



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data

July 2019



Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 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 July	156	172	103	12.7	13.5	10.9	210	238	149
2 July	141	152	116	13.6	16.3	11.9	214	244	182
3 July	138	147	112	12.9	14.4	10.3	227	253	201
4 July	142	152	123	14.1	17.5	11.3	228	250	197
5 July	141	157	112	14.7	19.1	11.7	198	232	170
6 July	126	143	109	16.4	20.3	12.3	199	227	162
7 July	161	187	110	15.6	21.6	13.6	227	254	216
8 July	174	185	137	15.4	21.1	13.8	220	250	188
9 July	180	220	155	13.5	14.3	12.3	230	275	185
10 July	182	198	140	13.4	14.2	12.7	224	250	206
11 July	175	196	143	12.9	14.8	11.6	203	232	182
12 July	174	188	145	13.0	15.8	12.6	240	258	214
13 July	180	207	140	12.3	13.0	11.5	204	258	162
14 July	174	189	149	13.1	14.0	12.5	174	189	164
15 July	170	199	129	13.7	14.7	13.0	182	197	159
16 July	171	212	145	13.7	14.7	13.2	185	242	119
17 July	167	196	106	13.4	14.4	11.7	190	245	133
18 July	176	195	154	14.1	29.3	12.2	193	220	146
19 July	164	225	138	14.9	26.6	13.1	234	251	188
20 July	160	185	139	13.9	16.7	12.6	213	239	170
21 July	168	197	141	13.9	15.1	12.6	188	249	158
22 July	173	202	142	13.0	14.1	11.9	216	230	190
23 July	190	223	144	13.6	16.2	12.9	216	253	198
24 July	188	211	157	13.7	21.5	12.3	202	247	166
25 July	184	212	159	13.6	16.0	12.9	219	249	191
26 July	178	204	156	15.0	17.6	13.4	214	242	196
27 July	169	195	139	14.7	15.4	13.8	190	210	159
28 July	166	182	146	15.0	17.1	13.6	200	211	182
29 July	177	192	145	14.9	17.1	13.4	184	213	147
30 July	173	188	143	13.8	14.5	12.9	196	212	179
31 July	174	186	140	15.3	17.6	13.4	199	226	165

Unit 2 Boiler Continuous Emission Monitoring Summary

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

Unit 2 out of service 5-13 July 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 July	143	158	118	22.7	26.1	18.8	224	253	186
2 July	138	153	113	22.4	28.4	18.7	222	262	188
3 July	148	166	118	22.5	25.6	18.7	226	255	209
4 July	136	163	103	21.6	27.7	17.8	239	252	219
5 July	-	-	-	-	-	-	-	-	-
6 July	-	-	-	-	-	-	-	-	-
7 July	-	-	-	-	-	-	-	-	-
8 July	-	-	-	-	-	-	-	-	-
9 July	-	-	-	-	-	-	-	-	-
10 July	-	-	-	-	-	-	-	-	-
11 July	-	-	-	-	-	-	-	-	-
12 July	-	-	-	-	-	-	-	-	-
13 July	-	-	-	-	-	-	-	-	-
14 July	158	165	151	18.4	26.8	15.8	206	211	200
15 July	153	181	113	21.4	36.5	16.0	216	231	196
16 July	160	186	135	21.1	24.4	16.0	195	231	140
17 July	154	179	121	20.5	24.8	15.8	229	276	178
18 July	165	186	134	21.3	26.4	16.9	219	255	173
19 July	153	184	119	21.2	25.9	17.5	258	293	225
20 July	167	190	132	21.7	27.9	17.5	222	252	178
21 July	173	214	132	21.7	25.9	16.6	203	266	163
22 July	168	207	139	21.0	25.1	16.6	218	244	180
23 July	183	215	124	20.9	24.3	17.5	210	247	185
24 July	158	193	127	20.8	25.5	17.3	206	257	172
25 July	170	204	127	21.6	25.1	17.2	210	233	184
26 July	165	189	127	21.9	27.3	18.4	208	232	180
27 July	162	187	123	21.7	24.7	17.8	198	217	161
28 July	163	197	140	23.0	29.0	18.5	202	233	184
29 July	163	191	123	25.8	31.1	21.5	192	212	156
30 July	142	175	121	20.9	27.9	18.2	193	224	177
31 July	141	175	110	20.8	26.1	17.8	200	225	172

