8	2970
M106	2021-05-04	370	2.66	1.8	110	1500	5400	1.6	< 0.1	72	< 0.002	< 0.1	< 0.01	23	860	1.1	2630
M108	2010-11-16	613	1.5	0.52	128	140	1550	8.7	0.13	60.2	0.005	< 0.1	< 0.01	13	109	28	950
M108	2011-08-05	436	0.98	0.29	87	48	985	5.4	< 0.1	32	0.008	< 0.1	< 0.01	8.4	73	16	640
M108	2011-11-16	439	1.01	0.34	89	57	990	6.2	< 0.1	37	0.007	< 0.1	< 0.01	9.2	82	14	524
M108	2012-02-23	502	1.04	0.34	120	120	1260	0.7	< 0.1	45	0.019	< 0.1	< 0.01	9.2	90	17	676
M108	2012-05-10	520	0.93	0.33	120	110	1290	5.3	0.14	42	0.027	< 0.1	< 0.01	8.6	88	17	700
M108	2013-10-18						974										
M108	2014-09-05	510	0.98	0.29	140	140	1340	5.6	0.44	42	0.053	< 0.1	< 0.01	7.6	88	7	794
M108	2015-11-25	560	1	0.32	160	140	1480	6.3	0.8	50	0.082	< 0.1	< 0.01	9	97	3.2	820
M108	2016-05-04	470	0.84	0.26	100	66	1040	5.5	0.73	33	0.072	< 0.1	< 0.01	7.2	73	3.7	604
M108	2016-10-19	510	0.86	0.3	110	110	1200	5.7	0.26	40	0.062	< 0.1	< 0.01	7.7	84	< 1	676
M108	2017-05-01	490	0.92	0.31	110	80	1100	4.7	1.3	37	0.091	< 0.1	< 0.01	7.7	76	5	664
M108	2017-10-16	560	0.8	0.24	130	110	1200	5.8	1.7	40	0.11	< 0.1	0.01	7	70	< 1	655
M108	2018-05-18	510	0.82	0.22	110	67	1100	4.8	2.3	34	0.12	< 0.1	< 0.01	6.9	65	2.7	595
M108	2018-10-15	540	0.9	0.28	130	100	1200	6	2.1	42	0.12	< 0.1	< 0.01	7.5	73	< 1	645
M108	2019-05-01	460	0.81	0.23	120	87	1100	5.5	2.9	36	0.14	< 0.1	< 0.01	6.9	68	< 1	615
M108	2019-10-29	420	0.76	0.21	99	64	970	5.2	1.8	29	0.1	< 0.1	< 0.01	6.5	58	< 1	545
M108	2020-04-16	450	0.71	0.2	100	63	1000	4.5	2.7	32	0.13	< 0.1	< 0.01	6.3	58	6.9	525
M108	2020-10-27	430	0.69	0.19	100	58	940	4.8	2.3	30	0.12	< 0.1	< 0.01	6.4	59	< 1	560
M108	2021-05-05	500	0.77	0.2	130	79	1100	5.5	3.6	36	0.16	< 0.1	< 0.01	7	67	< 1	555
M109-1	2011-08-04	525	0.79	0.5	120	190	1590	8.6	5.1	46	0.18	< 0.1	< 0.01	8.6	160	7	1030
M109-1	2011-11-17	548	0.66	0.47	130	140	1460	12.3	6.2	49	0.23	< 0.1	< 0.01	7.9	130	7	814
M109-1	2012-02-22	586	0.61	0.45	160	180	1630	11.1	9.1	56	0.31	< 0.1	< 0.01	7.8	130	7	944
M109-1	2012-05-08	580	0.59	0.43	160	180	1660	11	8.7	51	0.3	< 0.1	< 0.01	7.6	130	10	922
M109-1	2013-10-18						1816										
M109-1	2014-09-04	620	0.86	0.44	150	200	1770	10	12	47	0.37	< 0.1	< 0.01	6.5	140	< 1	1010
M109-1	2015-11-26	620	1.05	0.49	190	250	1970	13	14	62	0.43	< 0.1	< 0.01	8.2	160	< 1	1050
M109-1	2016-05-05	550	1.12	0.47	130	140	1410	9.3	11	48	0.3	< 0.1	< 0.01	7.3	130	< 1	760
M109-1	2016-10-20	630	1.05	0.52	140	170	1700	10	11	52	0.31	< 0.1	< 0.01	7.5	140	< 1	888
M109-1	2017-05-02	560	1.04	0.39	130	140	1500	7.8	11	45	0.3	< 0.1	< 0.01	7.4	110	< 1	784
M109-1	2017-10-16	670	1.14	0.41	160	170	1500	8.6	12	52	0.33	< 0.1	< 0.01	7.4	110	< 1	825
M109-1	2018-05-18	580	1.29	0.35	130	140	1400	7.6	13	42	0.31	< 0.1	< 0.01	7	97	< 1	785
M109-1	2018-10-15	650	1.31	0.45	160	150	1600	8.1	13	52	0.33	< 0.1	< 0.01	7.7	110	< 1	890
M109-1	2019-05-01	500	1.24	0.33	130	150	1400	8	13	39	0.33	< 0.1	< 0.01	6.5	96	< 1	710
M109-1	2019-10-29	520	1.27	0.32	130	130	1400	7.7	12	42	0.3	< 0.1	< 0.01	7.2	100	< 1	705
M109-1	2020-01-27	560	1.33	0.33	140	150	1400	7.6	14	42	0.33	< 0.1	< 0.01	6.9	100	1.4	820
M109-1	2020-04-17	510	1.26	0.32	120	130	1300	6.8	12	39	0.3	< 0.1	< 0.01	6.5	97	< 1	660
M109-1	2020-10-28	560	1.3	0.35	150	130	1400	7.5	13	44	0.3	< 0.1	< 0.01	7.2	110	< 1	735
M109-1	2021-05-05	560	1.4	0.37	140	140	1500	8.4	14	43	0.33	< 0.1	< 0.01	7	110	1.1	745

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M109-2	2020-01-27	260	1.57	0.99	35	110	880	1.5	< 0.1	25	0.002	< 0.1	< 0.01	14	95	9	460
M110-1	2011-08-04	563	0.67	0.49	120	170	1540	6	0.37	48	0.013	< 0.1	< 0.01	7.7	130	22	1010
M110-1	2011-11-17	673	0.66	0.49	170	180	1800	12.3	0.41	65	0.015	< 0.1	< 0.01	8.7	150	13	1010
M110-1	2012-02-22	628	0.56	0.44	160	170	1660	11.1	0.26	58	0.011	< 0.1	< 0.01	7.7	140	5	962
M110-1	2012-05-08	640	0.54	0.44	180	190	1780	10	< 0.1	59	0.013	< 0.1	< 0.01	7.9	130	7	1010
M110-1	2013-10-18						2005										
M110-1	2014-09-04	650	0.74	0.52	210	340	2250	10	0.11	71	0.016	< 0.1	< 0.01	8.4	160	< 1	1490
M110-1	2015-11-26	650	0.66	0.44	170	200	1820	10	< 0.1	59	0.015	< 0.1	< 0.01	8	150	< 1	992
M110-1	2016-05-05	680	0.66	0.52	180	200	1830	12	0.13	64	0.02	< 0.1	< 0.01	7.6	160	< 1	1020
M110-1	2016-10-20	710	0.63	0.5	180	240	2000	12	< 0.1	63	0.014	< 0.1	< 0.01	7.9	150	< 1	1110
M110-1	2017-05-02	650	0.52	0.46	150	160	1700	8.4	< 0.1	52	0.013	< 0.1	< 0.01	7.3	130	< 1	918
M110-1	2017-10-16	670	0.56	0.47	150	170	1600	8.6	0.11	51	0.013	< 0.1	< 0.01	6.8	120	< 1	865
M110-1	2018-05-18	680	0.6	0.42	160	150	1600	8.2	0.12	54	0.015	< 0.1	< 0.01	7.1	110	< 1	855
M110-1	2018-10-15	690	0.67	0.51	170	190	1800	9	< 0.1	57	0.015	< 0.1	< 0.01	7.4	120	< 1	955
M110-1	2019-05-01	640	0.65	0.42	180	200	1800	9.4	< 0.1	61	0.018	< 0.1	< 0.01	7.8	130	< 1	1070
M110-1	2019-10-29	600	0.77	0.39	150	150	1600	8.6	< 0.1	50	0.013	< 0.1	< 0.01	7.5	120	< 1	820
M110-1	2020-04-17	640	0.67	0.38	160	170	1700	8.3	< 0.1	55	0.017	< 0.1	< 0.01	7.1	110	< 1	920
M110-1	2020-10-28	660	0.64	0.48	180	160	1700	8	< 0.1	59	0.015	< 0.1	< 0.01	8.3	130	< 1	955
M110-1	2021-05-05	680	0.66	0.4	180	190	1800	9.7	< 0.1	61	0.019	< 0.1	< 0.01	8	120	< 1	985
M114-1	2011-06-17	523	1.47	1.3	90	480	2450	6.3	7.6	47	0.11	< 0.1	< 0.01	14	370	17	1350
M114-1	2011-08-05	361	0.21	0.19	84	38	810	4.3	5.2	20	0.29	< 0.1	< 0.01	4.6	62	12	518
M114-1	2011-11-17	416	0.28	0.23	130	110	1120	6.4	10	33	0.55	< 0.1	< 0.01	5.5	70	13	618
M114-1	2012-02-22	445	0.3	0.24	130	110	1160	0.3	9.5	34	0.52	< 0.1	< 0.01	5.7	80	17	654
M114-1	2012-05-09	410	0.29	0.22	100	79	1010	5.4	7.3	27	0.4	< 0.1	< 0.01	5.3	70	15	540
M114-1	2013-10-18						969										
M114-1	2014-09-04	450	0.51	0.25	130	130	1230	5.7	9.1	29	0.48	< 0.1	< 0.01	5.1	81	8	666
M114-1	2015-11-24	580	0.38	0.26	190	160	1590	7.3	14	47	0.69	< 0.1	< 0.01	6.9	100	5.1	942
M114-1	2016-05-05	350	0.32	0.16	83	45	814	4.3	5.3	20	0.3	< 0.1	< 0.01	4.3	59	7.3	286
M114-1	2016-10-19	400	0.36	0.21	100	120	1100	5.1	5.8	29	0.32	< 0.1	< 0.01	5.7	93	3	612
M114-1	2017-05-01	380	0.28	0.18	94	47	870	4.1	6.1	22	0.32	< 0.1	< 0.01	4.7	59	8.7	450
M114-1	2017-10-18	490	0.37	0.2	130	120	1200	4.8	7.9	32	0.4	< 0.1	< 0.01	5.5	74	5.7	640
M114-1	2018-05-17	400	0.43	0.17	91	47	860	3.8	5.1	22	0.26	< 0.1	< 0.01	5.1	60	6.7	615
M114-1	2018-10-16	440	0.56	0.25	110	130	1200	5	6.3	29	0.33	< 0.1	< 0.01	6.2	82	4.3	605
M114-1	2019-05-01	400	0.54	0.21	100	100	1000	4.6	5.7	28	0.29	< 0.1	< 0.01	5.8	72	4.5	625
M114-1	2019-10-29	390	0.42	0.2	110	91	990	4.7	5.8	25	0.29	< 0.1	< 0.01	5.2	71	1.8	560
M114-1	2020-04-09	390	0.43	0.18	110	73	960	4	6.8	25	0.33	< 0.1	< 0.01	5.4	67	8.5	510
M114-1	2020-10-28	380	0.4	0.17	100	66	910	4.3	5.7	25	0.3	< 0.1	< 0.01	5.3	62	1.7	515
M114-1	2021-05-05	400	0.42	0.18	110	68	940	5.2	8	25	0.37	< 0.1	< 0.01	5.2	67	5.8	480
M121	2013-02-21	570	1.48	0.42	140	150	1520	6.4	< 0.1	63	0.013	< 0.1	< 0.01	14	120	20	818
M121	2013-10-17	540	1.86	0.44	100	480	2590	6	0.1	53	0.037	< 0.1	< 0.01	13	120	29	2570
