NAMMOONA LANDFILL FACILITY MONITORING RESULTS
Environmental Protection
Licence No. 5872
Licensee: Richmond Valley Council

Richmond Valley Council

EPA POINT 3:	Leachate Pond Waters																																													
Parameter	**Frequency**	**unit of measure**																																												
Date/ Time sampled			**2/12/2020 14:30**	**1/09/2020 13:30**	**15/06/2020 13:30**	**4/03/2019 12:30**	**4/12/2019 14:45**	**11/09/2019 13:30**	**18/06/2019 12:30**	**21/03/2019 15:00**	**14/12/2018 10:00**	**19/09/2018 12:45**	**14/06/2018 16:30**	**27/03/2018 14:15**	**12/12/2017 10:35**	**12/09/2017 14:25**	**15/06/2017 16:30**	**8/03/2017 12:48**	**12/12/2016 9:45**	**22/09/2016 10:10**	**30/06/2016 10:15**	**15/03/2016 11:15**	**3/12/2015 11:30**	**9/09/2015 13:30**	**17/07/2015 9:15**	**31/03/2015 14:00**	**19/12/2014 10:05**	**29/08/2014 7:50**	**6/06/2014 8:35**	**5/03/2014 12:55**														
Sampled by			Jesse Munro	Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Jesse Munro	Mark Bayley	Jesse Munro	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley																
Date results received/ Date results published			10/02/2020 11/02/2020	28/09/2020 8/10/2020	26/06/2020 3/07/2020	26/03/2020 30/03/2020	24/1/2020 3/2/2020	15/10/2019 17/10/2019	15/07/2019 17/07/2019	10/04/2019 12/04/2019	8/01/2019 10/1/2019	15/10/2018 26/10/2018	30/07/2018 7/08/2018	2/05/2018 3/05/2018	19/01/2018 25/1/2018	23/10/2017 26/10/2017	5/07/2017 17/7/2018	20/04/2017 15/05/2017	16/01/2017 25/01/2017																												
Ammonia	Quarterly	mg/L	7	32.3	33.7	7.79	164	1.1	12.7	10.6	33.7	42.7	68.2	17.7	10.7	109	15.2	25.1	52.3	50.2	59.6	22.4	42.2	78.4	60.664	24.34	3.233	16.8	84.55	4.65																		
Arsenic	Quarterly	mg/L	0.034	0.014	0.017	0.014	0.075	0.017	0.013	0.012	0.038	0.022	0.01	0.009	0.016	0.014	<0.001	0.025	0.025	0.011	0.009	0.014	0.01	0.007	0.009	0.009	0.035	0.012	0.016	0.025																		
Bicarbonate	Quarterly	mg/L	1022	895	900	435	1920	540	688	320	930	1150	980	500	560	1140	400	1000	870	780	800	680	810	970	780	690	490	460	910	540																		
Calcium	Quarterly	mg/L	25.1	48	51	38	195	32.9	72	106	40.7	55	66	32	43	88	48	33	77	55	57.1	52	67.6	56	61.3	52.9	24.9	61	78	40																		
Chloride	Quarterly	mg/L	3719	1238	1440	533	2250	2074	1979	1330	2251	2080	1213	865	875	1300	619	2353	1605	921	1024	1150	834	892	696	722	1363	811	1015	1308																		
Chromium (total)	Quarterly	mg/L	0.023	0.011	0.01	0.004	0.071	0.019	0.014	0.007	0.023	0.028	0.014	0.006	0.01	0.025	0.004	0.02	0.024	0.014	0.012	0.012	0.014	0.021	0.009	0.009	0.006	0.004	0.011	0.009																		
Conductivity	Quarterly	µS/cm	11700	4953	4030	2970	9920	7860	6665	6330	9127	8270	5435	3380	4156	7062	2992	7654	7395	4490	4820	5310	4648	4870	3180	3520	4710	2750	4900	5310																		
Copper	Quarterly	mg/L	0.002	0.001	<0.001	0.003	0.009	0.005	0.002	0.008	<0.001	0.002	0.001	0.001	0.001	0.003	0.003	<0.01	0.002	0.001	<0.001	<0.001	0.002	0.005	0.001	0.001	0.002	0.002	0.001	0.003																		
Dissolved Organic Carbon	Quarterly	mg/L	177	144	126	74.3	359	282	178	122	297.9	230	202	97	152	250	95.7	246	190	132	164.1	150	125	154	99.5	108	162.9	118	116	153																		
Dissolved Oxygen	Quarterly	mg/L	13.2	14.46	10.17	19.2	7.2	15.7	0.99	--	5.45	--	21.9	11.2	4.8	14.5	9.6	16.5	19.2	10.7	5.2	6.61	2.65	6.9	8.9	7.8	10.5	5.98	6.85	7.65																		
