



Tritton and Girilambone Operations

Monthly Environmental Monitoring
Report

June 2015

JUNE 2015 – GROUNDWATER MONITORING REPORT

GIRILAMBONE OPERATIONS LICENCE NO.4501

Licensee: TRITTON RESOURCES LIMITED					
EPL No. 4501					
Sample Point	Monitoring Frequency	Sampled	Parameter	Measurement	Unit
EPA ID No. 2 - GIP224	Monthly	26/06/2015	Arsenic	<0.010	mg/L
			Barium	0.023	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	<0.0010	mg/L
			Chloride	7340	mg/L
			Chromium	<0.010	mg/L
			Cobalt	<0.010	mg/L
			Conductivity (EC)	30300	µS/cm
			Copper	0.020	mg/L
			Iron	<0.10	mg/L
			Lead	<0.010	mg/L
			Manganese	0.068	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.011	mg/L
			pH	7.75	pH Unit
			Sulfate	4580	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.051	mg/L
SWL	5.19	m			
EPA ID No. 3 - GIP225	Monthly	10/06/2015	Arsenic	<0.010	mg/L
			Barium	0.022	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	0.0012	mg/L
			Chloride	5490	mg/L
			Chromium	<0.010	mg/L
			Cobalt	0.013	mg/L
			Conductivity (EC)	30900	µS/cm
			Copper	0.078	mg/L
			Iron	0.16	mg/L
			Lead	0.013	mg/L
			Manganese	0.413	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.012	mg/L
			pH	7.16	pH Unit
			Sulfate	12500	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.363	mg/L

			SWL	11.1	m
EPA ID No. 7 - GIP274	Monthly	26/06/2015	Arsenic	<0.010	mg/L
			Barium	0.015	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	<0.0010	mg/L
			Chloride	8330	mg/L
			Chromium	<0.010	mg/L
			Cobalt	<0.010	mg/L
			Conductivity (EC)	32000	µS/cm
			Copper	<0.010	mg/L
			Iron	0.20	mg/L
			Lead	<0.010	mg/L
			Manganese	0.103	mg/L
			Mercury	<0.0001	mg/L
			Nickel	<0.010	mg/L
			pH	7.55	pH Unit
			Sulfate	3210	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.107	mg/L
SWL	17.71	m			
EPA ID No. 12 - GIP290	Monthly	26/06/2015	Arsenic	<0.001	mg/L
			Barium	0.014	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0171	mg/L
			Chloride	3160	mg/L
			Chromium	<0.001	mg/L
			Cobalt	0.062	mg/L
			Conductivity (EC)	15600	µS/cm
			Copper	0.060	mg/L
			Iron	<0.05	mg/L
			Lead	0.005	mg/L
			Manganese	8.69	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.008	mg/L
			pH	7.14	pH Unit
			Sulfate	3670	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.235	mg/L
SWL	15.46	m			
EPA ID No. 13 - GIP291	Monthly	25/06/2015	Arsenic	<0.010	mg/L
			Barium	0.021	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	0.0019	mg/L
			Chloride	6460	mg/L
Chromium	<0.010	mg/L			

			Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.015 25400 0.087 0.11 <0.010 0.284 <0.0001 <0.010 7.54 2830 <0.10 0.212 9.97	mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 14 - GIP292A	Monthly	11/06/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.036 <0.010 0.082 2.92 2470 0.045 39.6 32500 186 112 <0.010 443 <0.0001 12.8 3.98 31000 0.10 188 7.07	mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 16 - GIP292AS	Monthly	11/06/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury	0.256 <0.010 0.580 7.61 1410 0.140 84.6 32400 723 1030 0.016 663 <0.0001	mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L