M121	2014-09-04	540	1.35	0.33	91	91	1260	4.6	0.11	46	0.0091	< 0.1	< 0.01	12	96	18	708
M121	2015-11-24	510	1.72	0.53	130	510	2580	4.8	< 0.1	76	0.0044	< 0.1	< 0.01	16	320	15	1560
M121	2016-05-05	520	1.56	0.48	110	390	2090	5.2	< 0.1	58	0.0028	< 0.1	< 0.01	13	230	12	1130
M121	2016-10-20	550	1.44	0.51	90	220	1700	5	< 0.1	52	0.003	< 0.1	< 0.01	13	200	14	890
M121	2017-05-03	520	1.26	0.34	99	96	1300	4.2	< 0.1	47	0.003	< 0.1	< 0.01	12	98	10	770
M121	2017-10-17	460	1.96	0.65	170	1000	3400	3.8	< 0.1	100	0.005	< 0.1	< 0.01	19	450	11	2150
M121	2018-05-18	530	1.76	0.74	91	470	2400	4	< 0.1	55	0.003	< 0.1	< 0.01	15	340	10	1090
M121	2018-10-18	590	1.89	1.6	81	1100	4600	3.6	< 0.5	62	< 0.01	< 0.1	< 0.01	17	740	34	2210
M121	2019-05-02	490	1.32	0.31	93	74	1100	4.7	< 0.1	43	0.003	< 0.1	< 0.01	11	75	9.1	675
M121	2019-10-31	550	2.13	1.6	91	950	4000	3.5	< 0.1	62	0.003	< 0.1	< 0.01	17	780	7.3	2000
M121	2020-04-07	500	1.32	0.31	96	100	1100	4.1	< 0.1	45	0.003	< 0.1	< 0.01	11	81	9	670
M121	2020-10-29	590	1.9	1.5	72	940	4000	3	< 0.1	55	< 0.002	< 0.1	< 0.01	16	710	5.3	2140
M121	2021-05-06	490	1.26	0.28	100	98	1200	4.9	< 0.1	46	0.004	< 0.1	< 0.01	12	75	8.3	615
M123	2013-02-21	390	0.37	0.18	130	75	969	4.1	0.14	27	0.042	< 0.1	< 0.01	4.3	59	18	524
M123	2013-10-17	420	0.4	0.21	130	81	1060	4.4	< 0.1	26	0.042	< 0.1	< 0.01	4.1	54	19	590
M123	2014-09-05	360	0.33	0.16	100	42	789	3.1	< 0.1	20	0.026	< 0.1	< 0.01	3.5	43	16	462
M123	2015-11-25	450	0.3	0.16	140	75	1050	4.1	< 0.1	28	0.016	< 0.1	< 0.01	4.3	51	7.9	582
M123	2016-05-05	410	0.33	0.18	110	42	887	4.2	< 0.1	24	0.012	< 0.1	< 0.01	4	56	7.9	512

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M123	2016-10-20	400	0.25	0.16	100	41	870	3.8	< 0.1	22	0.016	< 0.1	< 0.01	3.8	48	8.2	470
M123	2017-05-04	430	0.28	0.18	120	59	980	3.6	< 0.1	25	0.013	< 0.1	< 0.01	4.1	52	8.1	556
M123	2017-10-17	400	0.27	0.15	100	42	810	3.8	< 0.1	22	0.011	< 0.1	< 0.01	3.6	46	6.8	460
M123	2018-05-18	420	0.32	0.16	100	38	870	3.7	< 0.1	22	0.01	< 0.1	< 0.01	3.8	47	6.3	440
M123	2018-10-18	390	0.32	0.18	110	39	850	3.6	< 0.1	22	0.012	< 0.1	< 0.01	4	47	7.5	395
M123	2019-05-02	410	0.3	0.16	110	62	930	3.9	< 0.1	24	0.011	< 0.1	< 0.01	3.9	46	6.6	560
M123	2019-10-31	350	0.27	0.12	91	33	750	3.2	< 0.1	19	0.012	< 0.1	< 0.01	3.7	39	6.7	395
M123	2020-04-08	370	0.25	0.18	98	39	770	3.4	< 0.1	21	0.01	< 0.1	< 0.01	3.8	45	8.9	525
M123	2020-10-29	350	0.24	0.14	89	29	730	3.4	< 0.1	19	0.011	< 0.1	< 0.01	3.6	41	7	450
M123	2021-05-06	450	0.27	0.16	130	62	980	4.1	< 0.1	26	0.015	< 0.1	< 0.01	4.3	47	4.1	500
M167	2013-08-13	520	1.78	1	75	130	1360	4.1	< 0.1	45	0.0081	< 0.1	< 0.01	16	160	21	754
M167	2013-10-18	510	1.78	1	77	170	1540	6.1	< 0.1	50	0.017	< 0.1	< 0.01	16	180	25	852
M167	2014-08-08	500				500		6.7	0.3		0.025				310		1380
M167	2014-09-05	520	1.84	0.84	98	310	1790	4.1	< 0.1	56	0.0063	< 0.1	< 0.01	15	210	21	1000
M167	2015-11-26	420	1.74	0.91	82	230	1580	3.5	< 0.1	51	0.0027	< 0.1	< 0.01	17	180	11	802
M167	2016-05-05	430	1.9	0.94	87	250	1640	4.2	< 0.1	56	0.0022	< 0.1	< 0.01	18	180	12	874
M167	2016-10-19	410	1.89	0.97	89	450	2200	4	< 0.1	58	0.003	< 0.1	< 0.01	17	230	8.3	1150
M167	2017-05-03	380	1.93	0.95	100	360	1900	3.2	< 0.1	62	0.002	< 0.1	< 0.01	19	190	12	1060
M167	2017-10-18	390	1.86	1.1	95	420	2100	2.9	< 0.1	61	0.003	< 0.1	< 0.01	19	220	1.7	1180
M167	2018-05-17	540	1.86	0.69	88	170	1500	4.8	< 0.1	54	0.003	< 0.1	< 0.01	16	140	13	935
M167	2018-10-17	420	2.02	0.95	100	420	2100	3.4	< 0.1	60	0.003	< 0.1	< 0.01	18	220	7.5	1210
M167	2019-04-30	400	2.03	0.94	98	390	2000	3.9	< 0.1	57	0.003	< 0.1	< 0.01	18	210	8.6	1060
M167	2019-10-30	400	2.06	0.82	100	420	2100	3.5	< 0.1	63	0.003	< 0.1	< 0.01	19	230	5.9	1060
M167	2020-04-07	390	2.01	0.88	97	400	2000	3.1	< 0.1	59	0.004	< 0.1	< 0.01	19	190	2	1170
M167	2020-10-29	390	2.05	0.93	100	470	2300	3.1	< 0.1	64	0.003	< 0.1	< 0.01	20	250	3.5	1150
M167	2021-05-06	560	1.46	0.43	110	110	1300	5.4	< 0.1	49	0.003	< 0.1	< 0.01	15	97	< 1	640
M168	2013-08-13	530	1.65	0.46	120	140	1400	5.3	< 0.1	53	0.0091	< 0.1	< 0.01	15	98	29	776
M168	2013-10-21	530	1.57	0.5	120	130	1410	5.4	< 0.1	56	0.01	< 0.1	< 0.01	16	100	28	764
M168	2014-09-05	330	1.62	0.3	170	420	1930	3.6	< 0.1	63	0.0053	< 0.1	< 0.01	15	120	30	1780
M168	2015-11-26	390	1.51	0.38	150	330	1850	3.6	< 0.1	60	0.0045	< 0.1	< 0.01	16	130	15	1020
M168	2016-03-08	350	1.45	0.36	170	340	1870	4.3	< 0.1	61	0.0068	< 0.1	< 0.01	16	130	16	1150
M168	2016-03-21	410	1.35	0.39	160	300	1770	4.7	< 0.1	57	0.0038	< 0.1	< 0.01	15	130	18	964
M168	2016-05-06	410	1.29	0.39	150	290	1660	4.6	< 0.1	50	0.0034	< 0.1	< 0.01	14	120	15	950
M168	2016-10-19	410	1.43	0.41	140	320	1800	5.1	< 0.1	55	0.004	< 0.1	< 0.01	15	140	14	1030
M168	2017-05-03	350	1.19	0.36	120	260	1700	4.3	< 0.1	43	0.003	< 0.1	< 0.01	13	130	35	918
M168	2017-10-18	420	1.39	0.54	130	320	1800	3.5	< 0.1	48	0.004	< 0.1	< 0.01	15	160	13	1070
M168	2018-05-17	500	1.34	0.6	140	260	1700	4.3	< 0.1	49	0.003	< 0.1	< 0.01	14	150	13	1020
M168	2018-10-17	470	1.4	0.57	140	300	1800	4.3	< 0.1	49	0.005	< 0.1	< 0.01	14	150	17	1040
M168	2019-04-30	440	1.44	0.66	160	410	2100	4.4	< 0.1	57	0.004	< 0.1	< 0.01	15	180	5.1	1260
M168	2019-10-31	480	1.47	0.69	140	330	1900	4.4	< 0.1	52	0.003	< 0.1	< 0.01	15	190	4.5	1010
M168	2020-04-07	480	1.35	0.72	140	300	1900	4	< 0.1	48	0.003	< 0.1	< 0.01	14	170	5.5	1020
M168	2020-10-29	490	1.36	0.7	140	290	1900	4.1	< 0.1	50	0.003	< 0.1	< 0.01	14	180	3.5	990
M168	2021-05-06	490	1.28	0.69	120	260	1700	4.1	< 0.1	44	0.003	< 0.1	< 0.01	13	170	6.6	890
M170	2013-08-13	430	1.91	1.9	52	850	3520	2.8	1.1	38	0.037	< 0.1	< 0.01	15	630	29	1880
M170	2013-10-21	500	1.88	2	60	940	4030	3.4	< 0.1	46	0.025	< 0.1	< 0.01	16	720	23	2040
M170	2014-09-05	460	2.66	2.3	110	1700	5840	2.6	< 0.1	87	0.0059	< 0.1	< 0.01	24	1000	22	3490
M170	2015-11-26	620	1.52	2.3	38	620	3220	5	< 0.1	32	< 0.002	< 0.1	< 0.01	15	640	12	1750
M170	2016-03-08	700	1.52	2.2	26	410	2630	4.9	< 0.1	21	0.0022	< 0.1	0.012	13	470	4.9	1470
M170	2016-03-21	690	1.46	2.2	27	430	2670	6.9	< 0.1	20	0.0041	< 0.1	< 0.01	12	560	2.9	1450
M170	2016-05-04	700	1.53	2.4	29	450	2670	5.3	< 0.1	22	0.0023	< 0.1	< 0.01	13	580	6.5	1480
M170	2016-10-19	600	2.03	2.2	61	1000	4400	3.8	< 0.1	52	0.002	< 0.1	< 0.01	17	740	3.6	2300
M170	2017-05-01	740	1.44	2.3	26	390	2700	4.4	< 0.1	20	0.004	< 0.1	< 0.01	12	520	1.1	1410
M170	2017-10-18	670	1.66	2.5	45	750	3500	4.2	< 0.1	34	< 0.002	< 0.1	< 0.01	16	640	3.2	1880
M170	2018-05-15	780	1.62	2.3	27	390	2600	4.2	< 0.1	21	< 0.002	< 0.1	< 0.01	13	530	13	1410
M170	2018-10-15	740	1.71	2.5	35	530	2900	4.6	< 0.1	28	< 0.002	< 0.1	< 0.01	14	600	14	1590
M170	2019-05-01	690	1.6	2.4	36	580	3000	4.9	< 0.1	28	< 0.002	< 0.1	< 0.01	14	590	4.9	1730
M170	2019-10-29	690	1.83	2.3	39	620	3300	4.5	< 0.1	28	< 0.002	< 0.1	< 0.01	15	650	6.4	1740
M170	2020-04-09	810	1.56	2.3	29	310	2400	4.2	< 0.1	21	< 0.002	< 0.1	< 0.01	14	490	7.4	1370

