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 **21st, 23rd and 24th March 2023** **Date Received** **29 August 2023** **Date of Publication** **6 September 2023**

			Monitoring Point (EPA Identification Number)										
Pollutant	**Unit**	**Frequency**	**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	540	980	NR1	2,100	460	280	500	610	790	110	400
Ammonia	milligrams per litre	Quarterly	6.1	7.1	NR1	150	1	2.7	6.9	1.2	1.6	0.13	3.5
Bicarbonate	milligrams per litre	Quarterly	-	-	NR1	1930	-	-	-	-	-	-	-
Calcium	milligrams per litre	Quarterly	61	170	NR1	78	75	89	140	410	150	23	42
Chloride	milligrams per litre	Quarterly	140	280	NR1	700	150	120	130	5300	290	29	290
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2931	2670	NR1	4555	1368	1334	1264	13845	5319	431.2	1698
Fluoride	milligrams per litre	Quarterly	0.43	0.73	NR1	<0.10	1.1	<0.10	0.23	0.28	0.36	0.23	0.36
Magnesium	milligrams per litre	Quarterly	61	56	NR1	54	37	26	26	560	72	5.7	35

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Nitrate	milligrams per litre	Quarterly	0.19	0.043	NR1	<0.05	1.9	0.007	0.012	0.84	0.94	<0.005	0.094
Nitrite	milligrams per litre	Quarterly	<0.005	<0.005	NR1	<0.005	0.032	0.005	0.006	0.005	0.006	0.006	0.011
pH	pH units	Quarterly	7.1	‘6.86	NR1	6.75	7.05	6.57	6.68	6.72	7.02	6.46	6.84
Phosphorus	milligrams per litre	Quarterly	0.22	0.66	NR1	0.64	0.23	0.50	1.2	1.8	0.05	0.74	1.7
Potassium	milligrams per litre	Quarterly	49	39	NR1	160	47	25	20	41	18	5.7	38
Redox Potential	millivolts	Quarterly	-97.8	-69.5	NR1	-113.5	-199.3	6.3	-199.8	-53.6	8.2	-1.4	-116.2
Sodium	milligrams per litre	Quarterly	260	320	NR1	690	220	140	130	2800	1100	4.6	310
Sulphate	milligrams per litre	Quarterly	230	630	NR1	220	220	220	140	2000	38	45	190
Standing Water Level	Metres AHD	Quarterly	-0.02	1.509	NR1	-15.44	-1.793	7.29	0.153	-8.52	-15.751	NR2	-3.101
Temperature	Degrees Celsius	Quarterly	24.7	23.4	NR1	24	21	22.4	23.1	23.4	23.5	23.4	20.6
Total Dissolved Solids	milligrams per litre	Quarterly	1100	2300	NR1	2900	1000	780	910	12000	3900	2400	4200
Total Organic Carbon	milligrams per litre	Quarterly	18	17	NR1	67	6.9	17	19	8.9	7	12	51

NOTES:

EPL - Environment Protection Licence
< - less than
mAHD - metres Australian Height Datum
NR1 - no results – well damaged by Stage 3 contractors.
NR2 - Blockage in well LDS-BH-157A 18 metres down. Neither logger for SWL nor hydra sleeve could be fully submerged inside the well.

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