Eraring Power Station - EPA Licence 1429
Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data January 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Data Invalidated 3, 9, & 11 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	551	596	477	1041	1098	965
2 January	548	592	465	1036	1140	911
3 January	-	-	-	-	-	-
4 January	561	620	482	973	1068	878
5 January	510	606	419	875	1129	737
6 January	530	602	427	929	1030	784
7 January	549	618	474	980	1093	827
8 January	591	633	525	1047	1189	952
9 January	-	-	-	-	-	-
10 January	577	628	479	1079	1216	924
11 January	-	-	-	-	-	-
12 January	514	583	440	963	1058	854
13 January	476	573	372	881	926	823
14 January	464	533	380	816	916	662
15 January	511	566	437	867	1003	782
16 January	508	596	393	827	923	685
17 January	451	510	397	834	914	651
18 January	497	557	440	939	1115	712
19 January	471	557	363	808	851	740
20 January	446	524	367	786	928	664
21 January	481	560	400	965	1100	766
22 January	466	534	408	756	882	660
23 January	511	560	447	873	926	740
24 January	479	533	407	842	931	733
25 January	484	541	408	926	1076	808
26 January	475	520	435	892	990	791
27 January	493	535	420	906	963	786
28 January	489	592	386	966	1072	848
29 January	525	589	441	979	1098	820
30 January	532	619	440	933	1067	817
31 January	475	563	392	873	1010	753

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data invalidated 9 & 11 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	460	497	428	1089	1141	1061
2 January	453	497	393	1051	1112	967
3 January	455	496	401	1111	1163	1067
4 January	445	478	400	991	1065	886
5 January	428	501	374	967	1133	872
6 January	460	495	376	997	1039	906
7 January	481	539	425	1016	1082	968
8 January	496	555	435	1050	1153	982
9 January	-	-	-	-	-	-
10 January	469	552	380	1120	1226	949
11 January	-	-	-	-	-	-
12 January	430	491	370	986	1083	902
13 January	422	470	366	906	944	844
14 January	419	470	370	975	1121	846
15 January	437	480	387	916	996	816
16 January	429	461	375	876	1011	761
17 January	414	442	375	882	982	781
18 January	430	481	371	946	1087	837
19 January	411	473	323	815	892	731
20 January	393	445	348	831	993	692
21 January	420	482	357	972	1044	825
22 January	401	443	374	819	932	764
23 January	436	505	373	891	950	782
24 January	407	461	348	848	955	770
25 January	416	474	377	925	977	880
26 January	399	442	372	910	1009	826
27 January	428	457	387	952	997	849
28 January	437	494	347	979	1080	895
29 January	441	480	374	959	1014	821
30 January	420	474	356	898	1022	800
31 January	415	477	355	876	977	818

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 4, 9, & 11 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	375	455	325	794	954	621
2 January	370	425	340	730	890	604
3 January	369	412	332	718	879	641
4 January	-	-	-	-	-	-
5 January	370	437	329	718	907	581
6 January	390	477	340	709	824	528
7 January	399	431	356	666	783	518
8 January	410	446	387	601	721	539
9 January	-	-	-	-	-	-
10 January	394	458	369	619	815	502
11 January	-	-	-	-	-	-
12 January	367	409	322	612	879	469
13 January	344	409	281	590	800	482
14 January	355	449	249	678	932	523
15 January	362	393	342	567	733	427
16 January	376	433	284	567	743	425
17 January	367	404	307	682	793	583
18 January	352	398	276	661	760	553
19 January	366	423	335	583	711	444
20 January	326	382	240	720	912	484
21 January	344	403	259	658	827	469
22 January	363	408	330	578	704	434
23 January	357	400	328	620	764	490
24 January	383	414	339	595	717	479
25 January	393	498	351	560	685	494
26 January	366	408	345	620	729	468
27 January	365	394	324	607	792	498
28 January	364	411	317	573	795	479
29 January	378	410	319	581	832	474
30 January	371	397	343	514	712	433
31 January	376	397	353	554	699	443

