Boonoo Boonoo Discharge and Monitoring Point 9

Date Sampled

Analyte	Unit	PQL	10/12/2013	3/3/2014	9/09/2014	4/12/2014	10/3/2015	15/09/2015	8/12/2015	15/03/2016	21/06/2016	8/11/2016	5/12/2016	28/03/2017	8/06/2017	7/09/2017	13/12/2017	3/04/2018	15/06/2018	28/09/2018	26/10/2018	19/06/2019	13/12/2019	1/04/2020	26/06/2020	1/04/2021	21/09/2021	13/12/2021	7/03/2022	30/05/2022	20/09/2022	7/12/2022	31/03/2023	30/06/2023	4/09/2023	11/12/2023	4/03/2024	24/06/2024	9/09/2024	3/03/2025	Min Since	Mean Since	Max Since	Min Since 10/12/2013	Mean Since 10/12/2013	Max Since 10/12/2013
			Sample No. 1701166	Sample No. 1403705	Sample No. 1409767	Sample No. 1501421	Sample No. 1509470	Sample No. 1601247	Sample No. 1604988	Sample No. 1606474	Sample No. 1608968	Sample No. 1611883	Sample No. 1614688	Sample No. 1706741	Sample No. 1708904	Sample No. 1711486	Sample No. 1715661	Sample No. 1804647	Sample No. 1806628	Sample No. 1810145	Sample No. 1814266	Sample No. 1901915	Sample No. 1905119	Sample No. 2004001	Sample No. 2006061	Sample No. 2104245	Sample No. 2107236.R	Sample No. 2111605.R	9 (ALS)	Sample No. 2205604..	Sample No. 2209112	Sample No. 2212142.2	Sample No. 4/9	Sample No. 4/9	Sample No. 1	Sample No. 4	Sample No. 1									
Water Level#	m	0.1			[NT]			ND	ND		NT	NT	NT	NT	NT	Flowing		Flowing	Low Flow	Dry	NA	Dry	Dry	Dry	Dry		3.0m	1.5	3m	1.3m	1.5m		2.6	2.8	3		10.8		1.7	2.8000	5.5333	10.8000			
Temperature - field	Deg. C	0.1	19.6	16.2	9			7.2	12.8		9.6	11.2	15.4	17.2	10.6	10.5		17.5	8.8	0	15	0	0	0	0	18.6	10.7	14	18	12.5	12.1		17.4	11.1	9.3	14.5		14.9			9.3000	12.9000	14.9000	9.30	12.90	14.90
Dissolved Oxygen	mg/L	0.2	7	5.6	9.04			9.1	7.7		8.1	7.9	4.6	7.7	9.2	10.5		8.7	8.8	0	8.4	0	0	0	0	7.6	7.5	5.2	9.3	nt	7.2	7	7	7.8	7.5	9.9	7.8	7.36	6.34	8.72	6.3400	7.7800	9.9000	6.34	7.78	9.90
Alkalinity (as CaCO3)	mg/L	20	20	<20	<20			<20	<20		<20	<20	28	<20	<20	<20		<20	<20	0	<20	0	0	0	0	<20	<20	<20	16	<14	<14	<14	<14	<14	<14	<14	<14	7	12	5	7.0000	9.5000	12.0000	7.00	9.50	12.00
Aluminium (Dissolved)	mg/L	0.005	0.657	0.4	0.73			0.31	0.33		2.2	0.59	0.15	0.85	0.22	0.21		0.27	0.19	0	1.27	0	0	0	0	1.19	0.032	0.051	0.02	0.094	0.085	0.0054	0.0049	0.17		1.3	<0.05	0.038	0.054	0.06	0.0380	0.4640	1.3000	0.04	0.46	1.30
Ammonia-N	mg/L	0.01	0.04	<0.01	0.02			0.01	0.02		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.06	0.01	0	0.03	0	0	0	0	0.02	<0.01	<0.01	0.02	0.17	0.11	0.087	0.038	0.028	<0.02	<0.02	<0.02	0.014	0.047	0.077	0.0140	0.0460	0.0770	0.01	0.05	0.08
Arsenic (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	<0005	0.00015	0.00012	0.00026	0.00032		<0.02	<0.02	<0.01	<0.01	<0.001	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Cadmium (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.0001	<0.0005	5	0.00021	0.000072	0.001		<0.002	<0.002	<0.01	<0.01		0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Calcium	mg/L	0.1	6.2	2.7	0.5			0.6	0.8		0.6	0.7	7.3	0.8	0.6	0.6		0.4	0.9	0	0.9	0	0	0	0	0.8	1.8	1.1	<1	0.8	5	3.2	2.2	1.9	1.9	1.4	1.4	1.56	1.59	2.25	1.4000	1.5700	1.9000	1.40	1.57	1.90
Chloride	mg/L	2	12.99	11.74	10.72			11	9		8	10	12	10	11	11		9	13	0	11	0	0	0	0	9	21	15	15	15	91	70	65	54	62	47	46	30.9	0	69.1	0.0000	37.1800	62.0000	0.00	37.18	62.00