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 20-26 July 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 July	230	257	197	5.5	5.9	5.3	237	286	208
2 July	196	236	130	5.3	5.4	4.9	234	258	191
3 July	180	210	150	5.4	5.4	4.9	244	271	193
4 July	186	218	120	5.5	5.9	5.4	240	249	211
5 July	194	218	168	5.2	5.4	4.8	212	232	175
6 July	149	190	119	5.2	5.8	4.8	210	252	164
7 July	167	198	110	5.2	6.3	4.7	239	280	225
8 July	172	192	116	5.3	6.2	4.7	231	245	205
9 July	171	218	121	5.4	8.4	5.2	256	281	196
10 July	139	182	110	7.2	8.9	5.3	282	318	247
11 July	179	207	148	5.7	5.8	4.8	215	244	198
12 July	181	220	120	5.5	5.8	5.3	261	279	228
13 July	195	217	132	5.4	5.9	5.3	230	284	186
14 July	201	225	175	5.4	5.9	5.3	191	198	164
15 July	188	215	136	5.6	7.3	5.3	199	211	181
16 July	173	207	122	5.5	5.8	5.2	200	213	175
17 July	170	217	134	5.6	6.5	5.4	240	277	190
18 July	194	215	137	5.4	5.5	4.9	216	258	175
19 July	168	193	136	5.7	8.1	5.4	275	313	228
20 July	-	-	-	-	-	-	-	-	-
21 July	-	-	-	-	-	-	-	-	-
22 July	-	-	-	-	-	-	-	-	-
23 July	-	-	-	-	-	-	-	-	-
24 July	-	-	-	-	-	-	-	-	-
25 July	-	-	-	-	-	-	-	-	-
26 July	-	-	-	-	-	-	-	-	-
27 July	144	212	110	6.9	10.3	5.4	223	278	203
28 July	163	188	128	5.7	6.0	5.4	239	258	211
29 July	186	219	137	5.9	6.0	5.5	215	239	193
30 July	185	203	139	6.2	6.5	6.0	222	240	205
31 July	190	204	160	7.1	7.6	6.5	224	259	210

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 July	229	270	178	19.4	25.2	13.8	283	303	238
2 July	222	248	202	15.7	18.6	13.7	273	320	235
3 July	199	209	183	19.7	24.1	14.8	272	308	243
4 July	202	216	185	19.3	31.7	12.7	281	333	239
5 July	199	213	183	14.5	18.0	12.8	252	308	208
6 July	192	208	177	14.9	17.6	13.4	261	293	223
7 July	196	217	173	14.6	17.2	13.1	287	336	256
8 July	208	228	175	14.9	17.3	13.1	274	310	232
9 July	198	230	172	15.0	17.5	14.2	270	331	229
10 July	182	191	154	18.7	23.1	15.7	251	291	216
11 July	188	196	181	19.3	25.8	13.1	223	249	194
12 July	199	206	181	14.6	23.0	13.0	257	294	219
13 July	194	207	177	13.3	17.2	12.1	226	280	169
14 July	182	197	166	14.2	24.4	12.1	186	204	170
15 July	184	210	160	18.5	29.7	12.5	194	218	171
16 July	182	192	165	13.7	17.0	12.6	200	231	176
17 July	173	190	157	13.9	16.1	12.0	240	288	192
18 July	184	195	166	13.7	23.4	11.7	222	262	179
19 July	174	199	161	12.5	16.0	10.8	269	300	226
20 July	185	213	169	13.8	17.4	11.5	230	272	175
21 July	183	199	169	15.0	18.1	12.1	276	296	239
22 July	188	197	176	15.0	17.2	12.5	251	284	216
23 July	201	228	186	14.4	16.4	12.5	245	292	204
24 July	189	203	158	14.1	16.7	13.0	219	265	163
25 July	189	232	169	14.2	18.3	12.6	236	272	220
26 July	176	194	164	13.9	17.5	11.9	229	256	210
27 July	182	205	156	13.5	15.5	11.4	219	252	192
28 July	187	208	169	14.0	15.8	11.7	234	265	200
29 July	196	216	179	13.6	15.8	12.1	224	257	197
30 July	181	201	159	13.1	14.2	12.2	221	239	198
31 July	189	207	168	13.3	15.6	11.9	243	278	220

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

Emergency Turbine Generator Emission Test Results

EPA Identification no. 19 - Air emissions monitoring, Emergency Turbine Generator Stack discharge to air

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence</u>	<u>Date</u>
Nitrogen oxides	81	mg/m ³	86	9/05/2019
Solid Particles	2.5	mg/m ³	20	9/05/2019
Carbon Dioxide	4.1	%		9/05/2019
Dry gas density	1.31	kg/m ³		9/05/2019
Moisture	4.8	%		9/05/2019
Molecular weight of stack gas	29.4	g/g		9/05/2019
Oxygen	15	%		9/05/2019
Velocity	25	m/s		9/05/2019
Volumetric flowrate	86	m ³ /s		9/05/2019

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	2.3	0.4	2.7
E4	0.6	0.9	1.5
E6	0.2	0.1	0.3
U6	0.3	0.2	0.5

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	18.2					
010cm	16.14	8.67	35.8	49.4	4.06	3.00
050cm	16.03	8.65	35.9	50.3	3.82	
100cm	15.99	8.65	35.9	47.2	3.61	
150cm	15.98	8.65	35.9	42.6	3.24	
200cm	15.92	8.64	36.0	37.3	2.81	
250cm	15.92	8.64	36.0	33.2	2.53	
Bottom	15.95	8.63	36.0	26.7	2.02	