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Data Invalidated 4, 9, & 11 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	507	628	386	1080	1118	1038
2 January	503	587	393	1039	1090	972
3 January	522	574	451	1065	1116	981
4 January	-	-	-	-	-	-
5 January	461	559	385	937	1102	814
6 January	475	540	394	923	1001	842
7 January	511	605	424	943	993	897
8 January	616	679	486	999	1112	938
9 January						
10 January	567	615	474	985	1156	901
11 January	-	-	-	-	-	-
12 January	517	581	393	905	1053	736
13 January	489	574	392	895	1021	755
14 January	467	573	303	934	1097	787
15 January	506	526	444	880	1038	693
16 January	501	603	346	807	924	708
17 January	439	488	357	858	943	762
18 January	471	582	346	926	1043	772
19 January	487	556	379	802	909	714
20 January	413	543	298	908	1056	785
21 January	441	581	314	866	994	776
22 January	458	530	396	801	873	734
23 January	520	585	414	932	1107	717
24 January	522	590	426	870	954	808
25 January	558	632	416	897	974	825
26 January	488	575	414	886	948	772
27 January	513	649	387	922	981	765
28 January	525	609	396	913	991	884
29 January	574	629	402	956	1014	821
30 January	579	643	440	872	986	774
31 January	529	608	429	798	907	706

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	332	428	256	883	920	855
2 January	364	473	233	861	906	811
3 January	390	462	282	900	929	861
4 January	354	445	233	817	887	770
5 January	319	403	254	829	953	741
6 January	363	446	279	817	890	765
7 January	338	428	234	804	843	782
8 January	395	463	313	796	838	754
9 January	393	444	289	805	858	706
10 January	384	433	279	801	900	700
11 January	384	432	236	794	830	735
12 January	363	439	248	799	863	735
13 January	335	404	231	799	884	754
14 January	339	403	222	806	960	698
15 January	344	399	271	806	874	762
16 January	325	416	219	714	786	663
17 January	295	324	245	745	802	680
18 January	319	419	247	768	839	671
19 January	339	413	226	686	756	628
20 January	311	397	243	754	887	661
21 January	347	410	252	765	827	672
22 January	288	407	213	691	739	641
23 January	275	327	221	774	848	667
24 January	336	428	244	697	796	617
25 January	379	435	230	720	753	699
26 January	305	437	248	767	864	712
27 January	381	493	281	756	836	680
28 January	360	485	233	801	863	734
29 January	408	449	379	846	918	738
30 January	375	439	290	758	840	665
31 January	326	424	252	709	814	668

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 1, 2, 23, & 30 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	-	-	-
2 January	-	-	-	-	-	-
3 January	341	386	268	747	806	695
4 January	309	377	218	678	733	643
5 January	273	298	231	696	797	625
6 January	296	361	237	665	714	616
7 January	278	339	209	666	713	611
8 January	313	350	277	634	683	595
9 January	317	357	236	651	692	572
10 January	323	355	243	652	746	565
11 January	328	367	205	647	672	599
12 January	309	363	227	655	727	598
13 January	282	329	195	666	773	600
14 January	280	322	195	662	795	586
15 January	298	344	238	649	725	595
16 January	279	349	203	578	652	524
17 January	250	273	215	613	653	567
18 January	260	323	214	620	660	567
19 January	276	327	210	563	621	521
20 January	254	307	207	632	747	574
21 January	277	330	207	629	701	538
22 January	241	330	190	576	623	520
23 January	-	-	-	-	-	-
24 January	271	334	205	570	628	521
25 January	303	345	193	571	639	544
26 January	249	345	199	627	714	533
27 January	299	366	233	597	695	552
28 January	273	360	183	629	720	549
29 January	301	339	271	603	640	534
30 January	-	-	-	-	-	-
31 January	270	346	213	580	668	535