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M170	2020-10-29	770	1.72	2.1	38	480	2900	4	< 0.1	26	< 0.002	< 0.1	< 0.01	14	560	4.1	1590
M170	2021-05-06	770	1.46	1.8	30	340	2400	4.5	< 0.1	22	< 0.002	< 0.1	< 0.01	13	510	8.1	1320
M172	2013-08-13	520	0.68	0.33	160	130	1380	6.7	19	37	0.89	< 0.1	< 0.01	5.1	98	14	776
M172	2015-11-24	580	0.87	0.26	190	190	1730	8.9	27	46	0.91	< 0.1	< 0.01	6	110	4.1	1020
M172	2016-05-05	310	0.62	0.11	83	28	667	4.4	11	20	0.44	< 0.1	< 0.01	3.7	35	8	366
M172	2016-10-20	520	0.74	0.15	160	140	1400	6.9	23	38	0.82	< 0.1	< 0.01	4.9	61	3.2	754
M172	2017-05-04	330	0.53	0.11	86	34	720	4.4	12	19	0.44	< 0.1	< 0.01	3.6	39	8.6	398
M172	2017-10-19	570	0.74	0.16	160	120	1300	6.5	22	35	0.75	< 0.1	< 0.01	4.7	66	4.5	615
M172	2018-05-17	330	0.61	0.081	84	25	670	3.9	11	18	0.39	< 0.1	< 0.01	3.2	29	8.2	525
M172	2018-10-15	570	0.87	0.15	190	140	1400	6.6	24	42	0.85	< 0.1	< 0.01	4.9	61	< 1	795
M172	2019-05-02	350	0.69	0.12	95	64	850	5.1	13	22	0.44	< 0.1	< 0.01	3.5	48	5	495
M172	2019-10-29	480	0.8	0.15	150	120	1200	6.2	20	33	0.64	< 0.1	< 0.01	4.5	56	< 1	695
M177	2014-09-04	250	0.6	0.32	58	4	528	1.3	< 0.1	13	0.027	< 0.1	< 0.01	4.7	27	28	320
M177	2015-11-25	240	0.58	0.4	71	7.6	528	1.6	< 0.1	17	0.008	< 0.1	< 0.01	6.5	13	23	304
M177	2016-05-03	240	0.48	0.27	76	6.7	522	2	< 0.1	16	0.0065	< 0.1	< 0.01	5.3	9.6	34	308
M177	2016-10-20	250	0.56	0.37	76	9.7	560	4.4	< 0.1	17	0.008	< 0.1	< 0.01	6.4	8.5	36	514
M177	2017-05-04	250	0.42	0.26	77	6.4	560	1.7	< 0.1	16	0.006	< 0.1	< 0.01	5.2	7.1	38	330
M177	2017-10-19	250	0.52	0.35	71	8.3	530	1.7	< 0.1	15	0.006	< 0.1	< 0.01	6	9.1	28	230
M177	2018-05-16	250	0.48	0.24	77	4	540	1.9	< 0.1	16	0.006	< 0.1	< 0.01	5.1	7.2	39	275
M177	2018-10-16	250	0.59	0.36	78	11	550	2.1	< 0.1	15	0.007	< 0.1	< 0.01	6.2	8.8	35	305
M177	2019-04-30	240	0.46	0.25	84	3.5	550	2.7	< 0.1	17	0.007	< 0.1	< 0.01	5.1	6.1	43	355
M177	2019-10-30	250	0.55	0.32	79	7.2	520	2.3	< 0.1	16	0.006	< 0.1	< 0.01	5.9	8.1	34	290
M177	2020-04-07	230	0.4	0.24	76	4.8	530	1.7	< 0.1	15	0.005	< 0.1	< 0.01	4.8	6.5	40	330
M177	2020-10-28	250	0.55	0.38	84	12	560	1.9	< 0.1	17	0.005	< 0.1	< 0.01	6.4	8.8	33	350
M177	2021-05-06	240	0.41	0.25	81	7.4	540	2	< 0.1	16	0.006	< 0.1	< 0.01	5.3	7.2	36	290
M178R-2	2015-11-17	450	0.3	0.24	140	87	1110	5.1	1.1	32	0.061	< 0.1	< 0.01	5.8	63	21	618
M178R-2	2015-11-25	440	0.27	0.23	140	79	1090	5.3	1.1	29	0.055	< 0.1	< 0.01	5.7	60	21	594
M178R-2	2015-11-30	430	0.27	0.23	130	75	1070	4.6	1	28	0.053	< 0.1	< 0.01	5.6	55	21	614
M178R-2	2016-03-07	420	0.27	0.19	130	63	1010	5.5	1.1	27	0.056	< 0.1	< 0.01	5.2	56	19	558
M178R-2	2016-05-03	380	0.26	0.19	110	42	850	5	0.92	23	0.051	< 0.1	< 0.01	4.9	49	18	502
M178R-2	2016-10-18	380	0.22	0.15	99	41	840	4.5	0.69	21	0.043	< 0.1	< 0.01	4.5	42	15	486
M178R-2	2017-05-04	390	0.22	0.19	110	57	930	3.9	0.98	24	0.056	< 0.1	< 0.01	5	50	20	524
M178R-2	2017-10-19	380	0.24	0.15	99	40	830	3.7	2.1	21	0.058	< 0.1	< 0.01	4.4	39	14	390
M178R-2	2018-05-16	400	0.23	0.17	110	40	850	4.5	1.2	23	0.068	< 0.1	< 0.01	4.7	44	17	420
M178R-2	2018-10-17	370	0.3	0.16	110	43	830	3.9	1	22	0.062	< 0.1	< 0.01	4.7	40	16	415
M178R-2	2019-04-30	390	0.25	0.18	120	66	930	4.3	1.4	25	0.08	< 0.1	< 0.01	4.9	48	18	550
M178R-2	2019-10-30	360	0.22	0.13	100	40	830	4.4	1	21	0.062	< 0.1	< 0.01	4.3	39	14	425
M178R-2	2020-04-07	370	0.21	0.15	110	45	870	3.9	1.2	23	0.07	< 0.1	< 0.01	4.6	45	18	560
M178R-2	2020-10-28	350	0.21	0.16	100	35	780	4.1	0.84	21	0.056	< 0.1	< 0.01	4.5	41	16	455
M178R-2	2021-05-06	410	0.23	0.16	120	65	950	4.7	1.3	26	0.077	< 0.1	< 0.01	4.9	48	18	450
M178R-3	2015-11-17	440	0.33	0.23	140	85	1100	4.8	0.96	31	0.063	< 0.1	< 0.01	5.9	62	22	606
M178R-3	2015-11-25	450	0.31	0.23	140	86	1110	4.7	0.97	31	0.059	< 0.1	< 0.01	6.1	63	21	626
M178R-3	2015-11-30	440	0.31	0.23	140	87	1120	4.8	0.81	29	0.054	< 0.1	< 0.01	6	56	21	622
M178R-3	2016-03-07	460	0.35	0.2	140	83	1140	5.6	0.74	30	0.051	< 0.1	< 0.01	5.6	61	18	610
M178R-3	2016-05-03	410	0.32	0.21	120	56	937	5.6	0.56	26	0.042	< 0.1	< 0.01	5.2	54	19	552
M178R-3	2016-10-18	410	0.29	0.17	100	44	900	4.6	3.7	24	0.075	< 0.1	< 0.01	5.3	49	13	530
M178R-3	2017-05-04	430	0.29	0.22	120	71	1000	4	0.81	28	0.053	< 0.1	< 0.01	5.4	57	20	556
M178R-3	2017-10-19	400	0.29	0.18	99	43	860	3.9	0.85	22	0.041	< 0.1	< 0.01	4.8	46	12	415
M178R-3	2018-05-16	420	0.33	0.2	120	45	920	4.1	1.1	25	0.049	< 0.1	< 0.01	5.1	49	17	455
M178R-3	2018-10-17	390	0.35	0.18	110	43	860	3.8	1.3	24	0.061	< 0.1	< 0.01	5	46	14	410
M178R-3	2019-04-30	420	0.36	0.24	120	77	1000	4.5	1.1	28	0.059	< 0.1	< 0.01	5.5	55	20	575
M178R-3	2019-10-30	390	0.36	0.19	110	55	910	4.7	1.6	25	0.059	< 0.1	< 0.01	5.2	50	13	445
M178R-3	2020-04-07	400	0.35	0.21	120	67	970	4	1	26	0.052	< 0.1	< 0.01	5.2	51	20	555
M178R-3	2020-10-28	410	0.34	0.24	120	60	950	4.3	1.3	27	0.074	< 0.1	< 0.01	5.4	52	13	500
M178R-3	2021-05-06	410	0.3	0.21	120	70	990	4.4	1.3	27	0.068	< 0.1	< 0.01	5.3	50	24	510
M178R-4	2015-11-13	450	0.26	0.22	140	85	1090	4.4	0.12	29	0.013	< 0.1	< 0.01	4.6	56	20	620
M178R-4	2015-11-25	440	0.36	0.24	140	87	1100	4.4	< 0.1	29	0.013	< 0.1	< 0.01	4.6	59	19	632
M178R-4	2015-11-30	440	0.25	0.23	140	83	1100	4.5	< 0.1	27	0.012	< 0.1	< 0.01	4.5	53	20	626

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M178R-4	2016-03-07	470	0.28	0.22	150	100	1210	6.9	< 0.1	31	0.01	< 0.1	< 0.01	4.5	62	20	656
M178R-4	2016-05-03	460	0.26	0.22	140	73	1020	5.1	< 0.1	29	0.0099	< 0.1	< 0.01	4.4	60	18	626
M178R-4	2016-10-18	420	0.25	0.21	110	49	950	4.8	< 0.1	25	0.01	< 0.1	< 0.01	4.5	52	17	536
M178R-4	2017-05-04	450	0.27	0.23	130	81	1100	4.3	< 0.1	29	0.02	< 0.1	< 0.01	5	60	19	608
M178R-4	2017-10-19	390	0.27	0.18	96	42	850	3.6	< 0.1	21	0.018	< 0.1	< 0.01	4.4	45	14	395
M178R-4	2018-05-16	440	0.34	0.2	120	49	970	4	< 0.1	26	0.022	< 0.1	< 0.01	4.6	52	16	465
M178R-4	2018-10-17	400	0.32	0.19	110	43	870	4	< 0.1	23	0.019	< 0.1	< 0.01	4.7	46	15	455
M178R-4	2019-04-30	430	0.34	0.22	130	79	1100	4.6	0.14	29	0.03	< 0.1	< 0.01	5	58	19	570
M178R-4	2019-10-30	380	0.32	0.17	110	49	900	3.9	0.13	23	0.025	< 0.1	< 0.01	4.7	46	15	440
M178R-4	2020-04-07	410	0.27	0.2	130	73	1000	4.1	0.13	26	0.028	< 0.1	< 0.01	4.7	54	18	600
M178R-4	2020-10-28	400	0.3	0.2	120	48	900	3.9	0.12	25	0.029	< 0.1	< 0.01	5.2	51	14	540
M178R-4	2021-05-06	420	0.3	0.18	130	79	1000	4.1	0.19	28	0.037	< 0.1	< 0.01	4.9	51	22	550
M179	2014-09-04	340	0.24	0.11	120	36	796	3	0.62	11	0.041	< 0.1	< 0.01	2.5	26	27	474
M179	2015-11-25	260	0.15	0.12	100	39	701	3.7	0.95	12	0.031	< 0.1	< 0.01	3.6	26	37	420
M179	2015-12-21	270	0.16	0.15	110	48	762	3.4	0.91	13	0.027	< 0.1	< 0.01	3.6	29	38	396
M179	2016-05-04	250	< 0.15	0.14	87	45	666	3.8	0.48	11	0.027	< 0.1	< 0.01	3.9	42	24	388
M179	2016-10-20	320	0.27	0.28	98	64	830	3.8	0.83	16	0.044	< 0.1	0.015	4.5	49	30	434
M179	2017-05-04	220	< 0.15	0.1	75	31	560	3.2	0.38	9.1	0.018	< 0.1	< 0.01	3.9	25	22	310