			Nickel	25.2	mg/L
			pH	3.33	pH Unit
			Sulfate	46000	mg/L
			Vandium	1.25	mg/L
			Zinc	449	mg/L
			SWL	7.36	m
EPA ID No. 17 - GIP293	Monthly	02/07/2015	Arsenic	0.02	mg/L
			Barium	0.01	mg/L
			Beryllium	0.01	mg/L
			Cadmium	1.66	mg/L
			Chloride	3,930.00	mg/L
			Chromium	0.01	mg/L
			Cobalt	18	mg/L
			Conductivity (EC)	40,200.00	µS/cm
			Copper	19.2	mg/L
			Iron	0.17	mg/L
			Lead	0.01	mg/L
			Manganese	471	mg/L
			Mercury	0	mg/L
			Nickel	6.58	mg/L
			pH	4.74	pH Unit
			Sulfate	32,600.00	mg/L
			Vandium	0.1	mg/L
			Zinc	66.2	mg/L
			SWL	12.84	m
EPA ID No. 18 - GIP294	Monthly	10/06/2015	Arsenic	<0.010	mg/L
			Barium	<0.010	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	2.33	mg/L
			Chloride	1970	mg/L
			Chromium	<0.010	mg/L
			Cobalt	24.2	mg/L
			Conductivity (EC)	48200	µS/cm
			Copper	73.8	mg/L
			Iron	0.97	mg/L
			Lead	<0.010	mg/L
			Manganese	191	mg/L
			Mercury	0.0003	mg/L
			Nickel	7.72	mg/L
			pH	5.56	pH Unit
			Sulfate	47400	mg/L
			Vandium	<0.10	mg/L
			Zinc	148	mg/L
			SWL	13.17	m
EPA ID	Monthly	26/06/2015	Arsenic	<0.010	mg/L

			Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.018 0.05 <0.001 0.005 <0.0001 0.002 7.63 163 <0.01 0.036 26.17	mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 22 - GIP298	Monthly	10/06/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.010 <0.010 <0.010 <0.0010 9120 <0.010 <0.010 31300 0.017 0.16 <0.010 0.067 <0.0001 <0.010 7.26 3020 <0.10 <0.050 21.36	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 23 - GIP299	Monthly	11/06/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH	<0.010 <0.010 <0.010 0.0021 6160 <0.010 <0.010 26400 0.013 0.11 <0.010 0.017 <0.0001 <0.010 7.14	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit

			Sulfate	6540	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.052	mg/L
			SWL	26.93	m
EPA ID No. 24 - GIP300	Monthly	11/06/2015	Arsenic	<0.010	mg/L
			Barium	0.042	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	0.0020	mg/L
			Chloride	8880	mg/L
			Chromium	<0.010	mg/L
			Cobalt	0.021	mg/L
			Conductivity (EC)	32900	µS/cm
			Copper	0.065	mg/L
			Iron	<0.10	mg/L
			Lead	<0.010	mg/L
			Manganese	1.22	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.038	mg/L
			pH	7.25	pH Unit
			Sulfate	5770	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.124	mg/L
			SWL	18.78	m
EPA ID No. 25 - GIP301	Monthly	25/06/2015	Arsenic	0.001	mg/L
			Barium	0.032	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	<0.0001	mg/L
			Chloride	3670	mg/L
			Chromium	<0.001	mg/L
			Cobalt	0.011	mg/L
			Conductivity (EC)	15300	µS/cm
			Copper	0.010	mg/L
			Iron	0.06	mg/L
			Lead	<0.001	mg/L
			Manganese	0.810	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.007	mg/L
			pH	7.82	pH Unit
			Sulfate	1660	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.045	mg/L
			SWL	14.99	m
EPA ID No. 26 - GIP302	Monthly	25/06/2015	Arsenic	<0.010	mg/L
			Barium	0.025	mg/L
			Beryllium	<0.010	mg/L

			Cadmium	0.0109	mg/L
			Chloride	7160	mg/L
			Chromium	<0.010	mg/L
			Cobalt	0.089	mg/L
			Conductivity (EC)	31000	µS/cm
			Copper	0.349	mg/L
			Iron	<0.10	mg/L
			Lead	<0.010	mg/L
			Manganese	2.92	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.075	mg/L
			pH	7.65	pH Unit
			Sulfate	6460	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.852	mg/L
			SWL	15.37	m