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 1 & 2 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	-	-	-
2 January	-	-	-	-	-	-
3 January	331	486	198	739	984	558
4 January	298	419	199	598	721	504
5 January	334	388	306	661	879	567
6 January	381	476	303	692	868	482
7 January	390	448	301	782	912	570
8 January	438	474	409	806	922	680
9 January	440	467	411	810	881	704
10 January	440	463	375	837	934	679
11 January	437	463	375	779	874	706
12 January	426	456	384	782	904	739
13 January	373	455	282	746	819	636
14 January	390	462	289	633	711	500
15 January	407	448	375	696	813	596
16 January	388	456	333	642	725	539
17 January	376	404	351	696	829	526
18 January	377	429	328	768	898	550
19 January	398	453	354	677	742	642
20 January	400	434	348	704	790	625
21 January	396	438	348	782	925	663
22 January	373	422	344	634	706	577
23 January	365	409	342	689	817	579
24 January	384	409	354	730	828	633
25 January	408	449	320	758	828	670
26 January	400	452	356	756	861	686
27 January	412	474	375	746	801	634
28 January	405	471	323	772	844	714
29 January	421	459	390	818	882	728
30 January	419	452	389	723	802	564
31 January	401	451	367	696	781	595

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Offline 1 & 2 January 2024

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	-	-	-
2 January	-	-	-	-	-	-
3 January	257	363	185	579	798	279
4 January	255	354	184	640	853	452
5 January	206	225	187	539	642	440
6 January	241	346	187	539	606	468
7 January	249	283	204	542	597	502
8 January	285	308	267	553	595	527
9 January	277	290	257	569	605	531
10 January	272	289	256	590	662	512
11 January	260	280	247	521	563	460
12 January	267	324	235	543	592	503
13 January	261	360	189	530	586	471
14 January	269	342	186	554	626	478
15 January	271	295	251	540	605	499
16 January	265	285	247	490	545	451
17 January	271	309	238	491	545	413
18 January	267	309	253	533	618	423
19 January	287	340	255	493	542	415
20 January	285	363	259	530	573	410
21 January	281	338	249	539	617	479
22 January	262	274	252	461	494	424
23 January	276	310	261	485	558	395
24 January	260	285	240	485	524	426
25 January	260	287	227	505	552	474
26 January	287	320	263	538	574	461
27 January	280	318	263	558	601	494
28 January	286	316	255	553	588	517
29 January	286	298	271	572	608	537
30 January	289	302	274	506	576	429
31 January	282	300	259	507	566	471

Unit 1 Boiler Emission Test Results

EPA Identification no. 3 - Air emissions monitoring, Boiler 1 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.01	mg/m^3	20	18/04/2023
Fluorine	14	mg/m^3	30	18/04/2023
Hydrogen chloride	15	mg/m^3	50	18/04/2023
Solid Particles	1.6	mg/m^3	50	18/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m^3	100	18/04/2023
Volatile organic compounds as n-propane equivalent	0.18	mg/m^3	10	18/04/2023
Cadmium	<0.0002	mg/m^3	0.2	28/02/2023
Mercury	<0.0004	mg/m^3	0.05	28/02/2023
Solid Particles	3.7	mg/m^3	50	1/11/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m^3	0.75	28/02/2023

EPA Identification no. 7 - Air emissions monitoring, Boiler 1 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	350	m3/sec		31/10/2023
Moisture	5.5	%		31/10/2023
Oxygen	8.2	%		31/10/2023
Solid Particles	3.4	mg/m3		31/10/2023
Temperature	119	degC		31/10/2023
Carbon dioxide	11.7	%		31/10/2023
Chlorine	<0.01	mg/m3		31/10/2023
Fluorine	8.2	mg/m3		31/10/2023
Hydrogen chloride	9.2	mg/m3		31/10/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	3.4	mg/m3		31/10/2023
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3		31/10/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	230	m3/sec		28/02/2023
Mercury	0.00044	mg/m3		28/02/2023
Moisture	5.7	%		28/02/2023
Oxygen	8.3	%		28/02/2023
Solid Particles	1.5	mg/m3		28/02/2023
Temperature	110	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m3		28/02/2023
Carbon dioxide	10.9	%		28/02/2023

EPA Identification no. 8 - Air emissions monitoring, Boiler 1 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	330	m3/sec		1/11/2023
Moisture	5.1	%		1/11/2023
Oxygen	7	%		1/11/2023
Solid Particles	3.9	mg/m3		1/11/2023
Temperature	114	degC		1/11/2023
Carbon dioxide	13.2	%		1/11/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	<0.0003	mg/m3		28/02/2023
Moisture	5.0	%		28/02/2023
Oxygen	8.8	%		28/02/2023
Solid Particles	1.9	mg/m3		28/02/2023
Temperature	109	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.041	mg/m3		28/02/2023
Carbon dioxide	11.3	%		28/02/2023