M179	2017-10-18	350	0.3	0.26	92	47	820	3	0.43	14	0.028	< 0.1	0.012	4.6	44	23	485
M179	2018-05-17	270	0.16	0.15	81	49	690	2.7	0.54	11	0.025	< 0.1	< 0.01	4.2	42	18	460
M179	2018-10-15	330	0.37	0.31	94	63	790	3.1	0.79	15	0.043	< 0.1	0.033	4.7	53	24	450
M179	2019-05-02	230	0.21	0.14	74	30	560	3.6	0.39	10	0.022	< 0.1	< 0.01	3.5	26	19	335
M179	2019-10-30	290	0.35	0.25	89	58	740	3.2	0.35	14	0.029	< 0.1	< 0.01	4.3	46	20	375
M179	2020-04-07	220	0.16	0.16	75	34	570	2.9	0.23	11	0.02	< 0.1	< 0.01	3.5	29	22	355
M179	2020-10-28	240	0.32	0.31	100	67	770	2.6	0.16	17	0.029	< 0.1	< 0.01	4.7	56	19	375
M179	2021-05-06	230	0.19	0.17	77	39	610	3.2	0.28	12	0.023	< 0.1	< 0.01	4	34	25	315
M185-1	2015-11-26	410	1.13	1.2	42	260	1970	29	0.35	11	0.034	< 0.1	0.015	10	410	130	1090
M185-1	2015-12-22	430	6	0.93	50	350	2380	4.3	< 0.1	14	0.057	< 0.5	< 0.05	22	440	280	1400
M185-1	2016-05-03	290	0.28	0.16	67	25	687	2.9	< 0.1	9.7	0.015	1.07	0.091	11	73	55	432
M185-1	2016-10-20	330	2.1	0.26	39	180	1400	2.2	< 0.1	7.2	0.019	0.5	0.024	9	86	92	630
M185-1	2017-05-04	210	1.15	0.29	48	66	700	4.8	< 0.1	8.2	0.016	0.59	< 0.01	7.4	69	37	450
M185-1	2017-10-19	340	1.6	1.5	24	350	1900	1.7	< 0.1	7.3	0.037	< 0.1	< 0.01	10	360	50	950
M185-1	2018-05-16	320	1.51	1.4	30	340	1900	1.6	< 0.1	9.3	0.06	< 0.1	< 0.01	11	340	77	925
M185-1	2018-10-16	300	1.69	1.4	33	400	2000	1.9	< 0.1	10	0.026	< 0.1	< 0.01	10	350	70	1070
M185-1	2019-04-30	270	1.36	1.4	41	410	2000	1.7	< 0.1	14	0.033	< 0.1	< 0.01	9.6	330	56	1080
M185-1	2019-05-24	300															
M185-1	2019-08-23	300	1.65	1.3	39	460	2100	2.6	< 0.1	14	0.014	< 0.1	< 0.01	10	350	37	1200
M185-1	2019-10-30	290	1.61	1.4	41	470	2200	2.5	< 0.1	14	0.012	< 0.1	< 0.01	10	380	45	1130
M185-1	2020-01-23	300															
M185-1	2020-04-07	290	1.45	1.4	44	450	2200	1.3	< 0.1	16	0.011	< 0.1	< 0.01	11	380	53	1170
M185-1	2020-10-28	300	1.6	1.6	43	450	2200	1.3	< 0.1	17	0.007	< 0.1	< 0.01	11	410	35	1140
M185-1	2021-05-06	280	1.48	1.3	45	490	2200	1.5	< 0.1	20	0.015	< 0.1	< 0.01	11	390	40	1060
M185-2	2014-09-04	290	0.73	0.52	61	22	695	1.8	< 0.1	21	0.029	< 0.1	< 0.01	6.2	48	50	402
M185-2	2015-11-25	310	< 0.15	0.12	120	2.6	603	2.1	< 0.1	8.5	0.012	< 0.1	< 0.01	2.4	4.5	20	340
M185-2	2016-05-03	290	0.2	0.16	120	13	578	2.5	< 0.1	10	0.015	< 0.1	< 0.01	2.8	7.8	22	362
M185-2	2016-10-20	290	0.15	0.27	100	17	650	2	0.11	9.9	0.014	< 0.1	< 0.01	2.7	14	37	374
M185-2	2017-05-04	270	0.16	0.22	130	64	760	1.9	< 0.1	11	0.019	< 0.1	< 0.01	3	13	29	482
M185-2	2017-10-19	300	< 0.15	0.07	110	2	590	2.1	0.15	5.5	0.01	< 0.1	< 0.01	1.5	2.6	29	320
M185-2	2018-05-16	290	0.19	0.17	140	86	820	2	0.17	11	0.018	< 0.1	< 0.01	2.7	9.3	25	445
M185-2	2018-10-16	290	< 0.15	0.076	110	3.4	570	2.3	0.12	5.6	0.02	< 0.1	< 0.01	1.7	3.3	23	315
M185-2	2019-04-30	270	< 0.15	0.082	120	4.2	580	2.1	< 0.1	6	0.018	< 0.1	< 0.01	1.8	3.3	30	345
M185-2	2019-05-24	280															
M185-2	2019-10-30	280	< 0.15	0.075	120	5.5	610	2.2	0.18	5.6	0.015	< 0.1	< 0.01	1.5	3.5	36	320
M185-2	2020-04-07	280	< 0.15	0.14	130	25	680	1.7	< 0.1	7.7	0.014	< 0.1	< 0.01	2	8.1	40	430
M185-2	2020-10-28	280	< 0.15	0.1	110	2.9	560	2	< 0.1	6.5	0.013	< 0.1	< 0.01	1.9	4.8	25	330
M185-2	2021-05-06	270	< 0.15	0.11	110	13	590	2.1	0.12	6.6	0.018	< 0.1	< 0.01	2	6.7	33	295
M186	2014-09-05	300	2.18	1.3	160	1200	4260	3.7	< 0.1	67	0.21	< 0.1	< 0.01	13	690	29	2890
M186	2015-11-26	300	2.47	1.5	120	1300	4690	3.7	1.4	64	0.43	< 0.1	< 0.01	22	770	51	2480

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Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M186	2015-12-21	320	2.63	1.5	150	1100	4330	3.5	13	81	0.34	< 0.1	< 0.01	18	870	13	2390
M186	2016-05-04	320	2.48	2	78	1200	4390	2.7	0.7	54	0.21	< 0.1	< 0.01	21	700	19	2360
M186	2016-10-19	360	2.18	1.9	75	1200	4600	7.7	0.19	53	0.11	< 0.1	< 0.01	21	750	42	2440
M186	2017-05-03	340	2.56	2.1	72	1200	4500	2.9	0.47	52	0.073	< 0.1	< 0.01	22	780	12	2400
M186	2017-10-18	370	2.2	2.1	71	1200	4300	2.1	0.52	47	0.12	< 0.1	< 0.01	21	650	8.5	2210
M186	2018-05-17	360	2.46	2.2	75	1200	4400	1.9	0.39	50	0.098	< 0.1	< 0.01	23	730	7.9	2370
M186	2018-10-16	360	2.39	2	72	1200	4400	1.6	0.43	48	0.086	< 0.1	< 0.01	21	700	8.8	2260
M186	2019-05-02	350	2.47	1.9	63	1200	4300	1.8	0.2	43	0.044	< 0.1	< 0.01	20	690	9.4	2330
M186	2019-10-30	350	2.46	1.8	69	1100	4300	1.8	0.42	50	0.07	< 0.1	< 0.01	22	740	3	2190
M186	2020-04-07	340	2.45	1.8	75	1100	4200	1.3	0.43	49	0.059	< 0.1	< 0.01	23	700	13	2180
M186	2020-10-29	350	2.57	1.9	76	1200	4500	1.5	0.35	52	0.066	< 0.1	< 0.01	23	750	2.5	2310
M186	2021-05-06	340	2.48	1.9	70	1200	4400	1.8	0.3	52	0.054	< 0.1	< 0.01	23	700	11	2120
M187	2015-11-11	260	< 0.15	0.1	120	33	733	2.1	< 0.1	10	0.0028	0.66	< 0.01	2.5	23	74	440
M187	2015-11-25	260	< 0.15	0.11	130	36	770	2	< 0.1	10	0.0024	0.45	< 0.01	2.6	25	81	484
M187	2015-11-30	260	< 0.15	0.12	120	38	777	2.1	< 0.1	9.5	0.0022	0.49	< 0.01	2.6	25	82	476
M187	2016-03-08	250	< 0.15	0.12	150	48	931	2.8	< 0.1	12	< 0.002	0.34	< 0.01	2.7	30	160	562
M187	2016-05-04	250	< 0.15	0.13	150	49	921	2.7	< 0.1	13	0.0051	0.3	< 0.01	2.9	41	160	602
M187	2016-10-19	260	0.32	0.33	140	200	1400	2.1	< 0.1	19	0.013	0.11	0.017	5	110	130	836
M187	2017-05-03	240	< 0.15	0.072	98	19	580	2.3	< 0.1	7.2	0.002	0.57	< 0.01	2.3	16	34	404
M187	2017-10-17	270	< 0.15	0.091	100	25	610	3.5	< 0.1	7.7	0.004	0.28	< 0.01	2.3	18	39	350
M187	2018-05-18	260	< 0.15	0.063	97	19	600	2.3	< 0.1	7	< 0.002	< 0.1	< 0.01	1.9	15	38	305
M187	2018-10-18	270	< 0.15	0.084	110	24	640	2.1	< 0.1	7.4	< 0.002	0.44	< 0.01	2.2	18	39	290
M187	2019-05-01	250	< 0.15	0.078	100	18	550	2.3	< 0.1	6.8	< 0.002	0.3	< 0.01	2.1	15	32	345
M187	2019-10-30	260	< 0.15	0.074	100	18	620	2.3	< 0.1	7.2	< 0.002	0.15	< 0.01	1.9	14	35	315
M187	2020-04-08	240	< 0.15	0.078	97	19	560	2	< 0.1	7	0.002	< 0.1	< 0.01	2	16	42	350
M187	2020-10-29	260	< 0.15	0.072	100	18	600	2.1	< 0.1	6.7	< 0.002	0.17	< 0.01	1.8	15	37	355
M187	2021-05-05	240	< 0.15	0.056	94	15	550	2.8	< 0.1	6.8	< 0.002	< 0.1	< 0.01	1.9	12	34	290
M188-1	2015-11-13	330	0.68	0.69	52	75	874	2	< 0.1	21	0.011	< 0.1	< 0.01	6.6	100	15	468
M188-1	2015-11-25	330	0.68	0.74	57	81	895	2	< 0.1	24	0.011	< 0.1	< 0.01	7.2	110	15	504
M188-1	2015-11-30	330	0.71	0.72	53	80	906	2.1	< 0.1	21	0.0094	< 0.1	< 0.01	6.9	100	18	504
M188-1	2016-03-07	340	0.73	0.61	64	82	931	2.6	< 0.1	24	0.0095	< 0.1	< 0.01	6.8	98	18	496
M188-1	2016-05-03	320	0.66	0.61	63	65	821	2.2	< 0.1	23	0.0095	< 0.1	< 0.01	6.7	86	18	464
M188-1	2016-10-18	320	0.68	0.55	59	65	830	2	< 0.1	23	0.009	< 0.1	< 0.01	6.6	86	19	472
M188-1	2017-05-04	320	0.56	0.56	54	61	830	1.9	< 0.1	20	0.008	< 0.1	< 0.01	6.2	87	18	458
M188-1	2017-10-19	320	0.6	0.5	52	50	770	2.1	< 0.1	19	0.008	< 0.1	< 0.01	5.8	72	15	320
M188-1	2018-05-16	320	0.64	0.49	55	41	720	2.1	< 0.1	20	0.009	< 0.1	< 0.01	5.8	68	15	360
M188-1	2018-10-16	300	0.62	0.46	57	41	720	1.9	0.11	19	0.01	< 0.1	< 0.01	5.7	61	14	380
M188-1	2019-04-30	300	0.6	0.46	57	38	710	1.9	0.41	19	0.014	< 0.1	< 0.01	5.7	67	15	390
