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 **16, 17 and 22 June 2021** **Date Received** **10 August 2021** **Date of Publication** **27 August 2021**

			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	670	740	3100	1600	390	180	340	440	600	78	430
Aluminium	milligrams per litre	Yearly	0.012	<0.005	0.021	0.006	<0.005	8.400	0.033	<0.005	<0.005	0.016	0.140
Ammonia	milligrams per litre	Quarterly	11	6.4	160	185	2	2.2	7	1.2	1.5	5.4	2.6
Arsenic	milligrams per litre	Yearly	0.001	0.002	0.240	0.005	<0.001	0.410	0.002	<0.001	0.012	<0.001	0.001
Barium	milligrams per litre	Yearly	0.025	0.018	1.400	1.000	0.065	0.250	0.041	0.110	0.380	0.036	0.082
Benzene	milligrams per litre	Yearly	<0.0005	<0.0005	0.022	0.024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bicarbonate	milligrams per litre	Quarterly	670	740	3100	1600	390	180	340	440	600	78	430
Cadmium	milligrams per litre	Yearly	<0.0001	<0.0001	0.0013	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	Quarterly	94	430	51	60	93	83	120	440	130	16	35
Chloride	milligrams per litre	Quarterly	230	310	1200	820	180	360	110	5300	1900	18	220
Chromium (hexavalent)	milligrams per litre	Yearly	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

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Chromium (total)	milligrams per litre	Yearly	0.001	<0.001	0.020	0.008	<0.001	0.033	0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	Yearly	<0.001	<0.001	0.004	0.005	<0.001	0.009	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	milligrams per litre	Yearly	<0.001	<0.001	<0.001	<0.001	<0.001	0.022	0.004	<0.001	<0.001	0.002	<0.001
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2829	3938	9842	4989	1825	1603	1305	13696	5741	907	1763
Ethyl Benzene	milligrams per litre	Yearly	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Fluoride	milligrams per litre	Quarterly	0.95	0.68	0.51	0.37	1	0.7	0.33	0.27	0.2	<0.1	0.6
Hydrocarbons	milligrams per litre	Yearly	1.20	1.00	14.0	9.50	<0.320	5.10	<0.320	1.10	0.45	<0.32	0.85
Iron	milligrams per litre	Yearly	0.031	5.3	3.8	0.62	0.006	110	0.21	0.14	0.007	0.14	0.044
Lead	milligrams per litre	Yearly	<0.001	<0.001	0.110	0.02	<0.001	0.032	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	Quarterly	91	190	55	56	42	16	25	340	88	33	30
Manganese	milligrams per litre	Yearly	0.028	0.910	0.053	0.060	0.043	0.350	0.440	0.520	0.014	0.049	0.190
Mercury	milligrams per litre	Yearly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	milligrams per litre	Yearly	<0.001	0.002	0.011	0.028	0.002	0.027	0.001	0.002	0.004	0.005	0.004
Nitrate	milligrams per litre	Quarterly	<0.025	<0.025	<0.025	<0.025	0.021	NR	0.016	<0.1	<0.05	<0.005	0.035
Nitrite	milligrams per litre	Quarterly	<0.005	0.022	<0.005	<0.005	0.034	0.021	<0.005	<0.005	<0.005	<0.005	<0.005
Organochlorine Pesticides	milligrams per litre	Yearly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Organophosphorus Pesticides	milligrams per litre	Yearly	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
pH	pH units	Quarterly	6.95	6.17	6.76	7.26	6.77	7.17	6.66	6.43	6.73	6.91	7.18
Phenols	milligrams per litre	Yearly	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Phosphorus	milligrams per litre	Quarterly	0.31	0.19	1.4	1.1	0.3	1	1.4	0.83	0.08	0.89	1.1
Polycyclic Aromatic Hydrocarbons	milligrams per litre	Yearly	<0.001	<0.001	0.0123	0.033	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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Potassium	milligrams per litre	Quarterly	77	58	250	240	54	47	19	44	18	49	32
Redox Potential	millivolts	Quarterly	-268	-105.4	-111.9	-10.3	-82.1	-206.7	-94.0	-78.7	-84.1	-141.7	-95.0
Sodium	milligrams per litre	Quarterly	410	630	1800	1300	300	370	97	2600	1200	41	320
Sulphate	milligrams per litre	Quarterly	350	1800	<1	1.8	300	220	49	1100	92	27	52
Standing Water Level	Metres AHD	Quarterly	-0.1	1.6	-14.9	-15.0	-0.1	6.36	0.1	-8.8	-10.5	1.2	-3.1
Temperature	Degrees Celsius	Quarterly	22.1	16.5	NR	16.2	20.2	18.6	21.8	18.0	20.9	18.7	21.6
Toluene	milligrams per litre	Yearly	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Dissolved Solids	milligrams per litre	Quarterly	1800	3700	5500	3300	1200	1300	670	13000	3700	160	2600
Total Organic Carbon	milligrams per litre	Quarterly	29	35	140	82	12	34	38	12	7.4	6.6	32
Xylene	milligrams per litre	Yearly	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Zinc	milligrams per litre	Yearly	<0.005	<0.005	0.025	0.037	<0.005	0.460	0.017	<0.005	0.006	0.009	<0.005

NOTES:

EPL - Environment Protection Licence
< - less than
mAHD - metres Australian Height Datum
NR - no result

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