Unit 2 Boiler Emission Test Results

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.02	mg/m^3	20	3/05/2023
Fluorine	12	mg/m^3	30	3/05/2023
Hydrogen chloride	15	mg/m^3	50	3/05/2023
Solid Particles	13	mg/m^3	50	5/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	0.92	mg/m^3	100	3/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3	10	3/05/2023
Cadmium	<0.0003	mg/m^3	0.2	28/02/2023
Mercury	0.0024	mg/m^3	0.05	28/02/2023
Solid Particles	16	mg/m3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	28/02/2023

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	280	m3/sec		5/12/2023
Moisture	5.2	%		5/12/2023
Oxygen	7.6	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	119	degC		5/12/2023
Carbon dioxide	12	%		5/12/2023
Chlorine	<0.01	mg/m3		5/12/2023
Fluorine	9.7	mg/m3		5/12/2023
Hydrogen chloride	9.7	mg/m3		5/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.3	mg/m3		5/12/2023
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		5/12/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	240	m3/sec		28/02/2023
Mercury	0.0023	mg/m3		28/02/2023
Moisture	5.8	%		28/02/2023
Oxygen	10.3	%		28/02/2023
Solid Particles	29	mg/m3		28/02/2023
Temperature	124	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.11	mg/m3		28/02/2023
Carbon dioxide	9.5	%		28/02/2023

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	280	m3/sec		5/12/2023
Moisture	4.7	%		5/12/2023
Oxygen	7.3	%		5/12/2023
Solid Particles	13	mg/m3		5/12/2023
Temperature	122	degC		5/12/2023
Carbon dioxide	12.2	%		5/12/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	0.0025	mg/m3		28/02/2023
Moisture	5.9	%		28/02/2023
Oxygen	9.0	%		28/02/2023
Solid Particles	2.4	mg/m3		28/02/2023
Temperature	118	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m3		28/02/2023
Carbon dioxide	10.3	%		28/02/2023

Unit 3 Boiler Emission Test Results

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.01	mg/m3	20	19/04/2023
Fluorine	9.2	mg/m3	30	19/04/2023
Hydrogen chloride	19	mg/m3	50	19/04/2023
Solid Particles	8.4	mg/m3	50	6/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.4	mg/m3	100	19/04/2023
Volatile organic compounds as n-propane equivalent	0.76	mg/m3	10	19/04/2023
Cadmium	<0.0003	mg/m3	0.2	1/03/2023
Mercury	0.00058	mg/m3	0.05	1/03/2023
Solid Particles	4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m3	0.75	1/03/2023

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		6/12/2023
Moisture	5.8	%		6/12/2023
Oxygen	6.6	%		6/12/2023
Solid Particles	9.7	mg/m3		6/12/2023
Temperature	124	degC		6/12/2023
Carbon dioxide	12.5	%		6/12/2023
Chlorine	0.03	mg/m3		6/12/2023
Fluorine	19	mg/m3		6/12/2023
Hydrogen chloride	20	mg/m3		6/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m3		6/12/2023
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		6/12/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	320	m3/sec		1/03/2023
Mercury	0.00052	mg/m3		1/03/2023
Moisture	3.9	%		1/03/2023
Oxygen	12.2	%		1/03/2023
Solid Particles	3	mg/m3		1/03/2023
Temperature	92	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		1/03/2023
Carbon dioxide	7.6	%		1/03/2023

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	300	m3/sec		6/12/2023
Moisture	6.6	%		6/12/2023
Oxygen	6.9	%		6/12/2023
Solid Particles	7.3	mg/m3		6/12/2023
Temperature	119	degC		6/12/2023
Carbon dioxide	13.2	%		6/12/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	240	m3/sec		1/03/2023
Mercury	0.00065	mg/m3		1/03/2023
Moisture	5.6	%		1/03/2023
Oxygen	9.9	%		1/03/2023
Solid Particles	5.3	mg/m3		1/03/2023
Temperature	113	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.052	mg/m3		1/03/2023
Carbon dioxide	10.1	%		1/03/2023