M188-1	2019-10-30	290	0.57	0.4	57	32	650	1.9	0.4	19	0.013	< 0.1	< 0.01	5.4	55	12	330
M188-1	2020-04-07	280	0.53	0.39	57	36	680	1.6	0.15	18	0.009	< 0.1	< 0.01	5.3	61	14	450
M188-1	2020-10-28	280	0.53	0.4	57	30	630	1.6	< 0.1	18	0.009	< 0.1	< 0.01	5.4	54	14	340
M188-1	2021-05-06	300	0.54	0.39	57	41	700	1.9	< 0.1	18	0.007	< 0.1	< 0.01	5.5	61	15	350
M190	2015-11-11	300	< 0.15	0.088	130	73	849	3.4	< 0.1	14	0.011	< 0.1	< 0.01	3.5	19	39	462
M190	2015-11-25	280	< 0.15	0.081	120	48	776	3.3	< 0.1	13	0.01	< 0.1	< 0.01	3.4	20	39	460
M190	2015-11-30	290	< 0.15	0.087	120	48	777	3.6	< 0.1	12	0.009	< 0.1	< 0.01	3.5	19	38	448
M190	2016-03-08	260	< 0.15	0.087	110	58	740	3.7	< 0.1	12	0.0067	< 0.1	< 0.01	3.4	26	37	390
M190	2016-05-04	260	0.34	0.1	110	45	697	3.8	< 0.1	12	0.011	< 0.1	< 0.01	3.3	27	29	420
M190	2016-10-18	310	< 0.15	0.094	120	48	820	2.9	< 0.1	13	0.009	< 0.1	< 0.01	3.6	24	45	458
M190	2017-05-04	260	0.15	0.11	100	57	740	3	< 0.1	12	0.009	< 0.1	< 0.01	3.6	27	33	424
M190	2017-10-18	330	< 0.15	0.082	110	36	740	3.3	< 0.1	11	0.007	< 0.1	< 0.01	3.4	21	31	415
M190	2018-05-17	260	< 0.15	0.074	95	45	680	3	< 0.1	11	0.005	< 0.1	< 0.01	3.5	25	26	550
M190	2018-10-15	290	0.16	0.086	110	37	690	3.6	< 0.1	11	0.007	< 0.1	< 0.01	3.5	23	38	405
M190	2019-05-02	230	0.16	0.073	91	43	640	3.3	< 0.1	9.5	0.005	0.39	< 0.01	3.3	20	22	390
M190	2019-10-30	280	< 0.15	0.092	110	47	750	3.7	< 0.1	12	0.007	< 0.1	< 0.01	3.6	23	29	385
M190	2020-04-07	220	< 0.15	0.062	94	44	600	2.7	< 0.1	9.6	0.005	< 0.1	< 0.01	3.3	22	27	385
M190	2020-10-28	300	0.17	0.13	130	80	840	3.2	< 0.1	15	0.007	< 0.1	< 0.01	4	28	34	550
M190	2021-05-06	230	< 0.15	0.059	97	45	650	3.1	< 0.1	9.9	0.005	< 0.1	< 0.01	3.4	23	32	350
M192	2016-03-08	350	2.32	1.3	83	580	2600	2.1	< 0.1	57	0.041	< 0.1	0.01	19	340	2.3	1410

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
M192	2016-03-21	340	2.22	1.4	85	580	2600	2.2	< 0.1	60	0.037	< 0.1	< 0.01	20	360	8	1270
M192	2016-05-06	330	2.37	1.3	81	580	2620	2.5	< 0.1	57	0.035	< 0.1	< 0.01	19	320	2	1390
M192	2016-09-13	320	2.37	1.3	100	640	2700	2.6	< 0.1	64	0.069	< 0.1	< 0.01	21	340	5.2	1550
M192	2016-10-18	320	2.27	1.3	95	650	2700	2.4	< 0.1	68	0.033	< 0.1	< 0.01	21	350	11	1540
M192	2017-05-04	430	2.16	1.8	99	580	2900	3.7	< 0.1	70	0.042	< 0.1	< 0.01	22	360	2.6	1510
M192	2018-05-15	530	2.44	2	89	560	2700	3.9	< 0.1	62	0.026	< 0.1	< 0.01	20	350	14	1300
M192	2018-10-17	500	2.28	2	92	580	2800	4	< 0.1	62	0.022	< 0.1	< 0.01	21	350	12	1370
M192	2019-04-10	540	2.48	2.2	99	580	2900	4	< 0.1	67	0.018	< 0.1	< 0.01	22	400	< 1	1510
M192	2019-10-29	490	2.4	2	100	650	3000	4.4	0.13	66	0.034	< 0.1	< 0.01	21	410	1.3	1560
M192	2020-04-08	550	2.42	2.2	92	610	2900	3.8	0.17	64	0.024	< 0.1	< 0.01	22	400	1.1	1490
M192	2020-10-29	610	2.31	2.1	83	480	2600	4.2	< 0.1	55	0.018	< 0.1	< 0.01	20	370	1.2	1400
M192	2021-05-04	650	2.16	2.3	75	410	2400	4.3	0.11	49	0.022	< 0.1	< 0.01	19	370	1.4	1150
OW1	1994-07-06	350	5.3	0.93	36.7	39.1	750		0.06	24.2	ND	ND	ND	10.6	118	27.3	
OW1	1994-11-25	450	1.2		47.5	71.7	1100		0.023	32.5		ND	ND	10.4	170	56.4	
OW1	1995-04-20	447	1.48		48	53	1034		0.02	33		ND	ND	12	139	56	
OW1	1995-11-02	430	9.94			48	987					0.21	ND			41	
OW1	1995-11-03				35				0.08	24				12	115		
OW1	1996-04-01	468	2.81		48	48	1044	2.5	0.15	40		ND	ND	13	140	29	
OW1	1996-11-01	454	1.62		46	53	1017		0.06	40		ND	ND	13	133	39	
OW1	1997-05-01	417	1.49		46	56	995	ND	0.03	32		ND	ND	12	131	61	
OW1	1998-05-08	412	2.34		44	71	1020	2.9	0.08	33		ND	ND	13	137	41	
OW1	1998-11-18	470	2.53		56	56	1080		0.08	35		ND	ND	14	144	39	
OW1	1999-05-10	428	1.75		46	52	1020		0.02	33		ND	ND	12	165	57	
OW1	1999-12-02	437	1		45	57	1130	1.4	ND	33		ND	ND	13	149	55	
OW1	2000-05-25	394	0.9			58	1040	5.6				ND	ND			75	
OW1	2000-05-26				48				0.01	33				12	139		
OW1	2000-11-21	460	2.11		42	51	1020	3.1	0.2	33		ND	ND	13	135	49	
OW1	2001-05-15	410	1.69		43	58	1030	2.8	0.03	34		ND	ND	14	139	73	
OW1	2001-12-01	443	3.7		43	53	1050	2.1	0.02	31		ND	ND	13	130	49	
OW1	2002-05-29	438	1.28		43	58	1010	0.9	0.02	31		ND	ND	13	128	44	
OW1	2002-11-21	490	6.02		52	58	1160	3.7	0.04	38		ND	ND	14	162	55	
OW1	2003-05-27	446	3.83		45	58	1060	4.5	0.05	31		< 0.1	< 0.1	14	139	57	
OW1	2003-10-23	466	7.64		44	69	1100	5.2	0.02	31		< 0.1	< 0.1	18	146	55	
OW1	2004-05-05	416	2.45		44	51	1010	1.5	0.06	30		0.12	< 0.1	12	127	42	
OW1	2004-11-11	489	12.5		54	79	1140	4.9	0.04	33		< 0.1	< 0.1	16	135	47	
OW1	2005-05-03	448	1.38		48	60	1010	< 0.5	0.03	30		< 0.1	< 0.1	13	129	41	
OW1	2005-11-01	442	0.55		49	62	1030	1.3	0.03	33		< 0.1	< 0.1	14	145	46	
OW1	2006-05-31	449	1.31	0.9	44	56	1030	1.2	< 0.03	30	< 0.01	< 0.1	< 0.1	12	128	50	670
OW1	2006-11-16	425	2.59		52	57	1060	1.6	0.04	35		< 0.1	< 0.1	14	145	54	
OW1	2007-04-20	469	2.27		44	56	1070	1.6	< 0.03	30		< 0.1	< 0.1	12	134	30	
OW1	2007-10-17	434	1.56	< 3	47	57	1030	1.5	0.04	32	0.01	< 0.1	< 0.1	13	135	44	
OW1	2008-04-30	448	1.34		45	56	1050	1.2	< 0.1	32		< 0.1	< 0.01	13	140	39	
OW1	2008-11-18	445	4.16		42	55	1110	2.3	< 0.1	30		< 0.1	< 0.01	13	130	73	
OW1	2009-06-17	468	1.91		41	54	1060	4.2	< 0.1	28		< 0.1	< 0.01	12	130	32	
OW1	2009-11-25	415	2.17		45	57	1060	2.3	< 0.1	31		< 0.1	< 0.01	13	130	64	
OW1	2010-05-04	393	1.19		30	57	995		< 0.1	20		< 0.1	< 0.01	8.4	81	48	
OW1	2013-04-23	310	8.51	0.19	25	38	738	1.4	0.17	7.9	0.13	< 0.1	< 0.01	8.7	29	4	406
OW1	2013-10-23	460	6.72	1.1	46	45	1100	6.2	< 0.1	32	0.03	< 0.5	< 0.05	14	160	53	586
OW1	2014-05-07	440	2.75	1.1	43	47	1040	2	< 0.1	28	0.008	< 0.1	< 0.01	13	140	38	570
OW1	2014-10-23	470	2.97	1.2	42	45	1100	2.7	< 0.1	30	0.0074	< 0.1	< 0.01	12	160	52	606
OW1	2015-04-22	420	1.73	1.2	40	49	1030	2.1	< 0.1	31	0.0051	< 0.1	< 0.01	13	140	45	596
OW1	2015-11-25	410	1.67	1.1	44	55	1030	1.6	< 0.1	31	0.0073	< 0.1	< 0.01	13	140	59	604
OW1	2016-05-03	440	1.3	0.99	43	62	974	1.7	< 0.1	31	0.0027	< 0.1	< 0.01	12	130	13	516
OW1	2016-10-20	410	1.54	1	44	49	1000	2.3	< 0.1	33	0.006	< 0.1	< 0.01	12	140	70	588
OW1	2017-05-03	420	1.55	1.2	42	55	1100	1.7	< 0.1	30	0.003	< 0.1	< 0.01	12	140	53	658
OW1	2017-10-17	490	2.92	1.2	49	49	1100	4.9	< 0.1	31	0.15	< 0.1	< 0.01	14	140	39	605
OW1	2018-05-15	470	2.95	1.2	46	62	1100	2.4	< 0.1	31	0.046	< 0.1	< 0.01	13	140	52	545
OW1	2018-10-15	440	3.94	1.1	43	60	1100	3	< 0.1	32	0.078	< 0.1	< 0.01	13	140	51	600

Richmond Landfill - Historical Results (Groundwater Monitors)

Location	Date	Alkalinity mg/L	Ammonia mg/L	Boron mg/L	Calcium mg/L	Chloride mg/L	Conductivity µS/cm	Dissolved Organic Carbon mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Nitrate mg/L	Nitrite mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L
General and Inorganic Parameters																	
OW1	2019-04-30	410	1.53	1.1	45	61	1000	2	< 0.1	32	0.007	< 0.1	< 0.01	13	130	47	620
OW1	2019-10-29	400	3.74	0.95	45	58	1100	2.5	< 0.1	30	0.088	< 0.1	< 0.01	13	140	77	610
OW1	2020-04-14	420	1.34	1	44	71	1000	1.3	< 0.1	32	0.007	< 0.1	< 0.01	13	140	4.9	590
