



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data October 2019



Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air

Unit 1 Out of Service 1 – 31 October 2019

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	-	-	-	-	-	-	-	-	-
2 October	-	-	-	-	-	-	-	-	-
3 October	-	-	-	-	-	-	-	-	-
4 October	-	-	-	-	-	-	-	-	-
5 October	-	-	-	-	-	-	-	-	-
6 October	-	-	-	-	-	-	-	-	-
7 October	-	-	-	-	-	-	-	-	-
8 October	-	-	-	-	-	-	-	-	-
9 October	-	-	-	-	-	-	-	-	-
10 October	-	-	-	-	-	-	-	-	-
11 October	-	-	-	-	-	-	-	-	-
12 October	-	-	-	-	-	-	-	-	-
13 October	-	-	-	-	-	-	-	-	-
14 October	-	-	-	-	-	-	-	-	-
15 October	-	-	-	-	-	-	-	-	-
16 October	-	-	-	-	-	-	-	-	-
17 October	-	-	-	-	-	-	-	-	-
18 October	-	-	-	-	-	-	-	-	-
19 October	-	-	-	-	-	-	-	-	-
20 October	-	-	-	-	-	-	-	-	-
21 October	-	-	-	-	-	-	-	-	-
22 October	-	-	-	-	-	-	-	-	-
23 October	-	-	-	-	-	-	-	-	-
24 October	-	-	-	-	-	-	-	-	-
25 October	-	-	-	-	-	-	-	-	-
26 October	-	-	-	-	-	-	-	-	-
27 October	-	-	-	-	-	-	-	-	-
28 October	-	-	-	-	-	-	-	-	-
29 October	-	-	-	-	-	-	-	-	-
30 October	-	-	-	-	-	-	-	-	-
31 October	-	-	-	-	-	-	-	-	-

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	173	201	124	20.8	25.7	18.8	247	271	229
2 October	173	197	131	19.3	21.9	17.6	235	266	216
3 October	171	218	129	19.3	23.8	16.7	237	260	213
4 October	166	199	129	20.5	22.5	17.8	266	292	251
5 October	183	249	125	21.2	24.6	19.0	238	271	228
6 October	179	244	145	21.7	25.1	18.4	248	266	224
7 October	166	180	127	19.3	21.6	18.5	240	268	224
8 October	166	178	128	19.7	23.6	17.3	254	268	226
9 October	157	176	120	20.7	23.5	19.5	262	294	237
10 October	161	175	127	21.4	24.1	20.5	266	285	234
11 October	157	167	122	21.4	25.7	20.0	253	273	235
12 October	150	168	108	22.1	26.8	20.0	268	285	240
13 October	152	194	119	22.6	24.7	20.5	254	277	225
14 October	162	198	120	22.0	25.0	20.5	263	290	237
15 October	170	192	121	19.8	27.0	16.6	241	259	221
16 October	181	197	141	18.5	20.4	17.3	243	278	213
17 October	184	212	148	17.6	19.4	16.2	229	264	210
18 October	179	204	141	18.0	19.1	16.9	220	238	198
19 October	183	206	144	18.1	20.1	15.4	210	230	178
20 October	175	206	131	18.7	20.8	16.4	224	247	193
21 October	176	192	153	19.5	20.7	18.2	241	271	212
22 October	169	198	146	19.9	23.7	17.4	237	255	223
23 October	165	178	151	20.6	22.7	19.1	220	253	199
24 October	136	176	113	23.9	27.8	19.5	208	236	173
25 October	157	167	123	18.2	26.0	15.5	193	224	174
26 October	159	207	125	16.8	18.2	16.1	185	218	169
27 October	159	191	124	19.1	20.7	17.7	170	179	164
28 October	152	201	135	19.2	20.3	17.6	187	204	170
29 October	148	165	123	18.5	22.3	16.5	212	231	195
30 October	151	173	119	18.3	19.3	17.5	230	245	209
31 October	156	168	124	18.5	21.2	17.0	213	241	177