Magnesium	Quarterly	mg/L	139	108	94	69	176	92.3	106	104	124	166	95	60	69	123	51	114	118	75	79	89	79.2	80	70.8	68.1	102	60	100	98																		
Nitrogen (total)	Quarterly	mg/L	41.5	53.8	46.7	23.7	272	52	42.1	43.8	67.8	64.6	94.9	36.3	28.8	117	36.1	67.9	93.6	59.4	74.6	41.3	58.7	90.9	89.68	47.18	30.7	31.8	94.8	43.62																		
Organochlorine Pesticides	Quarterly	mg/L	<0.0002	<0.0002	<0.1	<0.0001	0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.2	<0.2	<0.2	<0.2	0	0	0	0	<0.2	<0.2	<0.2																		
Organophosphate Pesticides	Quarterly	mg/L	<0.0002	<0.0002	<0.2	<0.0005	<0.0005	<0.0002	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.2	<0.2	<0.2	<0.2	0	0	0	0	<0.2	<0.2	<0.2																		
pH	Quarterly	pH	9.47	8.89	8.52	8.78	6.76	9.89	8.94	9.14	8.48	8.72	8.75	8.78	8.59	7.69	8.23	8.94	8.73	8.61	8.46	8.46	8.03	8.58	8.97	8.32	9.99	8.61	7.33	8.7																		
Phenols	Quarterly	mg/L	0.011	0.0055	<0.0005	<0.0005	<0.0005	0.096	0.0007	<0.0005	14	<0.005	<0.0005	<0.010	<0.002	-	<0.002	<0.001	<0.002	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																		
Phosphorus	Quarterly	mg/L	2.07	0.95	0.53	0.98	5.73	3.68	2.61	0.54	1.65	0.63	1.41	0.65	1.0	0.8	0.67	1.66	2.2	0.53	0.389	0.42	0.4	0.34	2.48	0.59	1.07	1	1.672	2.62																		
Potassium	Quarterly	mg/L	278	159	132	78	275	229	209	181	279	300	158	106	133	218	90	254	241	140	141	178	129	145	112	116	188	1.36	100	152																		
Semi-volotile organic carbons	Quarterly	mg/L	<0.01	<0.05	ND	<0.05	0.25	<0.0005	<0.0005	<0.0005	<0.05	<0.05	<0.0005	<0.010	<0.002	<1	<5	<1	10	<10	<10	<20	<10	none detected	none detected	nil	none detected	ND	Not detected	none detected																		
Sodium	Quarterly	mg/L	2326	920	794	482	1400	1451	1218	983	1574	1580	822	547	667	995	428	1321	1145	628	669	771	604	689	512	449	886	481	675	881																		
Sulphate	Quarterly	mg/L	58	96	35	164	65	27	225	690	52	54	<1	42	34	42	61	79	160	22	44	52	53	41	3	18	21	60	51	27																		
Total dissolved solids	Quarterly	mg/L	7950	3225	2750	1640	4950	4510	4271	4090	5940	4930	3280	2000	2470	3510	1530	4690	4,010	2465	3275	3611	2397	3312	2591	1900	3090	1745	2640	2810																		
Total petroleum hydrocarbons	Quarterly	mg/L	8.78	3.85	2.47	1.9	0.93	3.09	7.07	3.1	3.71	2.87	3	<0.050	0.227	0.524	<0.1	4.02	4.61	2070	1730	1290	1560	0.005	2970	1900	3650	5390	4680	4.07																		
Volatile organic compounds	Quarterly	mg/L	<0.01	<0.01	ND	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	171.2	<0.010	<0.001	<0.01	<0.01	<0.001	<0.001	<10	<1	<1	none detected	none detected	none detected	nil	none detected	none detected	none detected	none detected																		

EPA POINT 8	Monitoring Bore MB1																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date/ Time sampled				**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**	**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017 12:30**	**22/09/2016**	**15/03/2016 16:42**	**9/09/2015**	**31/03/2015 13:05**	**19/12/2014 9:05**	**3/09/2014 7:00**	**5/03/2014 11:40**																												
Sampled by				Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley																												
Date results received/ Date results published				28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																			
