



**Licence No 4627 Publication of Monitoring Data
M8 St Peters Interchange –10-16 Albert Street, St Peters**

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Ambient Monitoring – Groundwater Quality

EPL No: 4627

Date of Sampling 12, 13, 16 and 19 May 2022

Date Received

27 June 2022

Date of Publication

8 July 2022

Pollutant	Unit	Frequency	Monitoring Point (EPA Identification Number)										
			LDS-BH-3057B (2)	LDS-BH-3059B (3)	LDS-BH-3087 (4)*	LDS-BH-3088 (5)*	LDS-BH-3089A (6)	LDS-BH-3090 (7)	LDS-BH-3091A (8)	LDS-GW-MW3 (9)	MW4D (10)	WCX-BH157A (11)	LDS-BH-3907A (12)
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	830	960	NR1	1900	370	140	490	560	760	270	470
Ammonia	milligrams per litre	Quarterly	10	9.1	NR1	160	1.3	1.1	7.0	1.5	1.8	1.2	3.5
Bicarbonate	milligrams per litre	Quarterly	830	960	NR1	1900	370	140	490	560	830	270	470
Calcium	milligrams per litre	Quarterly	70	440	NR1	76	130	28	160	440	140	330	48
Chloride	milligrams per litre	Quarterly	220	310	NR1	670	130	360	130	5300	2000	140	280
Electrical Conductivity	Microsiemens per centimetre	Quarterly	NR2	6273	NR1	5305	1773	1472	1499	13909	NR2	2549	1977
Fluoride	milligrams per litre	Quarterly	0.69	0.74	NR1	0.33	1.6	2.1	0.42	0.25	0.19	0.32	0.55
Magnesium	milligrams per litre	Quarterly	70	190	NR1	55	41	4.5	29	620	80	54	36
Nitrate	milligrams per litre	Quarterly	<0.005	<0.025	NR1	<0.025	2.0	<0.005	0.027	<0.05	1.1	6.1	0.036

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Nitrite	milligrams per litre	Quarterly	<0.005	<0.005	NR1	<0.005	0.069	<0.005	0.018	<0.005	<0.005	0.098	0.011
pH	pH units	Quarterly	NKR2	6.85	NR1	7.18	7.35	8.17	6.94	6.8	NR2	5.91	7.06
Phosphorus	milligrams per litre	Quarterly	1.3	0.4	NR1	1.3	0.93	0.6	2.6	3.3	0.04	0.44	1.3
Potassium	milligrams per litre	Quarterly	60	67	NR1	190	51	18	20	49	18	40	36
Redox Potential	millivolts	Quarterly	NR2	-78.9	NR1	27.4	38.2	-28.9	-23.8	-6.5	NR2	6.5	26.9
Sodium	milligrams per litre	Quarterly	320	610	NR1	820	230	300	130	2800	1200	140	320
Sulphate	milligrams per litre	Quarterly	320	1800	NR1	12	350	110	180	1200	63	770	120
Standing Water Level	Metres AHD	Quarterly	-0.12	1.38	NR1	-13.27	-0.85	6.3	0.39	-9.62	-9.95	9.59	-3.84
Temperature	Degrees Celsius	Quarterly	NR2	21.3	NR1	23.1	22.2	17.3	21.2	21.0	NR2	20.3	22.3
Total Dissolved Solids	milligrams per litre	Quarterly	2000	4000	NR1	2900	1200	880	970	12000	3900	1800	3500
Total Organic Carbon	milligrams per litre	Quarterly	24	31	NR1	80	6.8	14	17	7.1	4.8	7.6	19

NOTES:

- EPL - Environment Protection Licence
- < - less than
- mAHD - metres Australian Height Datum
- NR1 - no results – the monitoring well has been damaged by construction activities
- NR2 - no result – The field analytes were unable to be collected

LDS-BH-3087 (4)* and LDS-BH-3088 (5)* - these bores are screened into waste and results are leachate and not groundwater.

LDS-BH-3090 - the Standing Water Level is metres below Top of Casing