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air

Unit 3 out of service 1 - 31 October 2019

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	-	-	-	-	-	-	-	-	-
2 October	-	-	-	-	-	-	-	-	-
3 October	-	-	-	-	-	-	-	-	-
4 October	-	-	-	-	-	-	-	-	-
5 October	-	-	-	-	-	-	-	-	-
6 October	-	-	-	-	-	-	-	-	-
7 October	-	-	-	-	-	-	-	-	-
8 October	-	-	-	-	-	-	-	-	-
9 October	-	-	-	-	-	-	-	-	-
10 October	-	-	-	-	-	-	-	-	-
11 October	-	-	-	-	-	-	-	-	-
12 October	-	-	-	-	-	-	-	-	-
13 October	-	-	-	-	-	-	-	-	-
14 October	-	-	-	-	-	-	-	-	-
15 October	-	-	-	-	-	-	-	-	-
16 October	-	-	-	-	-	-	-	-	-
17 October	-	-	-	-	-	-	-	-	-
18 October	-	-	-	-	-	-	-	-	-
19 October	-	-	-	-	-	-	-	-	-
20 October	-	-	-	-	-	-	-	-	-
21 October	-	-	-	-	-	-	-	-	-
22 October	-	-	-	-	-	-	-	-	-
23 October	-	-	-	-	-	-	-	-	-
24 October	-	-	-	-	-	-	-	-	-
25 October	-	-	-	-	-	-	-	-	-
26 October	-	-	-	-	-	-	-	-	-
27 October	-	-	-	-	-	-	-	-	-
28 October	-	-	-	-	-	-	-	-	-
29 October	-	-	-	-	-	-	-	-	-
30 October	-	-	-	-	-	-	-	-	-
31 October	-	-	-	-	-	-	-	-	-

Unit 4 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	252	273	213	17.4	18.6	16.5	284	330	259
2 October	206	278	151	17.0	23.5	12.0	291	336	251
3 October	191	211	177	12.4	13.5	11.9	263	281	239
4 October	195	210	171	12.9	14.5	10.9	259	285	242
5 October	198	208	189	13.1	13.4	12.4	254	263	241
6 October	190	227	166	14.4	15.4	13.4	279	302	259
7 October	190	210	176	12.9	13.4	12.3	267	281	254
8 October	190	207	163	13.2	16.1	11.9	278	294	267
9 October	181	199	167	13.1	14.6	12.6	291	308	277
10 October	192	203	179	13.3	15.9	12.6	307	320	286
11 October	183	227	154	13.2	14.8	12.7	287	304	276
12 October	207	221	177	13.5	15.9	12.7	307	327	289
13 October	212	235	162	14.7	15.9	12.8	309	337	287
14 October	189	214	172	13.0	13.4	12.4	297	316	281
15 October	214	234	184	13.3	15.4	11.9	283	289	270
16 October	201	239	188	13.5	22.5	12.3	279	300	236
17 October	196	213	181	12.5	13.3	11.3	247	265	227
18 October	187	201	173	13.2	14.4	11.8	253	284	234
19 October	193	208	177	13.7	14.8	12.7	239	253	220
20 October	194	213	177	13.3	14.0	12.7	252	272	227
21 October	190	206	169	14.2	16.2	13.0	277	296	248
22 October	201	233	167	14.9	16.6	13.5	271	284	259
23 October	211	232	169	14.6	16.1	13.6	265	273	252
24 October	210	242	181	14.0	15.1	13.0	236	252	206
25 October	189	209	158	14.5	16.2	13.6	239	276	207
26 October	196	217	180	15.7	16.8	15.2	221	264	199
27 October	209	226	180	18.5	21.9	15.7	201	212	195
28 October	196	219	181	20.3	22.6	18.9	219	237	196
29 October	182	214	159	16.8	23.1	13.3	246	270	219
30 October	183	196	162	14.7	15.8	14.1	270	289	256
31 October	205	236	174	15.5	17.3	14.3	257	291	218

