



July 2024 - Groundwater, Surface Water and Surface Gas Monitoring Analytical Results

	Field					Inorganics					Physical Parameters		
	Methane	Depth to groundwater (measured)	DO (Field)	Electrical Conductivity (Non Compensated)	pH (Field)	Temp (Field)	Ammonia as N	Alkalinity (total) as CaCO3	Nitrate (as N)	TOC	Iron (filtered)	Electrical conductivity *(lab)	TSS
	ppm	m	mg/L	µS/cm	-	oC	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L
EQL	5	0.01	0.01	1	0.01	0.1	0.01	1	0.01	1	0.05	1	5

Site ID	EPL No.	Location Code	Sampled Date	Methane	Depth to groundwater (measured)	DO (Field)	Electrical Conductivity (Non Compensated)	pH (Field)	Temp (Field)	Ammonia as N	Alkalinity (total) as CaCO3	Nitrate (as N)	TOC	Iron (filtered)	Electrical conductivity *(lab)	TSS
Buttonderry	1	B_BTU	10 Jul 2024	-	-	7.17	141.3	6.38	12.2	0.07	8	<0.01	32	1.37	-	8
Buttonderry	2	B_BTM	10 Jul 2024	-	-	7.21	208.6	6.79	12.4	0.38	19	0.12	32	1.24	-	16
Buttonderry	3	B_BTD	10 Jul 2024	-	-	7.04	255.7	6.92	12.4	0.31	36	0.46	29	1.12	-	16
Buttonderry	4	B_BT20	10 Jul 2024	-	1.05	1.89	11,289	6.12	17.2	0.09	475	0.03	7	0.1	-	-
Buttonderry	5	B_BT19	08 Jul 2024	-	0.2	0.98	11,674	6.59	16.9	0.13	552	0.21	<1	<0.05	-	-
Buttonderry	6	B_BT17	10 Jul 2024	-	2.49	2.02	10,957	6.6	16.9	0.02	591	<0.01	1	<0.05	-	-
Buttonderry	7	B_BT16	08 Jul 2024	-	2.11	1.9	9,486	6.61	16.5	0.04	611	0.17	<1	0.06	-	-
Buttonderry	9	B_BT4	08 Jul 2024	-	1.15	1.38	13,966	5.85	18	0.2	102	0.13	1	22.1	-	-
Buttonderry	11	B_BT3	10 Jul 2024	-	1.75	0.95	11,268	5.74	17.4	0.4	135	<0.01	1	31.6	-	-
Buttonderry	12	B_TB1	08 Jul 2024	-	1.53	1.68	1,537	7.22	17.7	5.32	722	0.09	33	13.7	-	-
Buttonderry	13	B_TB2	10 Jul 2024	-	1.59	4.35	7,033	5.83	16.4	0.12	105	<0.01	3	0.49	-	-
Buttonderry	14	B_B	10 Jul 2024	-	3.87	5.84	3,304	6.69	17.2	0.02	118	<0.01	11	0.34	-	-
Buttonderry	15	Area 1	22 Jul 2024	<5*	-	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	16	Area 2	22 Jul 2024	140*	-	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	17	Area 3	22 Jul 2024	1,820*	-	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	18	Gatehouse	22 Jul 2024	<5*	-	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	19	B_Discharge Point 1	10 Jul 2024	-	-	1.44	631	7.59	13.7	6.14	-	-	27	-	876	-
Buttonderry	20	B_Discharge Point 2	10 Jul 2024	-	-	5.8	449.2	7.7	12.8	0.71	-	-	15	-	614	-
Buttonderry	22	B_101S	10 Jul 2024	-	4.32	2.62	11,690	6.19	17	0.01	232	<0.01	3	1.82	-	-
Buttonderry	23	B_102S	10 Jul 2024	-	2.78	4.8	9,143	5.14	15.6	0.07	58	0.02	12	<0.05	-	-
Buttonderry	24	B_103D	08 Jul 2024	-	2.72	3.1	6,123	5.42	19	0.16	59	0.05	47	4.51	-	-
Buttonderry	25	B_104S	10 Jul 2024	-	2	2.36	1,523	6.79	17.8	0.46	352	0.04	39	<0.05	-	-
Buttonderry	26	B_105S	10 Jul 2024	-	2.85	2.85	2,287	6.51	18.2	0.64	386	<0.01	56	0.43	-	-
Buttonderry	27	B_617S	10 Jul 2024	-	1.76	1.63	8,717	5.36	18.3	0.16	66	<0.01	23	15	-	-
Buttonderry	28	B_613s	10 Jul 2024	-	3.09	1.42	6,847	5.82	16.4	0.51	80	<0.01	13	0.28	-	-
Buttonderry	29	B_902	10 Jul 2024	-	2.59	5.12	10,127	6.7	17.4	0.02	562	0.06	<1	<0.05	-	-
Buttonderry	30	B_901	08 Jul 2024	-	5.16	2.67	9,016	6.64	17.9	0.03	556	0.14	<1	0.32	-	-
Buttonderry	31	B_110D	08 Jul 2024	-	3.62	1.24	11,429	6.33	19	0.02	425	0.01	9	0.16	-	-
Buttonderry	32	B_111S	10 Jul 2024	-	3.28	1.1	11,430	4.77	17.7	0.15	2	<0.01	33	0.18	-	-
Buttonderry	33	B_112D	08 Jul 2024	-	2.35	1.94	9,980	4.43	19.1	0.11	2	0.06	9	11.2	-	-
Buttonderry	34	B_113s	10 Jul 2024	-	1.86	1.44	1,724	6.52	17.6	0.64	233	0.16	22	28.4	-	-

Notes: \* denotes maximum concentration recorded within monitoring area.

^ denotes reading collected from sewer sump outside of office building

NT denotes 'not tested', Laboratory error, field pH was collected

A copy of the Environment Protection Licence (EPL) can be viewed at:

[5955.pdf \(nsw.gov.au\)](https://www.nsw.gov.au/5955.pdf)

Condition M2.2 - Air Monitoring Requirements - Monthly Surface Gas

Condition M2.3 - Water and/ or Land Monitoring Requirements - Quarterly/

Yearly Groundwater and Surface Water

Date pollution monitoring data was obtained by licensee: 07/08/2024