



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 20, 21, 22 and 27 October 2020

Date Received

18 November 2020

Date of Publication

4 December 2020

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	No Access	990	4300	2140	470	No Access	370	510	710	86	560
Ammonia	milligrams per litre	Quarterly		8.8	150 *	210 *	2.5		7.1	1.4	2	0.31	3.9
Bicarbonate	milligrams per litre	Quarterly		NR1	NR1	210	NR1		NR1	NR1	NR1	NR1	NR1
Calcium	milligrams per litre	Quarterly		490	42	47	29		77	340	120	20	55
Chloride	milligrams per litre	Quarterly		370	1200	1000	130		65	4800	1900	31	220
Electrical Conductivity	Microsiemens per centimetre	Quarterly		7450	5386	3806	1515		975	15237	7080	252.4	2105
Fluoride	milligrams per litre	Quarterly		0.65	0.56	0.36	0.4		0.29	0.25	0.2	<0.1	0.49
Magnesium	milligrams per litre	Quarterly		260	40	41	27		20	460	83	3.3	33
Nitrate	milligrams per litre	Quarterly		<0.05	<0.05	<0.05	0.075		<0.005	<0.1	<0.05	0.12	<0.005
Nitrite	milligrams per litre	Quarterly		<0.005	<0.005	<0.005	0.005		<0.005	<0.005	0.045	0.021	<0.005
pH	pH units	Quarterly		6.75	7.24	7.15	7.20		7.05	7.13	7.26	6.4	7.12

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Phosphorus	milligrams per litre	Quarterly		0.34	1.4	0.94	0.34			1.3	0.78	0.03	2.5	0.94
Potassium	milligrams per litre	Quarterly		63	190	190	30			13	41	16	3.8	24
Redox Potential	millivolts	Quarterly		-111.7	-98.1	63.7	82.2			-94.1	-151.0	65.8	113.2	-92.7
Sodium	milligrams per litre	Quarterly		750	1800	1000	270			57	2500	1300	34	280
Sulphate	milligrams per litre	Quarterly		2700	<1	<1	120			14	1100	110	14	60
Standing Water Level	Metres below top of casing	Quarterly		1.44	18.81	9.11	6.49			3.76	NR1	28.05	18.25	9.75
Temperature	Degrees Celsius	Quarterly		23.4	25.1	23.9	20.4			23.0	20.9	21.5	16.1	27.7
Total Dissolved Solids	milligrams per litre	Quarterly		6100	6000	4000	1000			610	11900	4100	150	3400
Total Organic Carbon	milligrams per litre	Quarterly		58	130	110	8.5			40	17	6.4	33	49

NOTES:

- EPL - Environment Protection Licence
- < - less than
- No Access - wells were inaccessible due to continuing construction activities blocking access that couldn't be resolved in time for the monitoring event.
- NR1 - the analysis/ measurement was missed in error
- LDS-BH-3087 (4)\* and LDS-BH-3088 (5)\* - these bores are screened into waste and results are leachate and not groundwater.