Unit 1 Boiler Emission Test Results

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	0.2	13-14/11/2018
Carbon Dioxide (Wet)	13.8	%	-	13-14/11/2018
Carbon Monoxide	<40	ppm	-	13-14/11/2018
Chlorine	0.008	mg/m ³	200	13-14/11/2018
Copper	0.0003	mg/m ³	-	13-14/11/2018
Dry Gas Density	1.33	kg/m ³	-	13-14/11/2018
Fluoride As HF - Total	8.7	mg/m ³	50	13-14/11/2018
Hazardous Substances (Metals) - Total	≤0.0081	mg/m ³	1	13-14/11/2018
Hydrogen Chloride	14.4	mg/m ³	100	13-14/11/2018
Mercury	0.00020	mg/m ³	0.2	13-14/11/2018
Moisture	5.9	%	-	13-14/11/2018
Particulates - Total	1.2	mg/m ³	50	13-14/11/2018
Stack Gas Molecular Weight	29.9	kg/k-mole	-	13-14/11/2018
Temperature	127	degC	-	13-14/11/2018
Velocity	14	m/sec	-	13-14/11/2018
Volatile Organic Compounds (VOC) - Total	<0.02	ppm	-	13-14/11/2018
Volumetric Flow Rate (Dry At STP)	348	m ³ /sec	-	13-14/11/2018

Unit 2 Boiler Emission Test Results

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air

<u>Name</u>		<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0005	mg/m ³	0.2	19/02/2019
Carbon Dioxide (Wet)	11.9	%	-	19/02/2019
Carbon Monoxide	<40	ppm	-	19/02/2019
Chlorine	<0.007	mg/m ³	200	6/06/2019
Copper	0.0036	mg/m ³	-	19/02/2019
Dry Gas Density	1.32	kg/m ³	-	19/02/2019
Fluoride As HF - Total	5.4	mg/m ³	50	6/06/2019
Hazardous Substances (Metals) - Total	<0.033	mg/m ³	1	19/02/2019
Hydrogen Chloride	4.6	mg/m ³	100	6/06/2019
Mercury	0.00057	mg/m ³	0.2	19/02/2019
Moisture	6.8	%	-	19/02/2019
Particulates - Total	4.2	mg/m ³	50	19/02/2019
Stack Gas Molecular Weight	29.6	Kg/k-mole	-	19/02/2019
Temperature	124	degC	-	19/02/2019
Velocity	15.5	m/sec	-	19/02/2019
Volatile Organic Compounds (VOC) - Total	0.033	ppm	-	6/06/2019
Volumetric Flow Rate (Dry At STP)	351	m ³ /sec	-	19/02/2019

Unit 3 Boiler Emission Test Results

EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air

<u>Name</u>		<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	0.2	7-8 May 2019
Carbon Dioxide (Wet)	13	%	-	7-8 May 2019
Carbon Monoxide	126	ppm	-	7-8 May 2019
Chlorine	0.007	mg/m ³	200	7-8 May 2019
Copper	0.00064	mg/m ³	-	7-8 May 2019
Dry Gas Density	1.32	kg/m ³	-	7-8 May 2019
Fluoride As HF - Total	10	mg/m ³	50	7-8 May 2019
Hazardous Substances (Metals) - Total	<0.010	mg/m ³	1	7-8 May 2019
Hydrogen Chloride	9.5	mg/m ³	100	7-8 May 2019
Mercury	<0.0002	mg/m ³	0.2	7-8 May 2019
Moisture	6.7	%	-	7-8 May 2019
Particulates - Total	5.9	mg/m ³	50	7-8 May 2019
Stack Gas Molecular Weight	29.6	kg/k-mole	-	7-8 May 2019
Temperature	122	degC	-	7-8 May 2019
Velocity	15	m/sec	-	7-8 May 2019
Volatile Organic Compounds (VOC) - Total	<0.008	ppm	-	7-8 May 2019
Volumetric Flow Rate (Dry At STP)	345	m ³ /sec	-	7-8 May 2019