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	12.1					
010cm	15.50	8.68	35.6	79.0	4.88	3.75
050cm	15.96	8.59	35.7	48.6	3.76	
100cm	16.00	8.56	35.6	52.8	4.04	
150cm	16.21	8.57	35.5	56.9	4.39	
200cm	16.26	8.59	36.0	62.8	4.80	
250cm	16.31	8.57	36.0	67.1	5.13	
300cm	16.31	8.55	36.0	70.3	5.37	
350cm	16.29	8.55	36.0	73.4	5.61	
400cm	16.31	8.55	36.0	76.6	5.84	
450cm	16.33	8.55	36.0	79.7	6.08	
500cm	16.34	8.57	36.0	83.8	6.40	
550cm	16.50	8.58	36.3	88.8	6.73	
600cm	16.60	8.58	36.3	90.5	6.86	
650cm	16.69	8.58	36.4	93.4	7.06	
Bottom	16.71	8.59	36.5	96.5	7.28	

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	14.6					
010cm	15.90	8.50	35.9	71.4	5.46	2.25
050cm	16.10	8.55	36.0	71.9	5.51	
100cm	16.12	8.55	36.0	74.3	5.74	
150cm	16.12	8.56	36.0	75.2	5.73	
200cm	16.13	8.56	36.1	75.3	5.75	
250cm	16.12	8.57	36.1	76.1	5.81	
300cm	16.09	8.57	36.4	82.3	6.27	
350cm	16.07	8.58	36.4	82.1	6.27	
400cm	16.07	8.58	36.4	81.8	6.25	
450cm	16.04	8.58	36.4	81.3	6.20	
500cm	16.03	8.58	36.4	80.2	6.11	
550cm	16.05	8.58	36.4	80.8	6.14	
600cm	16.04	8.58	36.4	80.3	6.13	
650cm	16.03	8.59	36.4	79.7	6.09	
700cm	16.03	8.59	36.4	84.1	6.43	
750cm	16.04	8.59	36.4	84.2	6.44	
800cm	16.03	8.60	36.4	82.9	6.34	
850cm	16.03	8.60	36.4	85.1	6.49	
900cm	16.03	8.60	36.4	84.8	6.48	
950cm	16.03	8.60	36.4	83.5	6.36	
Bottom	16.03	8.59	36.3	82.1	6.33	

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	16.3					
010cm	20.44	8.56	35.3	81.8	5.87	2.75
050cm	20.63	8.55	36.3	89.5	6.44	
100cm	20.73	8.55	36.3	101.5	7.12	
150cm	20.71	8.56	36.4	87.6	6.00	
200cm	20.72	8.56	36.3	83.5	5.85	
250cm	20.73	8.56	36.3	84.1	5.89	
300cm	20.73	8.56	36.3	82.0	5.73	
350cm	20.73	8.56	36.3	76.0	5.23	
400cm	20.74	8.56	36.3	62.0	4.98	
450cm	20.70	8.57	36.3	51.2	3.56	
500cm	18.73	8.59	36.3	41.8	3.02	
550cm	17.09	8.57	36.3	32.5	2.35	
Bottom	16.96	8.61	36.3	29.2	2.12	

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	0.12	ug/L	-	4/07/2019
Copper	1.8	ug/L	-	4/07/2019
Iron	34	ug/L	-	4/07/2019
Lead	0.1	ug/L	-	4/07/2019
Manganese	50.3	ug/L	-	4/07/2019
pH	8.90	pH	-	4/07/2019
Selenium	81.7	ug/L	-	4/07/2019
Total Suspended Solids	19	mg/L	-	4/07/2019
Zinc	<1	ug/L	-	4/07/2019
Nitrite and Nitrate as N	6800	ug/L	-	4/07/2019
Phosphorus Reactive as P - Total	770	ug/L	-	4/07/2019
Phosphorus as P - Total	750	ug/L	-	4/07/2019

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	1.5	ug/L	-	4/07/2019
Iron	124	ug/L	-	4/07/2019
Selenium	<1	ug/L	-	4/07/2019
Temperature – Average	15.5	deg C	-	July 2019
Temperature – Minimum	12.2	deg C	-	July 2019
Temperature - Maximum	18.2	deg C	-	July 2019

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	2.1	ug/L	5	4/07/2019
Iron	134	ug/L	300	4/07/2019
Selenium	2	ug/L	2	4/07/2019
Temperature – Average	23.4	deg C	37.5	July 2019
Temperature – Minimum	18.1	deg C	37.5	July 2019
Temperature - Maximum	26.9	deg C	37.5	July 2019
Maximum Daily Discharge from Ash Dam	31.70	ML	150	July 2019
Monthly Discharge from Ash Dam	354.6	ML	-	July 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	70	ug/L	-	4/07/2019
Phosphorus as P – Total	310	ug/L	-	4/07/2019
Cadmium	<0.05	ug/L	-	4/07/2019
Copper	<0.5	ug/L	-	4/07/2019
Iron	5610	ug/L	-	4/07/2019
Lead	<0.1	ug/L	-	4/07/2019
Manganese	879	ug/L	-	4/07/2019
pH	6.69	ug/L	-	4/07/2019
Selenium	0.3	ug/L	-	4/07/2019
Zinc	8	ug/L	-	4/07/2019

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	