Unit 4 Boiler Emission Test Results

EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air

Name	Reading	Units	Licence Limit	Date
Chlorine	0.03	mg/m3	20	5/05/2023
Fluorine	7.4	mg/m3	30	5/05/2023
Hydrogen chloride	8.2	mg/m3	50	5/05/2023
Solid Particles	18	mg/m3	50	7/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	2.0	mg/m3	100	5/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m3	10	5/05/2023
Cadmium	<0.0002	mg/m3	0.2	1/03/2023
Mercury	0.0016	mg/m3	0.05	1/03/2023
Solid Particles	5.4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	1/03/2023

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 Exhaust Duct A

Name	Reading	Units	Licence Limit	Date
Flow Rate	370	m^3/sec		7/12/2023
Moisture	5.5	%		7/12/2023
Oxygen	7.7	%		7/12/2023
Solid Particles	7.3	mg/m^3		7/12/2023
Temperature	122	degC		7/12/2023
Carbon dioxide	12.5	%		7/12/2023
Chlorine	0.025	mg/m^3		7/12/2023
Fluorine	16	mg/m^3		7/12/2023
Hydrogen chloride	15	mg/m^3		7/12/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.0	mg/m^3		7/12/2023
Volatile organic compounds as n-propane equivalent	0.16	mg/m^3		7/12/2023
Cadmium	<0.0003	mg/m^3		1/03/2023
Flow Rate	240	m^3/sec		1/03/2023
Mercury	0.0023	mg/m^3		1/03/2023
Moisture	5.1	%		1/03/2023
Oxygen	11	%		1/03/2023
Solid Particles	5.7	mg/m^3		1/03/2023
Temperature	114	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.034	mg/m^3		1/03/2023
Carbon dioxide	8.9	%		1/03/2023

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 Exhaust Duct B

Name	Reading	Units	Licence Limit	Date
Flow Rate	350	m^3/sec		7/12/2023
Moisture	6.6	%		7/12/2023
Oxygen	7.3	%		7/12/2023
Solid Particles	30	mg/m^3		7/12/2023
Temperature	125	degC		7/12/2023
Carbon dioxide	12	%		7/12/2023
Cadmium	<0.0002	mg/m^3		1/03/2023
Flow Rate	260	m^3/sec		1/03/2023
Mercury	0.00099	mg/m^3		1/03/2023
Moisture	4.7	%		1/03/2023
Oxygen	8.5	%		1/03/2023
Solid Particles	5.2	mg/m^3		1/03/2023
Temperature	117	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		1/03/2023
Carbon dioxide	11	%		1/03/2023

Eraring Depositional Dust Gauges

EPA Identification no.17, 18, 19 & 20 - Depositional dust monitoring within 1km of the coal handling operations

Eraring Identification	EPA Identification No	Deposited Matter		
		g/m2/month		
		Ash	Combustible	Insoluble
E2	17	0.3	0.4	0.7
E4	18	0.3	0.9	1.2
E6	19	1.2	0.9	2.1
U6	20	0.9	0.8	1.7

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

Field Water Quality Recordings

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
27	0.5	28.99	8.8	21.7	109	7.29	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.066	mg/L	12/01/24
Ammonia	<0.01	mg/L	12/01/24
Arsenic III	<4	mg/L	12/01/24
Arsenic V	<4	mg/L	12/01/24
Cadmium	<0.0002	mg/L	12/01/24
Chromium (Trivalent)	<0.001	mg/L	12/01/24
Chromium (VI) Compounds	<0.001	mg/L	12/01/24
Copper	0.002	mg/L	12/01/24
Iron	0.098	mg/L	12/01/24
Lead	<0.0002	mg/L	12/01/24
Manganese	0.0068	mg/L	12/01/24
Nickel	<0.0005	mg/L	12/01/24
pH	8.15	pH units	12/01/24
Selenium	<0.002	mg/L	12/01/24
Total Suspended Solids	18	mg/L	12/01/24
Vanadium	0.0032	mg/L	12/01/24
Zinc	<0.005	mg/L	12/01/24