OW1	2020-10-27	420	3.79	1	45	59	1100	2.6	< 0.1	32	0.042	< 0.1	< 0.01	13	140	64	685
OW1	2021-05-04	450	1.77	1.3	42	49	1100	2.5	< 0.1	30	0.01	< 0.1	< 0.01	12	150	61	585
OW4	1994-07-06	920	1.7	1.34	147	379	2800		8.9	101	0.37	ND	ND	21.9	270	11.5	
OW4	1994-11-25	960	1.6		331	750	3600		19.7	170		ND	ND	14.4	250	ND	
OW4	1995-04-20	1059	1.21		359	803	3852		8.61	200		ND	ND	12	175	8	
OW4	1995-11-02	896	2.18			761	3583					ND	ND			ND	
OW4	1995-11-03				288				23.3	185				19	225		
OW4	1996-04-01	1050	2		283	728	3616	48.9	8.5	187		ND	ND	17	306	ND	
OW4	1996-11-01	1017	1.49		248	658	3348		15.3	153		ND	ND	13	224	10	
OW4	1997-05-01	1047	1.56		205	717	3209	38.5	12.3	153		ND	ND	14	231	15	
OW4	1998-05-08	836	1.14		135	510	2970	ND	9.75	136		ND	ND	11	255	16	
OW4	1998-11-18	1010	2.07		254	557	3160		6.36	155		0.15	ND	17	289	8	
OW4	1999-05-10	1050	2.57		223	662	3430		8.86	142		ND	ND	16	406	3	
OW4	1999-12-02	476	1.15		206	596	3550	48.5	4.38	138		0.1	ND	16	419	14	
OW4	2000-05-26	1070	1.05		202	800	3560	62.8	16.5	135		0.11	ND	16	364	3	
OW4	2000-11-21	1080	2.05		243	749	3650	55.2	12.2	161		ND	ND	14	377	2	
OW4	2001-05-15	1080	1.37		138	663	3600	50.5	17.4	162		ND	ND	15	367	2	
OW4	2001-12-01	1170	1.74		247	721	3940	53.2	6.72	147		0.1	ND	15	451	9	
OW4	2002-05-29	1160	2.1		235	850	4130	63	14.6	139		ND	ND	13	489	4	
OW4	2002-11-21				162				10.7	144				14	470		
OW4	2002-11-22	1160	1.52			631	3760	57.5				ND	ND			9	
OW4	2003-05-27	1160	1.53		197	677	3760	51.8	14.3	136		< 0.1	< 0.1	15	526	7	
OW4	2003-10-23	1120	1.53		177	575	3530	44.2	6.22	121		< 0.1	< 0.1	23	473	14	
OW4	2004-05-05	1130	1.51		200	683	3890	55.7	13.6	128		0.19	< 0.1	16	467	10	
OW4	2004-11-11	1020	0.78		221	620	3590	45.6	4.52	137		< 0.1	< 0.1	13	415	14	
OW4	2005-05-03	1100	1.15		193	581	3450	39	10.3	110		< 0.1	< 0.1	12	358	13	
OW4	2005-11-01	1120	1.1		214	566	3260	43.8	13.5	136		< 0.1	< 0.1	15	430	13	
OW4	2006-05-31	1220	1.22	1.39	183	568	3690	50.9	7.38	113	0.26	< 0.1	< 0.1	13	456	10	2400
OW4	2006-11-16	1120	1.19		176	488	3420	39.1	8.11	111		< 0.1	< 0.1	13	430	11	
OW4	2007-04-19	1160	1.12	< 3	178	527	3550	43.2	10.9	113	0.26	< 0.1	< 0.1	12	434	12	
OW4	2007-10-17	1080	1.15	< 3	160	501	3280	40.2	14.6	98	0.27	< 0.1	< 0.1	12	366	15	
OW4	2008-04-30	1190	1.42		170	540	3640	45.5	11	120		< 0.1	< 0.01	13	490	6	
OW4	2008-11-18	1180	1.37		170	530	3590	43.2	1.2	120		< 0.1	< 0.01	12	400	4	
OW4	2009-06-18	1180	1.37		170	550	3630	47.3	13	120		0.4	< 0.01	14	440	7	
OW4	2009-11-25	1080	1.19		170	450	3230	37.1	2.5	110		< 0.1	< 0.01	12	400	1	
OW4	2010-05-05	998	1.1		170	540	3380		15	120		< 0.1	< 0.01	13	430	4	
OW4	2013-04-23	1100	3.58	1.3	140	470	3330	35.9	8.7	90	0.17	< 0.1	< 0.01	14	400	< 1	1670
OW4	2013-10-23	1100	1.38	1.1	180	540	3520	53	12	120	0.22	< 0.1	< 0.01	13	500	3	1880
OW4	2014-05-07	1100	1.41	1.1	150	470	3370	44	11	99	0.17	< 0.1	< 0.01	13	450	22	1950
OW4	2014-10-23	1000	0.69	0.89	150	440	3120	42	9.5	97	0.2	< 0.1	< 0.01	8.7	410	16	1790
OW4	2015-04-23	1000	1.42	1.6	130	420	3180	41	6.7	86	0.15	< 0.1	< 0.01	13	470	30	1860
OW4	2015-11-26	980	1.34	1	150	420	3140	39	6.8	100	0.17	< 0.1	< 0.01	13	470	37	1830
OW4	2016-05-04	1000	1.4	1.3	130	410	3100	38	13	85	0.15	< 0.1	< 0.01	12	440	41	1720
OW4	2016-10-20	930	0.84	0.71	130	340	2700	35	7	87	0.16	< 0.1	< 0.01	10	370	44	1570
OW4	2017-05-03	1000	1.34	1.3	150	510	3400	45	11	100	0.16	< 0.1	< 0.01	14	480	33	1980
OW4	2017-10-17	1000	1.14	0.92	160	550	3100	44	2.4	100	0.18	< 0.1	< 0.01	9.4	410	34	1920
OW4	2018-05-15	1100	1.03	1.5	170	570	3600	43	11	100	0.16	< 0.1	< 0.01	11	480	32	1870
OW4	2018-10-15	960	1.31	1	150	500	3100	37	8.4	96	0.16	0.53	< 0.01	11	400	29	1700
OW4	2019-04-30	960	1.02	1.5	150	500	3200	34	8.1	92	0.15	< 0.1	< 0.01	12	440	20	1820
OW4	2019-10-29	1000	1.33	1.1	160	490	3300	47	9.2	100	0.17	< 0.1	< 0.01	13	470	1.3	1910
OW4	2020-04-14	1000	1.2	1.6	130	430	3200	33	9.9	90	0.14	0.1	0.01	13	450	1	1730
OW4	2020-10-27	1100	1.11	1.1	160	430	3200	42	9.7	100	0.17	0.1	0.01	12	420	1	1840
OW4	2021-05-04	1100	1.13	1.6	140	400	3100	34	10	88	0.14	0.1	0.01	12	450	1	1610













Richmond Landfill - Historical Results (Groundwater Monitors)

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			
INTERMEDIATE BEDROCK GROUNDWATER FLOW ZONE																															
M5-3	1991-07-01		ND		ND		ND	ND	ND	ND	ND			0.003	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	0.004	ND	ND	ND	ND		
M5-3	1995-04-21													ND						ND	ND	ND			ND						
M5-3	1996-04-01													0.0008						ND	ND	ND			ND						
M5-3	1997-05-01													0.0021						ND	ND	ND			ND						
M5-3	1998-05-08													0.0029						ND	ND	ND			ND						
M5-3	1999-05-12													0.0006						ND	ND	ND			ND						
M5-3	2000-05-30													0.0016						ND	ND	ND			ND						
M5-3	2001-05-15													ND						ND	ND	ND			ND						
M5-3	2002-06-18													ND						ND	ND	ND			ND						
M5-3	2003-05-27													0.0011						< 0.0005	< 0.001	< 0.0005			< 0.0005						
M5-3	2004-05-05													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015						
M5-3	2005-05-03													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015						
M5-3	2006-06-06													< 0.0004					< 0.004	< 0.0005	< 0.001	< 0.0005			< 0.0005				< 0.0002		
M5-3	2007-04-19													0.0007						< 0.0005	< 0.001	< 0.0005			< 0.0005						
M5-3	2008-04-29													0.0005						< 0.0001	< 0.0001	0.0001			< 0.0002						
M5-3	2009-06-17													< 0.0001						< 0.0001	< 0.0001	< 0.0001			0.0003						
M5-3	2010-05-04													< 0.0001						< 0.0001	< 0.0001	< 0.0001			< 0.0002						
M5-3	2011-05-04	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0002		
M5-3	2011-10-25													< 0.0002																	
M5-3	2012-04-24	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2012-10-22	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0001	< 0.0001				< 0.0001	< 0.0005	< 0.0001	< 0.0001	0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	
M5-3	2013-04-23	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.01	< 0.01	< 0.0002	< 0.01	< 0.01		< 0.005	< 0.005	< 0.01	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.01	
M5-3	2013-10-21	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002		< 0.0002	< 0.0002		< 0.0001	< 0.0001	< 0.002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00011	< 0.0001	< 0.0002	< 0.0001	0.0052	< 0.0001	< 0.0001	< 0.0001	< 0.0002		
M5-3	2014-05-06	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.0005	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.001	
M5-3	2015-04-22	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00015	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00015	0.00015	< 0.0002	< 0.0001	0.00014	< 0.0002	< 0.0001	0.00027	< 0.0001	< 0.0001	< 0.0002
