

## Groundwater Monitoring Data July 2021

Published: 21 July 2021 Licensee: Cargill Newcastle EPL no.: 5810									
Qualifications related to limits Samples taken as per approved methods.									
EPA Point ID	Sampling Date	Date Results Received	Pollutant	Measurement Period and Monitoring Frequency Required by Licence	Units	Value	2021 Values to date		
							Min Value	Mean Value	Max Value
6	1/07/2021	12/07/2021	pH	Every 6 months	pH	7.45	7.45	7.46	7.47
			Conductivity	Every 6 months	µS/cm	1860	1860	2265	2670
			Calcium	Every 6 months	mg/L	104	94	99	104
			Magnesium	Every 6 months	mg/L	37	37	27.8	37
			Nitrate	Every 6 months	mg/L	0.02	0.01	0.015	0.02
			Nitrogen (total)	Every 6 months	mg/L	2.8	2.8	10.2	17.6
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	2.8	2.8	10.2	17.6
			Phosphorus (total)	Every 6 months	mg/L	8.01	8.01	18.8	29.5
			Sodium	Every 6 months	mg/L	253	253	233.25	427
			Sulfate	Every 6 months	mg/L	10	1	5.5	10
			Total Dissolved Solids	Every 6 months	mg/L	1200	1200	1400	1600
			Hexane	Every 6 months	mg/L	<0.01	<0.01	<0.01	<0.01
			Total Recoverable Hydrocarbons (C10-C40)	Every 6 months	mg/L	<0.01	<0.01	0.07	0.12
Standing Water Level	Every 6 months	m	1	1	2	2			

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							Min Value	Mean Value	Max Value
7	1/07/2021	1/07/2021	pH	Every 6 months	pH	7.46	7.46	7.53	7.6
			Conductivity	Every 6 months	µS/cm	1510	1510	1615	1720
			Calcium	Every 6 months	mg/L	140	134	137	140
			Magnesium	Every 6 months	mg/L	16	15	15.5	16
			Nitrate	Every 6 months	mg/L	0.01	0.01	2.5	5.02
			Nitrogen (total)	Every 6 months	mg/L	16.1	13.1	14.6	16.1
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	16.1	8	12.05	16.1
			Phosphorus (total)	Every 6 months	mg/L	5.73	1.86	3.8	5.73
			Sodium	Every 6 months	mg/L	185	185	225	265
			Sulfate	Every 6 months	mg/L	16	16	35	54
			Total Dissolved Solids	Every 6 months	mg/L	967	967	984	1000
			Hexane	Every 6 months	mg/L	<0.01	<0.01	<0.01	<0.01
			Total Recoverable Hydrocarbons (C10-C40)	Every 6 months	mg/L	1.22	1.22	1	1.63
Standing Water Level	Every 6 months	m	1	1	1.5	2			

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							Min Value	Mean Value	Max Value
8	1/07/2021	12/07/2021	pH	Every 6 months	pH	7.28	7.28	7	7.58
			Conductivity	Every 6 months	µS/cm	1330	1330	1485	1640
			Calcium	Every 6 months	mg/L	132	132	143.5	155
			Magnesium	Every 6 months	mg/L	25	17	16.75	25
			Nitrate	Every 6 months	mg/L	0.35	0.35	0.57	0.78
			Nitrogen (total)	Every 6 months	mg/L	2.4	2.4	3.55	4.7
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	2	2	2.95	3.9
			Phosphorus (total)	Every 6 months	mg/L	0.5	0.5	0.85	1.2
			Sodium	Every 6 months	mg/L	193	193	195.5	198
			Sulfate	Every 6 months	mg/L	89	89	170	251
			Total Dissolved Solids	Every 6 months	mg/L	882	882	986	1090
			Hexane	Every 6 months	mg/L	<0.01	<0.01	<0.01	<0.01
			Total Recoverable Hydrocarbons (C10-C40)	Every 6 months	mg/L	<0.01	<0.01	0.06	0.01
Standing Water Level	Every 6 months	m	1	1	2	2.5			

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							Min Value	Mean Value	Max Value
9	1/07/2021	18/01/2021	pH	Every 6 months	pH	7.37	7.37	7.51	7.65
			Conductivity	Every 6 months	µS/cm	1280	1280	1600	1920
			Calcium	Every 6 months	mg/L	94	94	95.5	97
			Magnesium	Every 6 months	mg/L	34	34	38.5	43
			Nitrate	Every 6 months	mg/L	0.28	0.06	0.17	0.28
			Nitrogen (total)	Every 6 months	mg/L	1.5	1.5	2.35	3.2
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	1.2	1.2	2.15	3.1
			Phosphorus (total)	Every 6 months	mg/L	3.21	3.21	9.66	16.1
			Sodium	Every 6 months	mg/L	159	159	234.5	310
			Sulfate	Every 6 months	mg/L	127	127	173	218
			Total Dissolved Solids	Every 6 months	mg/L	877	877	1009	1140
			Hexane	Every 6 months	mg/L	<0.01	<0.01	<0.01	<0.01
			Total Recoverable Hydrocarbons (C10-C40)	Every 6 months	mg/L	<0.01	<0.01	0.08	0.14
Standing Water Level	Every 6 months	m	1	1	1.5	2			