Unit 4 Boiler Emission Test Results

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0001	mg/m ³	0.2	20-21/08/2018
Carbon Dioxide (Wet)	13.2	%	-	20-21/08/2018
Carbon Monoxide	54	ppm	-	20-21/08/2018
Chlorine	<0.006	mg/m ³	200	20-21/08/2018
Copper	0.00054	mg/m ³	-	20-21/08/2018
Dry Gas Density	1.36	kg/m ³	-	20-21/08/2018
Fluoride As HF - Total	10.5	mg/m ³	50	20-21/08/2018
Hazardous Substances (Metals) - Total	≤0.0093	mg/m ³	1	20-21/08/2018
Hydrogen Chloride	6.7	mg/m ³	100	20-21/08/2018
Mercury	0.0013	mg/m ³	0.2	20-21/08/2018
Moisture	6.4	%	-	20-21/08/2018
Particulates - Total	2.6	mg/m ³	50	20-21/08/2018
Stack Gas Molecular Weight	29.7	kg/k-mole	-	20-21/08/2018
Temperature	121	degC	-	20-21/08/2018
Velocity	15.5	m/sec	-	20-21/08/2018
Volatile Organic Compounds (VOC) - Total	0.025	ppm	-	20-21/08/2018
Volumetric Flow Rate (Dry At STP)	370	m ³ /sec	-	20-21/08/2018

Eraring Depositional Dust Gauges

*EPA Identification no. 18, 25, 26 & 27 - Depositional dust monitoring within 1km
of the coal handling operations*

	Deposited Matter		
	g/m ² /month		
	Ash	Combustible	Insoluble
E2	0.9	0.4	1.3
E4	0.6	0.5	1.1
E6	1.2	1.3	2.5
U6	0.7	0.6	1.3

Water Quality - Lake Monitoring LM10

EPA Identification no. 4 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	19.05					
010cm	19.29	8.75	33.7	68.8	4.92	1.75
050cm	19.39	8.79	33.7	66.4	4.81	
100cm	19.42	8.79	33.7	64.3	4.63	
150cm	19.40	8.81	33.7	65.4	4.80	
200cm	19.40	8.80	33.7	62.5	4.58	
250cm	19.41	8.80	33.7	69.8	5.10	
Bottom	19.41	8.81	33.9	58.8	4.21	

Water Quality - Lake Monitoring LM12

EPA Identification no. 6 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	17.09					
010cm	19.24	8.86	34.0	65.8	4.81	2.75
050cm	19.67	8.79	33.8	62.1	4.50	
100cm	19.67	8.80	33.8	63.9	4.69	
150cm	19.62	8.81	33.8	63.5	4.55	
200cm	19.54	8.83	33.7	60.3	4.38	
250cm	19.48	8.82	33.6	64.2	4.69	
300cm	19.47	8.83	33.6	60.4	4.41	
350cm	19.41	8.82	33.6	64.2	4.76	
400cm	19.37	8.84	33.6	59.1	4.23	
450cm	19.36	8.83	33.6	64.4	4.70	
500cm	19.34	8.84	33.6	60.7	4.43	
550cm	19.23	8.85	34.0	56.5	4.08	
600cm	19.19	8.85	33.8	57.8	4.31	
650cm	19.00	8.85	33.9	52.6	3.87	
700cm	18.80	8.81	34.1	51.1	3.74	
750cm	18.71	8.80	34.2	47.3	3.44	
Bottom	18.68	8.81	34.4	43.2	3.06	