Ammonia	6 Months	0.62	mg/L	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	0.205	dry bore	dry bore	dry bore	0.409	0.271	0.047	0.177																												
Dissolved Organic Carbon	6 Months	69.6	mg/L	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	8.3	dry bore	dry bore	dry bore	16.4	14.1	23.4	2.3																												
Nitrogen (total)	6 Months	4.2	mg/L	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	0.87	dry bore	dry bore	dry bore	0.46	0.34	0.5	0.32																												
pH	6 Months	5.35-9.26	pH	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	6.91	dry bore	dry bore	dry bore	6.45	6.82	5.86	6.9																												
Potassium	6 Months	36.9	mg/L	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	6.7	dry bore	dry bore	dry bore	4.6	8.7	0.8	9.2																												
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	125.8	µg/L	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	<100	dry bore	dry bore	dry bore	<100	none detected	none detected	none detected																												
SWL (BGL) m				dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	dry bore	5.5	dry bore	dry bore	dry bore	5.44			4.8																												

EPA POINT 9	Monitoring Bore MB2																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date/ Time sampled				**1/09/2019 13:55**	**4/03/2019 14:30**	**11/09/2019 12:30**	**21/03/2019 13:20**	**19/09/2018 12:00**	**27/03/2018 13:45**	**12/09/2017 13:50**	**8/03/2017 15:40**	**22/09/2016 8:45**	**15/03/2016 10:25**	**9/09/2015 13:35**	**31/03/2015 14:30**	**19/12/2014 10:15**	**3/09/2014 8:10**	**5/03/2014 12:30**																												
Sampled by				Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley																												
Date results received/ Date results published				28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017				<100																														
Ammonia	6 Months	0.26	mg/L	0.079	0.162	0.147	0.2	0.246	0.458	0.248	0.185	0.105	0.127	0.167	0.317	0.178	0.15	44.889																												
Dissolved Organic Carbon	6 Months	63.4	mg/L	3.6	2.9	3.8	3.2	2.6	3.4	4.5	5.2	4.9	12.3	3.2	12.8	10.6	23.9	9.2																												
Nitrogen (total)	6 Months	3.3	mg/L	0.27	0.19	0.25	0.24	0.36	0.54	0.4	0.27	0.26	0.21	0.292	0.5	0.37	0.25	48.24																												
pH	6 Months	5.11-9.5	pH	6.35	6.33	6.42	6.41	6.43	6.62	5.5	7.34	6.26	6.02	6.34	6.51	6.39	6.38	6.39																												
Potassium	6 Months	9.1	mg/L	4.6	3.41	4.3	4.2	4.4	4.2	4.3	4.5	4.5	4.2	3.4	3.6	4	4.2	8.5																												
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	139.8	µg/L	<100	<100	<100	<100	<150	<100	<100	<100	<100	<100	<100	<100	none detected	none detected	520																												
SWL (BGL) m				3.69	3.79	3.89	3.89	3.57	2.7	3.6	2.1	2.73	3.3	3.45	3.3			2.7																												

EPA POINT 10	Monitoring Bore MB3																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date/ Time sampled				**1/09/2019 14:35**	**4/03/2019 12:00**	**11/09/2019 14:20**	**21/03/2019 15:20**	**19/09/2018 13:40**	**27/03/2018 13:30**	**12/09/2017 12:55**	**8/03/2017 14:05**	**22/09/2016 10:40**	**15/03/2016 12:08**	**9/09/2015 14:10**	**31/03/2015 15:10**	**19/12/2014 10:40**	**3/09/2014 8:50**	**5/03/2014 13:05**																												
Sampled by				Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley																												
Date results received/ Date results published				28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																		
Ammonia	6 Months	1.4	mg/L	0.095	0.168	0.087	0.15	4.59	7.449	0.073	0.473	0.147	2.33	0.124	2.37	0.212	0.295	3.58																												
Dissolved Organic Carbon	6 Months	45.8	mg/L	3.6	1.7	3.2	5	3.1	1.7	3	6.8	8.7	4	1.7	4.1	6.1	12.2	1.6																												
Nitrogen (total)	6 Months	2.3	mg/L	0.33	0.3	0.12	0.16	11.1	7.5	1.6	0.9	0.26	2.3	0.93	2.87	0.27	0.38	4.07																												
pH	6 Months	5.54-9.1	pH	7.3	7.3	7.38	7.32	7.8	7.49	4.76	7.34	6.6	7.38	6.73	6.89	6.61	7.09	6.75																												
Potassium	6 Months	6.9	mg/L	7	2.88	3.7	3.4	4.7	3.9	3.8	4.6	3.6	4.3	2.8	3.2	3.1	4	3.5																												
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	106.9	µg/L	<100	<100	<100	<100	<150	<100	<100	<100	<100	<100	<100	<100	none detected	none detected	none detected																												
SWL (BGL) m				1.91	2.43	2.67	2.45	1.51	0.17	0.88	0.7	0.7	1.65	1.88	1.7																														

EPA POINT 11	Monitoring Bore MB4																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled				**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**	**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017**	**22/09/2016**	**15/03/2016**	**9/09/2015**	**31/03/2015**	**19/12/2014**	**3/09/2014**	**5/03/2014**																												
Time sampled				**14:50**	**11:45**	**11:45**	**12:20**	13:55	13:30	13:15	11:38	11:00	12:30	14:45	15:40	11:00	9:30																												
Sampled by				Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Jesse Munro	Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley																												
Date results received/ Date results published				28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																		
Ammonia	6 Months	0.33	mg/L	0.049	0.098	0.034	0.09	0.07	0.128	0.113	0.063	0.068	0.058	0.035	0.07	0.16	0.031	0.077																												
Dissolved Organic Carbon	6 Months	92.9	mg/L	1.5	0.5	3	0.8	1.8	0.2	1.8	1.3	2.9	3.3	0.3	3.3	4.4	12.7	0.8																												
Nitrogen (total)	6 Months	1	mg/L	0.05	0.1	0.05	0.1	0.38	0.113	0.09	0.1	0.12	0.06	0.04	0.18	0.16	0.06	0.11																												
pH	6 Months	4.97-10.3	pH	6.79	6.72	6.81	6.79	6.9	6.81	5.37	6.97	6.63	5.79	6.61	6.45	6.72	7.41	6.72																												
Potassium	6 Months	8.6	mg/L	3.5	3.05	3.78	3.6	3.9	3.6	3.8	3.9	4	3.8	2.9	3.4	3.5	1.7	3.3																												
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	50	µg/L	<100	<100	<100	<100	<150	<100	<100	<100	<100	<100	<100	<100	none detected	none detected	none detected																												
SWL (BGL) m				1.17	1.45	1.46	1.28	0.71	surface	0.58	0.8	surface	0.09	0.42	0.2			1.6																												

EPA POINT 12	Monitoring Bore MB5-A																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled					**31/03/2015**	**19/12/2014**	**3/09/2014**	**5/03/2014**	**30/08/2013**	**6/03/2013**	**19/09/2012**	**16/08/2012**	**25/05/2012**	**20/03/2012**																															
Time sampled					13:50	9:50	7:40	12:05	10:15	12:40	10:45	9:50	16:00																																