M5-3	2015-11-25	< 0.0005	< 0.00025	< 0.0005	< 0.0005	< 0.00025	< 0.00025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		< 0.0005	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0013	< 0.00025	0.00026	< 0.00025	< 0.0005	< 0.00025	< 0.0005	< 0.00025	< 0.0005	< 0.00025	< 0.00025	< 0.0005	
M5-3	2016-05-03	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.0005	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001		
M5-3	2016-10-20	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00027	< 0.0001	< 0.005	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00019	0.00014	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2017-05-03	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.0005	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.001	
M5-3	2017-10-17	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00012	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2018-05-15	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00015	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	0.00012	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2018-10-15	< 0.004	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004		< 0.002	< 0.002	< 0.004	< 0.01	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002	< 0.004	< 0.002	< 0.004	< 0.002	< 0.002	< 0.002	< 0.004		
M5-3	2019-04-30	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.0002	< 0.0001	< 0.002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00012	0.00019	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2019-10-29	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00042	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00014	0.00023	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2020-04-14	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00011	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2020-10-27	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00016	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	0.00016	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M5-3	2021-05-04	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002</																							

Richmond Landfill - Historical Results (Groundwater Monitors)

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		
Volatile Organic Compounds (VOCs)																														
M6-3	2019-04-30	< 0.005	< 0.0025	< 0.005	< 0.005	< 0.0025	< 0.0025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.3	< 0.0025	< 0.0025	< 0.01	< 0.013	< 0.0025	< 0.013	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.0025	< 0.005	< 0.0025	< 0.0025	< 0.0025	< 0.005	
M6-3	2019-10-29	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00022	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.33	0.00044	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	0.00056	0.0002	< 0.0002	< 0.0001	0.0019	< 0.0001	< 0.0001	< 0.0002	
M6-3	2020-04-14	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00019	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.3	0.0011	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	0.00012	0.00092	0.00034	< 0.0002	< 0.0001	0.0036	< 0.0001	< 0.0001	< 0.0002	
M6-3	2020-10-27	< 0.0005	< 0.00025	< 0.0005	< 0.0005	< 0.00025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.33	0.00089	< 0.00025	< 0.0005	< 0.0013	< 0.00025	< 0.0013	< 0.00025	0.0016	0.00045	< 0.0005	0.0045	< 0.00025	< 0.00025	< 0.00025	< 0.0005	
M6-3	2021-05-04	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.14	< 0.0001	< 0.0001	< 0.0002	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0002	
M9-2	1991-07-01	ND	ND	ND	0.002	ND	0.002	ND	ND	0.001	0.002		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1994-07-01													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1995-04-21													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1996-04-01													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1997-05-01													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1998-05-08													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	1999-05-11													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	2000-05-25	ND		ND	ND							ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	2001-05-14													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	2002-06-18													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M9-2	2003-05-29													< 0.0005						< 0.0005	< 0.001	< 0.0005			< 0.0005					
M9-2	2004-05-04													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015					
M9-2	2005-05-05													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015					
M9-2	2006-05-31										< 0.0004			< 0.0005					< 0.004	< 0.0005	< 0.001	< 0.0005			< 0.0005			< 0.0002		
M9-2	2007-04-20													< 0.0005						< 0.0005	< 0.001	< 0.0005			< 0.0005			< 0.0005		
M9-2	2008-04-29													0.0005						< 0.0001	< 0.0001	< 0.0001			< 0.0002					
M9-2	2009-06-15	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.002	0.0004	< 0.0002	< 0.0002		< 0.0002	< 0.0002		0.0001	< 0.0001	0.065	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.0004	
M9-2	2010-05-05													< 0.0001						< 0.0001	< 0.0001	< 0.0001			< 0.0002					
M9-2	2011-08-04	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.0009	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		< 0.0001	< 0.0001	0.031	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0002	
M9-2	2011-11-15	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.0009	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		< 0.0001	< 0.0001	0.042	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.0006	
M9-2	2012-02-23	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.0014	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		< 0.0001	< 0.0001	0.035	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0003	
M9-2	2012-05-09	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.0016	0.00033	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.02	< 0.0001	< 0.0001	0.034	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00026	
M9-2	2013-04-30												0.0291																	
M9-2	2013-10-18												0.0355																	
M9-2	2015-11-24	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00058	0.00012	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.026	0.00093	< 0.0001	0.042	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00089
M9-2	2016-05-04	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.0006	0.00016	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.018	< 0.0001	< 0.0001	0.026	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00048	
M9-2	2016-10-19	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00024	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.022	0.0005	< 0.0001	0.029	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.0006	