Chromium (Total)	mg/L	0.005	0.007	0.005	<0.005			<0.005	<0.005		<0.005	<0.005	0.009	0.01	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	0.007	<0.005	0.002	<0.0005	<0.0005	0.0075	<0.0005	0.0014		0.03	<0.01	<0.01	<0.01	<0.05	0.0300	0.0300	0.0300	0.03	0.03	0.03
Cobalt (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	0.0003	0.0003	0.0025	0.0013	0.0013		<0.05	<0.05	<0.05	<0.05		0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Electrical Conductivity	µS/cm	1	63.5	63.8	57.1			58	51		47	55.8	67.6	60.4	58.6	62.8		51.5	62.6	0	61.8	0	0	0	0	50.6	84.4	78.1	77	85	320	260	240	190	190	170	170	155	157	0.212	155.0000	168.4000	190.0000	155.00	168.40	190.00
Copper (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	<0.0005	0.002	0.0062	0.0047	0.018		<0.004	<0.004	0.001	0.001	0.003	0.0010	0.0010	0.0010	0.00	0.00	0.00
Iron (Total)	mg/L	0.005	16.9	9.061	0.53			0.26	3.48		0.75	1.3	15.9	0.7	0.23	0.68		0.67	1.2	0	0.75	0	0	0	0	10.5	8.4	1.9	1.42	0.41	0.94	1.4	2.3	2.8		28	0.949	<0.05	0.011	<0.025	0.0110	9.3533	28.0000	0.01	9.35	28.00
Lead (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005	Dry	Dry	<0.005	<0.005	Dry	0.005	<0.005	<0.005	<0.005	<0.005	0.019		<0.005	<0.005	0	0.005	0	0	0	0	<0.005	<0.005	<0.005	<0.001	0.001	0.005	0.0013	0.0017	0.003		<0.01	<0.01	0.002	0.001	0.003	0.0010	0.0015	0.0020	0.00	0.00	0.00
Magnesium	mg/L	0.1	3.1	1.4	0.6			0.5	0.8		0.8	0.7	3.4	0.8	0.5	0.5		0.5	0.8	0	0.6	0	0	0	0	2.1	1.6	0.9	<1	0.72	7.3	4.7	3.2	3.1	2.8	1.9	2.1	2.22	2.29	3.59	1.9000	2.2620	2.8000	1.90	2.26	2.80
Manganese (Total)	mg/L	0.005	0.584	0.146	0.005			0.005	0.64		0.008	0.029	0.38	0.013	<0.005	0.017		0.01	0.021	0	0.008	0	0	0	0	0.11	0.073	0.045	0.055	0.038	0.24	0.039	0.09	0.081		0.45	0.062	0.064	0.029	0.108	0.0290	0.1513	0.4500	0.03	0.15	0.45
Mercury*	ug/L	0.05	<0.05	<0.05	<0.05			<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	0	<0.05	0	0	0	0	<0.05	<0.05	<0.05	<0.0001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<.05	<0.005	<0.0005	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Nickel (Dissolved)	mg/L	0.005	<0.005	<0.005	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	0.006		<0.005	<0.005	0	<0.005	0	0	0	0	<0.005	<0.005	<0.005	<.001	0.0009	0.001	0.0012	0.0011	0.0023		<0.007	<0.007	<.01	<0.001	<0.001	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Nitrogen - Nitrate-N	mg/L	0.05	0.11	<0.05	<0.05			0.05	<0.05		<0.05	<0.05	1.2	<0.05	0.05	<0.05		<0.05	<0.05	0	0.06	0	0	0	0	0.14	0.24	0.07	0.02	<0.2	<0.02	0.072	<0.02	0.072	0.036	0.088	0.77	0.982	0.753	0.04	0.0360	0.5258	0.9820	0.04	0.53	0.98
Nitrogen - Nitrite-N	mg/L	0.01	0.02	<0.01	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	0	<0.01	0	0	0	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<.05	<0.005	0.012	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Nitrogen - Total Kjeldahl	mg/L	0.1	8.1	3.3	0.5			0.3	2.9		1	1.1	0.3	0.9	0.2	0.5		1.1	1.3	0	0.3	0	0	0	0	2.4	0.8	0.4	0.4							1.7		1.15	0.931	0.203	0.2030	0.9980	1.7000	0.20	1.00	1.70
pH	pH	0.1	6.1	6.2	6.25			6.5	6.4		5.5	6.2	6.3	5.9	6.4	6.7		6.6	6	0	6.1	0	0	0	0	5.8	5.4	5.4	6.5	5.4	5.5	4.9	4.9	5.3	5.3	5.2	5.5	5.31	5.62	5.11	5.2000	5.3860	5.6200	5.20	5.39	5.62
Potassium	mg/L	0.1	3.2	2.2	1.4			1.1	1.5		1.8	1.3	4	3	1.3	1.2		0.7	1	0	1.6	0	0	0	0	4.4	3.1	2.2	2	1.6	4.1	3.9	3.2	2.9	2.6	2.9	1.4	2.39	2.52	4.16	1.4000	2.3620	2.9000	1.40	2.36	2.90