Sampled by					Mark Bayley	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	Mark Bayley	RVC																																
Date results received																																														
Date results published																																														
Ammonia	6 Months	0.15	mg/L	**No longer sampled due to access issues - see MB5-B**	0.089	0.014	0.031	0.007	0.02	0.024	0.031	0.1	0.062	ND																																
Dissolved Organic Carbon	6 Months	40.3	mg/L		3.7	4.4	12.7	1.5	9.7	1.8	2.5	1.4	3.053	ND																																
Nitrogen (total)	6 Months	3	mg/L		0.11	0.18	0.06	0.11	0.09	0.05	0.13	0.35	0.093	ND																																
pH	6 Months	4.9-8.4	pH		6.24	5.94	7.41	6.04	6.08	8.25	6.07	6.06	7.29	ND																																
Potassium	6 Months	4.95	mg/L		1.6	1.7	1.7	1.5	1.7	1.6	2.4	1.6	3.43	ND																																
Total petroleum hydrocarbons C15-C36 Fraction	6 Months	50	µg/L		<100	none detected	none detected	none detected	none detected	<100	none detected	not detected	none detected	ND																																
SWL (BGL) m					0.5			0.6	0.5	0.6	0.8	0.7	1																																

EPA POINT 13	Monitoring Bore MB5-B																																													
Parameter	**Frequency**	**Trigger level**	**unit of measure**																																											
Date sampled				**1/09/2020**	**4/03/2020**	**11/09/2019**	**21/03/2019**	**19/09/2018**	**27/03/2018**	**12/09/2017**	**8/03/2017**	**22/09/2016**	**15/03/2016**	**9/09/2015**																																
Time sampled				**12:15**	**14:00**	**13:00**	**14:40**	12:30	14:15	13:30	14:50	9:35	11:02	12:45																														
Sampled by				Jesse Munro	Mitchell Call	Mitchell Call	Mitchell Call	Jesse Munro	Jesse Munro	Mark Bayley	Mark Bayley	Jesse Munro	Jesse Munro	Jesse Munro																														
Date results received/ Date results published				28/09/2020 8/10/2020	26/03/2020 30/03/2020	15/10/2019 17/10/2019	10/04/2019 12/04/2019	15/10/2018 26/10/2018	2/05/2018 3/05/2018	23/10/2017 26/10/2017	20/04/2017 15/05/2017																																		
Ammonia	6 Months	0.15	mg/L	0.031	0.11	0.029	0.08	0.025	0.05	0.141	0.042	0.078	0.07	0.026																																
Dissolved Organic Carbon	6 Months	40.3	mg/L	4.1	5.8	5.2	3.4	2.7	3.7	5.6	5.1	9.6	5.4	2.2																																
Nitrogen (total)	6 Months	3	mg/L	0.37	0.46	0.27	0.18	0.19	0.2	0.41	1.4	1.63	0.23	0.13																																
pH	6 Months	4.9-8.4	pH	6.54	6.61	6.7	6.61	6.39	6.11	5.46	6.52	5.3	8.78	5.89																																
Potassium	6 Months	4.95	mg/L	3.5	2.79	3.67	3.3	3.2	2.3	2

Chloride	Event Based	n/a	mg/L	43	48	42	25	14	41	16	61	32	77.50	14.20	109	70	55	115	122	46	80	32																		
Chromium	Event Based	n/a	mg/L	0.002	0.002	0.001	0.001	0.001	0.001	0.003	0.018	0.069	0.00	0.00	0.006	0.003	0.059	0.002	0.002	0.002	0.003	0.005																		
Conductivity	Event Based	n/a	uS/cm	446	663	583	298	198	577	388	332	154	0.96	0.19	0.858	497	0.316	1.3	1.48	830	860	410																		
Copper	Event Based	n/a	mg/L	0.006	0.006	0.008	0.004	0.007	0.006	0.01	0.029	0.072	0.01	0.01	0.003	0.006	0.064	0.013	0.015	0.013	0.009	0.009																		
Dissolved organic carbon	Event Based	n/a	mg/L	47.3	49.9	30.5	13.6	14.6	23.5	11.8	17.9	16.5	36.89	13.49	58.5	28.8	14.1	43.8	37.1	12	24.1	30.8																		