Water Quality - Lake Monitoring LM4

EPA Identification no. 7 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	17.97					
010cm	17.96	8.59	34.5	93.8	6.98	5.25
050cm	18.08	8.64	34.5	81.2	6.05	
100cm	18.07	8.64	34.5	75.8	5.64	
150cm	18.08	8.65	34.5	75.1	5.59	
200cm	18.07	8.67	34.5	75.0	5.94	
250cm	18.07	8.65	34.5	74.1	5.52	
300cm	18.07	8.65	34.5	74.0	5.49	
350cm	18.07	8.65	34.5	78.7	5.87	
400cm	18.07	8.63	34.5	81.0	6.03	
450cm	18.06	8.63	34.5	78.9	5.90	
500cm	18.07	8.63	34.5	79.5	5.93	
550cm	18.07	8.63	34.5	80.0	5.96	
600cm	18.08	8.63	34.5	79.1	5.90	
650cm	18.08	8.64	34.5	78.8	5.87	
700cm	18.10	8.63	34.5	78.6	5.84	
750cm	18.29	8.63	35.0	74.4	5.49	
800cm	18.30	8.65	35.1	71.6	5.29	
850cm	18.32	8.61	35.2	71.0	5.24	
900cm	18.30	8.61	35.2	73.8	5.43	
Bottom	18.21	8.63	35.3	71.2	5.26	

Water Quality - Lake Monitoring LM7

EPA Identification no. 5 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	20.25					
010cm	20.87	8.66	33.6	83.7	5.96	2.25
050cm	21.09	8.77	33.6	85.7	5.99	
100cm	21.00	8.70	33.7	80.3	5.73	
150cm	21.09	8.72	33.6	86.9	5.19	
200cm	21.10	8.71	33.6	85.8	5.99	
250cm	21.07	8.73	33.7	82.4	5.88	
300cm	21.10	8.72	33.7	83.6	5.91	
350cm	21.10	8.74	33.7	75.5	5.42	
400cm	21.02	8.72	33.7	80.1	5.75	
450cm	20.41	8.77	33.7	81.3	5.85	
500cm	20.10	8.77	33.8	67.6	4.81	
550cm	19.82	8.77	33.8	66.0	4.79	
600cm	19.54	8.76	33.9	58.9	4.23	
Bottom	19.42	8.75	34.1	56.4	4.10	

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 10 - Discharge point below siphon pond weir at Ash Dam

Name	Reading	Units	Licence Limit	Date
Cadmium	0.06	ug/L	-	3/10/2019
Copper	1.3	ug/L	-	3/10/2019
Iron	27	ug/L	-	3/10/2019
Lead	<0.1	ug/L	-	3/10/2019
Manganese	20.4	ug/L	-	3/10/2019
pH	9.01	pH	-	3/10/2019
Selenium	57.4	ug/L	-	3/10/2019
Total Suspended Solids	13	mg/L	-	3/10/2019
Zinc	3	ug/L	-	3/10/2019
Nitrite and Nitrate as N	5730	ug/L	-	3/10/2019
Phosphorus Reactive as P - Total	440	ug/L	-	3/10/2019
Phosphorus as P - Total	540	ug/L	-	3/10/2019

Eraring Cooling Water Inlet Canal

EPA Identification no. 8 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Copper	1.0	ug/L	-	3/10/2019
Iron	129	ug/L	-	3/10/2019
Selenium	<1	ug/L	-	3/10/2019
Temperature – Average	21.6	deg C	-	Oct 2019
Temperature – Minimum	19.3	deg C	-	Oct 2019
Temperature - Maximum	24.9	deg C	-	Oct 2019

Eraring Cooling Water Outlet Canal

EPA Identification no. 1 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	1.1	ug/L	5	3/10/2019
Iron	148	ug/L	300	3/10/2019
Selenium	1	ug/L	2	3/10/2019
Temperature – Average	27.7	deg C	37.5	Oct 2019
Temperature – Minimum	22.3	deg C	37.5	Oct 2019
Temperature - Maximum	31.7	deg C	37.5	Oct 2019
Maximum Daily Discharge from Ash Dam	6.07	ML	150	Oct 2019
Monthly Discharge from Ash Dam	53.8	ML	-	Oct 2019