Water Quality - Lake Monitoring LM12

EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

Field Water Quality Recordings

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
24	0.5	27.22	8.78	21.9	114.1	7.8	3.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.02	mg/L	12/01/24
Ammonia	<0.01	mg/L	12/01/24
Arsenic III	<4	mg/L	12/01/24
Arsenic V	<4	mg/L	12/01/24
Cadmium	<0.0002	mg/L	12/01/24
Chromium (Trivalent)	<0.001	mg/L	12/01/24
Chromium (VI) Compounds	<0.001	mg/L	12/01/24
Copper	0.002	mg/L	12/01/24
Iron	0.015	mg/L	12/01/24
Lead	<0.0002	mg/L	12/01/24
Manganese	0.0038	mg/L	12/01/24
Nickel	0.0006	mg/L	12/01/24
pH	8.13	pH units	12/01/24
Selenium	<0.002	mg/L	12/01/24
Total Suspended Solids	17	mg/L	12/01/24
Vanadium	0.0032	mg/L	12/01/24
Zinc	<0.005	mg/L	12/01/24

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

Field Water Quality Recordings

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
24	0.5	25.61	8.65	21	110.2	7.94	4.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.009	mg/L	12/01/24
Ammonia	>0.01	mg/L	12/01/24
Arsenic III	<4	mg/L	12/01/24
Arsenic V	<4	mg/L	12/01/24
Cadmium	<0.0002	mg/L	12/01/24
Chromium (Trivalent)	<0.001	mg/L	12/01/24
Chromium (VI) Compounds	<0.001	mg/L	12/01/24
Copper	<0.001	mg/L	12/01/24
Iron	<0.005	mg/L	12/01/24
Lead	<0.0002	mg/L	12/01/24
Manganese	0.0031	mg/L	12/01/24
Nickel	<0.0005	mg/L	12/01/24
pH	8.14	pH units	12/01/24
Selenium	<0.002	mg/L	12/01/24
Total Suspended Solids	21	mg/L	12/01/24
Vanadium	0.0021	mg/L	12/01/24
Zinc	<0.005	mg/L	12/01/24

Water Quality - Lake Monitoring LM7

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

Field Water Quality Recordings

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
24	0.5	30.68	8.65	21.7	119.8	7.82	2.25

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.044	mg/L	12/01/24
Ammonia	<0.01	mg/L	12/01/24
Arsenic III	<4	mg/L	12/01/24
Arsenic V	<4	mg/L	12/01/24
Cadmium	<0.0002	mg/L	12/01/24
Chromium (Trivalent)	<0.001	mg/L	12/01/24
Chromium (VI) Compounds	<0.001	mg/L	12/01/24
Copper	0.002	mg/L	12/01/24
Iron	0.071	mg/L	12/01/24
Lead	<0.0002	mg/L	12/01/24
Manganese	0.0064	mg/L	12/01/24
Nickel	0.0006	mg/L	12/01/24
pH	8.14	pH units	12/01/24
Selenium	<0.002	mg/L	12/01/24
Total Suspended Solids	16	mg/L	12/01/24
Vanadium	0.0029	mg/L	12/01/24
Zinc	<0.005	mg/L	12/01/24

Eraring Ash Dam Quality Monitoring

EPA Identification no. 22 – Discharge point below siphon pond weir at Ash Dam

Name	Reading	Units	Licence Limit	Date
Aluminium	0.1	mg/L	-	12/01/24
Ammonia	0.87	mg/L	-	12/01/24
Arsenic III	<0.5	mg/L	-	12/01/24
Arsenic V	9.1	mg/L	-	12/01/24
Cadmium	0.00012	mg/L	-	12/01/24
Chromium (Trivalent)	<0.001	mg/L	-	12/01/24
Chromium (VI) Compounds	<0.01	mg/L	-	12/01/24
Copper	0.0043	mg/L	-	12/01/24
Iron	0.032	mg/L	-	12/01/24
Lead	<0.0001	mg/L	-	12/01/24
Manganese	0.0102	mg/L	-	12/01/24
Nickel	0.0024	mg/L	-	12/01/24
Nitrite and Nitrate as N	4.36	mg/L	-	12/01/24
Nitrogen	6	mg/L	-	12/01/24
pH	8.26	pH units	-	12/01/24
Phosphorus as P	1.52	mg/L	-	12/01/24
Reactive Phosphorus as P	1.3	mg/L	-	12/01/24
Selenium	0.0278	mg/L	-	12/01/24
Total Kjeldahl Nitrogen	1.6	mg/L	-	12/01/24
Total Suspended Solids	17	mg/L	-	12/01/24
Vanadium	0.0415	mg/L	-	12/01/24
Zinc	0.002	mg/L	-	12/01/24