M9-2	2017-05-02	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00062	0.00019	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.015	< 0.0001	< 0.0001	0.031	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00051	
M9-2	2017-10-19	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00039	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.018	0.00016	< 0.0001	0.032	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00054	
M9-2	2018-05-18	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.00055	0.00014	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.015	< 0.0001	< 0.0001	0.017	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00027	
M9-2	2018-10-15	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.0003	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.018	0.00016	< 0.0001	0.023	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001	0.00033	
M9-2	2019-05-02	< 0.0002	< 0.0001	< 0.0002	< 0.0002	0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0087	0.00019	< 0.0001	0.0019	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0002	< 0.0001	< 0.0001		

























Richmond Landfill - Historical Results (Groundwater Monitors)

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
Volatile Organic Compounds (VOCs)																												
OW4	1994-11-25													ND						ND	ND	ND			ND			
OW4	1995-04-21													ND						ND	ND	ND			ND			
OW4	1995-11-03													ND						ND	ND	ND			ND			
OW4	1996-04-01													ND						ND	ND	ND			ND			
OW4	1996-11-01													ND						ND	ND	ND			ND			
OW4	1997-05-01													ND						ND	ND	ND			ND			
OW4	1997-11-01													ND						ND	ND	ND			ND			
OW4	1998-05-08													ND						ND	ND	ND			ND			
OW4	1998-11-18													ND						ND	ND	ND			ND			
OW4	1999-05-10													ND						ND	ND	ND			ND			
OW4	1999-12-02													ND						ND	ND	ND			ND			
OW4	2000-05-26													ND						ND	ND	ND			ND			
OW4	2000-11-21													ND						0.0116	ND	ND			ND			
OW4	2001-05-15													ND						ND	ND	ND			ND			
OW4	2001-12-01													ND						ND	ND	ND			ND			
OW4	2002-05-29													ND						ND	ND	ND			ND			
OW4	2002-11-21													ND						ND	ND	ND			ND			
OW4	2003-05-27													< 0.0005						< 0.0005	< 0.001	< 0.0005			< 0.0005			
OW4	2003-10-23													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015			
OW4	2004-05-05													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015			
OW4	2004-11-11													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015			
OW4	2005-05-03													< 0.0013						0.0024	< 0.0034	< 0.0027			< 0.0015			
OW4	2005-11-01													< 0.0013						< 0.0016	< 0.0034	< 0.0027			< 0.0015			
OW4	2006-05-31												< 0.0004	< 0.0005					< 0.004	< 0.0005	< 0.001	< 0.0005			< 0.0005			< 0.0002
OW4	2006-11-16													< 0.0005						< 0.0005	< 0.001	< 0.0005			< 0.0005			
OW4	2007-04-19													< 0.0005						< 0.0005	< 0.001	< 0.0005			< 0.0005			
OW4	2007-10-17													< 0.0005						0.0008	< 0.001	< 0.0005			0.0005			
OW4	2008-04-30													0.0006						0.0071	< 0.0002	< 0.0002			0.011			
OW4	2008-11-18													0.0013						0.012	< 0.0003	< 0.0003			0.012			
OW4	2009-06-18													0.0003						0.0024	0.0009	0.0004			0.01			
OW4	2009-11-25													0.0011						0.0088	0.0005	0.0002			0.0091			
OW4	2010-05-05													0.0008						0.0097	0.0005	< 0.0005			0.021			
OW4	2013-04-23	< 0.002	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.0002	< 0.002	< 0.002		< 0.001	< 0.001	< 0.002	< 0.005	< 0.001	< 0.005	0.014	< 0.001	< 0.001	< 0.002	< 0.001	0.0046	< 0.001	< 0.001	< 0.002
OW4	2013-04-30												0.134															
OW4	2013-10-23	< 0.004	< 0.002	< 0.004	< 0.004	< 0.002	< 0.002	< 0.004	< 0.004		< 0.004	< 0.004	0.123	< 0.002	< 0.002	< 0.004	< 0.01	< 0.002	0.1	0.01	< 0.002	< 0.002	< 0.004	< 0.002	< 0.004	< 0.002	< 0.002	< 0.004
OW4	2014-05-07	< 0.0004	< 0.0002	< 0.0004	< 0.0004	< 0.0002	< 0.0002	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004		0.00034	0.001	< 0.0004	< 0.001	< 0.0002	< 0.001	0.0023	< 0.0002	< 0.0002	0.00043	< 0.0002	0.0009	< 0.0002	< 0.0002	< 0.0004
OW4	2015-04-23	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002		0.00087	0.0019	< 0.001	< 0.0005	< 0.0001	< 0.0005	0.0028	0.00015	0.00012	< 0.0002	< 0.0001	0.00032	< 0.0001	< 0.0001	< 0.0002
OW4	2015-11-26	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.074	0.0004	0.00095	< 0.0002	< 0.0005	< 0.0001	< 0.0005	0.0043	0.00015	0.00011	< 0.0002	< 0.0001	0.00032	< 0.0001	< 0.0001	< 0.0002
OW4	2016-05-04	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.087	0.00089	0.00022	< 0.0002	< 0.0005	< 0.0001	< 0.0005	0.0035	0.00014	0.00014	< 0.0002	< 0.0001	0.0003	< 0.0001	< 0.0001	< 0.0002
OW4	2016-10-20	< 0.002	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.047	< 0.001	< 0.001	< 0.02	< 0.005	< 0.001	< 0.005	0.0061	< 0.001	< 0.001	< 0.002	< 0.001	< 0.002	< 0.001	< 0.001	< 0.002
OW4	2017-05-03	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.11	0.00086	0.0017	< 0.001	< 0.0025	< 0.0005	< 0.0025	0.0025	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.001
OW4	2017-10-17	< 0.002	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.12	0.001	0.0021	< 0.002	< 0.005	< 0.001	< 0.005	0.0038	< 0.001	< 0.001	< 0.002	< 0.001	< 0.002	< 0.001	< 0.001	< 0.002
OW4	2018-05-15	< 0.0005	< 0.00025	< 0.0005	< 0.0005	< 0.00025	< 0.00025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.12	0.00031	0.00032	< 0.0005	< 0.0013	< 0.00025	< 0.0013	0.0052	0.00035	< 0.00025	< 0.0005	< 0.00025	< 0.0005	< 0.00025	< 0.00025	< 0.0005
OW4	2018-10-15	< 0.002	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.081	< 0.001	< 0.001	< 0.002	< 0.005	< 0.001	< 0.005	0.0046	< 0.001	< 0.001	< 0.002	< 0.001	< 0.002	< 0.001	< 0.001	< 0.002
OW4	2019-04-30	< 0.005	< 0.0025	< 0.005	< 0.005	< 0.0025	< 0.0025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.089	< 0.0025	< 0.0025	< 0.025	< 0.013	< 0.0025	< 0.013	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.0025	< 0.005	< 0.0025	< 0.0025	< 0.005
OW4	2019-10-29	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.1	0.00062	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0025	0.0068	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.001
OW4	2020-04-14	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.082	< 0.0005	0.00058	< 0.001	< 0.0025	< 0.0005	< 0.0025	0.0028	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.001
OW4	2020-10-27	< 0.0005	< 0.00025	< 0.0005	< 0.0005	< 0.00025	< 0.00025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.08	0.0005	0.00047	< 0.0005	< 0.0013	< 0.00025	< 0.0013	0.0056	< 0.00025	< 0.00025	0.00077	< 0.00025	0.0035	< 0.00025	< 0.00025	< 0.0005
OW4	2021-05-04	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.059	< 0.0005	< 0.0005	< 0.001	< 0.0025	< 0.0005	< 0.0025	0.0016	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.001