Dissolved Oxygen	Event Based	n/a	mg/L	5.6	6.8	7.5	9.3	8.1	6.4	8.6	4.8	5.6	10.32	9.90	10.8	10.3	9.6	10.4	8.3	7.02	8.01	7.15																		
Magnesium	Event Based	n/a	mg/L	11.7	17.9	14.8	6.26	5.6	14	8.73	7.6	3.4	22.70	3.64	17.1	12.8	7.4	45.4	49.9	25	19.2	7.5																		
Manganese	Event Based	n/a	mg/L	0.048	0.45	0.014	0.007	0.052	0.008	0.089	0.028	0.027	0.02	0.03	0.313	0.033	0.095	0.038	0.131	0.048	0.033	0.021																		
Nitrate	Event Based	n/a	mg/L	0.005	0.005	5.34	3.54	2.28	3.96	12.4	1.77	0.378	13.70	1.52	17.999	3.685	0.581	24.031	17.204	4.723	15.889	5.93																		
pH	Event Based	n/a	pH	7.07	7.54	7.33	7.2	7.35	7.56	7.46	7.07	7.01	7.60	7.31	6.33	7.28	7.26	7029	7.63	7.46	7.23	7.5																		
Potassium	Event Based	n/a	mg/L	9.26	16	18.2	10.8	6.9	15	11.6	7.3	2.4	26.80	9.02	26.2	12.9	5.1	32.3	32.8	18.3	18.7	18.4																		
Redox potential	Event Based	n/a	mV	298	255	291	279				-67	-65	102.00	113.00	217	238	252	224	207	186	330	177																		
Sodium	Event Based	n/a	mg/L	42.4	46.5	35.1	20.2	9.9	47	23	38.6	19.6	74.20	15.20	81.2	32.5	37.8	130	135	69.5	72.9	37.8																		
Sulphate	Event Based	n/a	mg/L	32	61	77	21	20	62	30	34	21	83.10	11.43	47	12	10	162	104	89	102	18																		
Temperature	Event Based	n/a	Deg C	--	--	--	--						18.00	20.00						15.4	18.9	18.6																		
Total suspended solids	Event Based	n/a	mg/L	10	11	5	8	98	4	134	38	36	13.00	82.00	38	238	196	49	18	41	108	54																		
EPA Point 6	**Air**																																							
Parameter	**Frequency**	**Limit**	**unit of measure**																																					
Date sampled				**15/06/2020**	**18/06/2019**	**2/07/2018**	**29/06/2017**	**30/06/2016**	**25/06/2015**	**3/09/2014**	**26/06/2013**	**26/06/2012**	**13/12/2011**																										
Time sampled				13:30-14:00	13:00-13:30	09:00 - 09:30	10:00-10:30																																	
Sampled by				Mitchell Call	Mitchell Call	Mark Bayley	Mark Bayley																																	
Date results received				2/07/2020	4/07/2019	30/07/2018	17/07/2017																																	
Date results published				3/07/2020	17/07/2019	7/08/2018	17/07/2017																																	
Methane	Annual	n/a	Percent by volume	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected																											
EPA Point 7	**Air**																																							
Parameter	**Frequency**	**Limit**	**unit of measure**																																					
Date sampled				**15/06/2020**	**18/06/2019**	**2/07/2018**	**29/06/2017**	**30/06/2016**	**25/06/2015**	**3/09/2014**	**26/06/2013**	**26/06/2012**	**13/12/2011**																										
Time sampled				13:30-14:00	13:00-13:30	09:00 - 09:30	10:00-10:30																																	
Sampled by				Mitchell Call	Mitchell Call	Mark Bayley	Mark Bayley																																	
Date results received				2/07/2020	4/07/2019	30/07/2018	6/07/2017																																	
Date results published				3/07/2020	17/07/2019	7/08/2018	17/07/2017																																	
Methane	Annual	n/a	Percent by volume	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected	Nil detected																											

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