Eraring Cooling Water Inlet Canal

EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie

Name	Reading	Units	Licence Limit	Date
Aluminium	0.181	mg/L	-	12/01/24
Ammonia	<0.01	mg/L	-	12/01/24
Arsenic III	<4	mg/L	-	12/01/24
Arsenic V	<4	mg/L	-	12/01/24
Cadmium	<0.0002	mg/L	-	12/01/24
Chromium (Trivalent)	<0.001	mg/L	-	12/01/24
Chromium (VI) Compounds	<0.01	mg/L	-	12/01/24
Copper	0.0013 - 0.003	mg/L	-	12/01/24
Iron	0.319	mg/L	-	12/01/24
Lead	<0.0002	mg/L	-	12/01/24
Manganese	0.0105	mg/L	-	12/01/24
Nickel	0.0005	mg/L	-	12/01/24
pH	8.14	pH units	-	12/01/24
Selenium	0.001	mg/L	-	12/01/24
Total Suspended Solids	<5	mg/L	-	12/01/24
Vanadium	0.0033	mg/L	-	12/01/24
Zinc	<0.005	mg/L	-	12/01/24
Dissolved Oxygen	7.21	mg/L	-	12/01/24
Field Temperature	27	degC	-	12/01/24
Salinity	21.8	ppt	-	12/01/24
Secchi Disk	2.75	m	-	12/01/24
Temperature – Average	27.65	deg C	-	January 24
Temperature – Minimum	25.40	deg C	-	January 24
Temperature - Maximum	30.19	deg C	-	January 24

Eraring Cooling Water Outlet Canal

EPA Identification no. 36 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	0.0016	mg/L	0.005	12/01/24
Iron	0.179	mg/L	0.3	12/01/24
Selenium	0.001	mg/L	0.002	12/01/24

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	96.5% Limit	99.8% Limit	100% Limit	Date
Temperature – Average	33.61	deg C	35.5	37.5	38.5	January 24
Temperature – Minimum	28.63	deg C				January 24
Temperature - Maximum	36.35	deg C				January 24

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Maximum Daily Discharge from Ash Dam	7.13	ML	150	January 24
Monthly Discharge from Ash Dam	31.23	ML	-	January 24

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond.

Name	Reading	Units	Licence Limit	Date
Aluminium	0.012	mg/L	-	12/01/24
Ammonia	2.36	mg/L	-	12/01/24
Arsenic III	1.9	mg/L	-	12/01/24
Arsenic V	1.8	mg/L	-	12/01/24
Cadmium	<0.00005	mg/L	-	12/01/24
Chromium (Trivalent)	<0.001	mg/L	-	12/01/24
Chromium (VI) Compounds	<0.01	mg/L	-	12/01/24
Copper	6.36	mg/L	-	12/01/24
Iron	<0.0001	mg/L	-	12/01/24
Lead	0.923	mg/L	-	12/01/24
Manganese	0.0018	mg/L	-	12/01/24
Nickel	6.36	mg/L	-	12/01/24
Nitrite and Nitrate as N	0.211	mg/L	-	12/01/24
Nitrogen	3.27	mg/L	-	12/01/24
pH	7.01	pH units	6-9.5	12/01/24
Phosphorus as P	0.369	mg/L	-	12/01/24
Reactive Phosphorus as P	0.017	mg/L	-	12/01/24
Selenium	0.0002	mg/L	-	12/01/24
Total Kjeldahl Nitrogen	3.27	mg/L	-	12/01/24
Total Suspended Solids	25	mg/L	50	12/01/24
Vanadium	0.0007	mg/L	-	12/01/24
Zinc	<0.001	mg/L	-	12/01/24

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert

MR217 did not discharge throughout January 2024 and there was insufficient water to sample during routine sampling in January 2024

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	
Ammonia		mg/L	-	
Arsenic III		mg/L	-	
Arsenic V		mg/L	-	
Cadmium		mg/L	-	
Chromium (Trivalent)		mg/L	-	
Chromium (VI) