



**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** 22<sup>nd</sup>, 23<sup>rd</sup>, 29<sup>th</sup> Jun and 6 July 2023

**Date Received**

24 October 2023

**Date of Publication**

6 November 2023

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	610	1000	NR1	2,000	470	230	510	580	270	130	470
Ammonia	milligrams per litre	Quarterly	4.5	8.4	NR1	140	1.4	2.2	6.5	0.58	0.38	0.21	3.6
Bicarbonate	milligrams per litre	Quarterly	-	-	NR1	1950	-	-	-	-	-	-	-
Calcium	milligrams per litre	Quarterly	50	300	NR1	81	62	82	140	400	21	23	64
Chloride	milligrams per litre	Quarterly	190	340	NR1	730	160	120	130	5500	250	37	290
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2164	392	NR1	5362	1680	1596	1548	16453	1422	344.1	1877
Fluoride	milligrams per litre	Quarterly	0.63	0.8	NR1	0.26	0.78	0.34	0.44	0.29	0.28	0.17	0.19
Magnesium	milligrams per litre	Quarterly	49	100	NR1	54	35	20	23	560	5.6	6.4	36

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Nitrate	milligrams per litre	Quarterly	0.019	<0.025	NR1	<0.025	0.44	0.21	<0.005	<0.1	0.054	<0.005	<0.005
Nitrite	milligrams per litre	Quarterly	0.016	<0.005	NR1	<0.005	0.092	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
pH	pH units	Quarterly	7.05	6.43	NR1	6.92	7.05	6.49	6.55	6.34	5.88	6.34	6.63
Phosphorus	milligrams per litre	Quarterly	0.23	0.46	NR1	0.64	0.45	<0.02	0.93	0.79	0.06	1.4	3.9
Potassium	milligrams per litre	Quarterly	41	64	NR1	160	46	22	18	38	4.8	5.7	40
Redox Potential	millivolts	Quarterly	-243.8	-15	NR1	-80.1	-52.6	95	-34.1	155.7	194.2	-109.5	-65
Sodium	milligrams per litre	Quarterly	220	440	NR1	730	230	160	140	2600	230	56	280
Sulphate	milligrams per litre	Quarterly	320	880	NR1	8.9	210	260	120	2100	7.9	40	210
Standing Water Level	Metres AHD	Quarterly	2.99	1.78	NR1	11.38	6.18	6.92	5.63	13.96	28.24	22.59	9.75
Temperature	Degrees Celsius	Quarterly	17.5	18.3	NR1	21.9	19	22.6	19.4	19.2	18.1	18.7	18.7
Total Dissolved Solids	milligrams per litre	Quarterly	1400	2600	NR1	2800	990	790	860	12000	680	290	1100
Total Organic Carbon	milligrams per litre	Quarterly	14	29	NR1	57	9.8	13	22	6.9	2	17	57

NOTES:

- EPL - Environment Protection Licence  
 < - less than  
 mAHD - metres Australian Height Datum  
 NR1 - no results – well damaged by Stage 3 contractors.

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