Redox Potential#	mV	-500	260	229	352			242	186		339	271	343	360	261	217		259	176	0	233	0	0	0	0	391	254	251	233	85	NT	229	267	272	227	234	60.2	200	214	224	60.2000	187.0400	234.0000	60.20	187.04	234.00
Sodium	mg/L	0.15	10.9	9.6	9.6			10	9		7	9.5	12.6	8.9	10.4	11.6		9.5	10.2	0	10.4	0	0	0	0	10	12.9	81.3	12	10	40	32	26	27	21	21	19	22.8	25.2	39	19.0000	21.8000	25.2000	19.00	21.80	25.20
Sulphate#	mg/L	2	<2	<2	<2			<2	<1		2	<1	2.5	<1	<1	<1		<1	1.2	0	1.8	0	0	0	0	11.7	8	6.3	<1	1	<0.5	<0.5	0.72	1.1	1	1.1	1.7	4.24	<0.5	<9	1.0000	2.0100	4.2400	1.00	2.01	4.24
Total Organic Carbon*	mg/L	1	2	20	12			3	8		27	16	2	32	7	11		5	12	0	6	0	0	0	0	17	2	3	4	2	1.8	15	2.5	3	1.2	9.2	3	1.76	1.37	2.24	1.2000	3.3080	9.2000	1.20	3.31	9.20
Total Suspended Solids	mg/L	1						18	540		17	117	3670	9	4	72		52	119	0	18	0	0	0	0	2184	698	618	470	4	1.5	5800	310	680	230	11000	26	12	3	4	3.0000	2254.2000	11000.0000	3.00	2254.20	11000.00
Zinc (Total)	mg/L	0.005	0.051	0.023	<0.005			<0.005	0.008		<0.005	<0.005	0.044	0.071	<0.005	0.007		<0.005	0.007	0	0.009	0	0	0	0	0.58	0.11	0.038	0.03	0.012	0.039	0.0043	0.0019	0.041		0.14	0.021	0.025	0.086	<0.05	0.0210	0.0630	0.1400	0.02	0.06	0.14
PAHs in water*	µg/L	1	[ND]	[ND]	<5			<5	<5		ND	ND	ND	ND	ND	ND		ND	ND	0	ND	0	0	0	0	ND	ND	ND	nd	nd	ND	ND	ND	ND	<0.1	<0.1	<0.1	<.1	<.01	<1	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
TRH C10-C14*	µg/L	50	<50		<50			<50	<50		<50	<50	<50	ND	<50	ND		ND	<50	0	ND	0	0	0	0	ND	<50	ND	<100	<50	<50	<50	<50	<50	<50			<50	< 50		0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
TRH C15-C28*	µg/L	100	250		<100			<100	<100		<100	<100	<100	ND	<100	ND		ND	<100	0	ND	0	0	0	0																0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
TRH C29-C36*	µg/L	100	<100		<100			<100	<100		<100	<100	<100	ND	<100	ND		ND	<100	0	ND	0	0	0	0																0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
TRH C10-C36*	µg/L	100		[ND]																0	<100			0	0																0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Alkalinity - Hydroxide	mg/L	0			0															0																					0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Chromium (VI)	mg/L	0.05						<0.05												0				0	0														<0.001	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
Mercury (Dissolved)*	µg/L	0.05																		0				0	0											<0.05	<0.05	<0.05	< .05	<0.05	< 0.0005	0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
OC/OP in Water*	ug/L	0.2	<0.2	<0.2	<0.2										<0.2					0				0	0	N/A	N/A	NA	nd	ND	ND	ND	ND	ND	<0.2	<0.2	<0.2	<.02	<0.02		0.0000	#DIV/0!	0.0000	0.00	#DIV/0!	0.00
	Date Obtained		11/12/2013	4/03/2014	10/09/2014	4/12/2014	30/03/2015	28/09/2015	8/12/2015	15/03/2016	21/06/2016	8/11/2016	5/12/2016	28/03/2017	8/06/2017	7/09/2017	13/12/2017	3/04/2018	15/06/2018	28/09/2018	26/10/2018	19/06/2019	13/12/2019	1/04/2020	26/06/2020	1/04/2021	7/09/2021	13/12/2021	7/03/2022	30/05/2022	20/09/2022	7/12/2022	31/03/2023	30/06/2023	4/09/2023	11/12/2023	4/03/2024	24/06/2024	10/03/2025						
	Date Published				23/09/2014	6/01/2015	7/04/2015	29/09/2015	21/12/2015	31/03/2016	5/07/2016	21/11/2016	20/12/2016	11/04/2017	26/06/2017	20/09/2017	22/12/2017	12/04/2018	29/06/2018	16/10/2018	9/11/2018	10/07/2019	8/01/2020	14/04/2020	10/07/2020	15/04/2021	21/09/2021	4/01/2022	18/03/2022	21/06/2022	4/10/2022	12/12/2022	31/03/2023	30/06/2023	26/09/2023	22/12/2023	8/04/2024		24/03/2025						