Emergency Discharge – Toe Drain Pond

EPA Identification no. 17 - Emergency discharge to toe drain collection pond

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Nitrite and Nitrate as N	227	ug/L	-	3/10/2019
Phosphorus as P – Total	8	ug/L	-	3/10/2019
Cadmium	<0.05	ug/L	-	3/10/2019
Copper	<0.5	ug/L	-	3/10/2019
Iron	2970	ug/L	-	3/10/2019
Lead	<0.1	ug/L	-	3/10/2019
Manganese	940	ug/L	-	3/10/2019
pH	6.93	ug/L	-	3/10/2019
Selenium	0.3	ug/L	-	3/10/2019
Zinc	3	ug/L	-	3/10/2019

Groundwater Monitoring

Groundwater Well – MW01

EPA Identification no. 21 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Arsenic	<0.2	ug/L	27/06/2019
Cadmium	<0.05	ug/L	27/06/2019
Calcium	<1000	ug/L	27/06/2019
Chromium	0.7	ug/L	27/06/2019
Copper	4.2	ug/L	27/06/2019
Electrical Conductivity	0.350	mS/cm	27/06/2019
Iron	89	ug/L	27/06/2019
Lead	0.7	ug/L	27/06/2019
Magnesium	4000	ug/L	27/06/2019
Manganese	55.7	ug/L	27/06/2019
Nickel	6.0	ug/L	27/06/2019
pH	4.87	pH	27/06/2019
Potassium	4000	ug/L	27/06/2019
Selenium	<0.2	ug/L	27/06/2019
Standing Water Level	9.72	metres	27/06/2019
Zinc	151	ug/L	27/06/2019

Groundwater Well – MW02

EPA Identification no. 22 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Arsenic	23.4	ug/L	19/06/2019
Cadmium	0.02	ug/L	19/06/2019
Calcium	328000	ug/L	19/06/2019
Chromium	1.6	ug/L	19/06/2019
Copper	1.1	ug/L	19/06/2019
Electrical Conductivity	13.200	mS/cm	19/06/2019
Iron	9070	ug/L	19/06/2019
Lead	1.3	ug/L	19/06/2019
Magnesium	206000	ug/L	19/06/2019
Manganese	1290	ug/L	19/06/2019
Nickel	2.3	ug/L	19/06/2019
pH	6.40	pH	19/06/2019
Potassium	101000	ug/L	19/06/2019
Selenium	<2.0	ug/L	19/06/2019
Standing Water Level	4.32	metres	19/06/2019
Zinc	25	ug/L	19/06/2019

Groundwater Well – MW06

EPA Identification no. 23 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Arsenic	7.0	ug/L	19/06/2019
Cadmium	<0.02	ug/L	19/06/2019
Calcium	469000	ug/L	19/06/2019
Chromium	0.8	ug/L	19/06/2019
Copper	<1.0	ug/L	19/06/2019
Electrical Conductivity	17.000	mS/cm	19/06/2019
Iron	14000	ug/L	19/06/2019
Lead	<0.2	ug/L	19/06/2019
Magnesium	263000	ug/L	19/06/2019
Manganese	400	ug/L	19/06/2019
Nickel	1.2	ug/L	19/06/2019
pH	6.52	pH	19/06/2019
Potassium	122000	ug/L	19/06/2019
Selenium	<2.0	ug/L	19/06/2019
Standing Water Level	1.81	metres	19/06/2019
Zinc	<5	ug/L	19/06/2019

Groundwater Well – EGM/D26

EPA Identification no. 24 – Groundwater Monitoring Well D26

Groundwater well was dry during sampling in June 2019

Name	Reading	Units	Date
Arsenic		ug/L	
Cadmium		ug/L	
Calcium		ug/L	
Chromium		ug/L	
Copper		ug/L	
Electrical Conductivity		mS/cm	
Iron		ug/L	
Lead		ug/L	
Magnesium		ug/L	
Manganese		ug/L	
Nickel		ug/L	
pH		pH	
Potassium		ug/L	
Selenium		ug/L	
Standing Water Level		metres	
Zinc		ug/L	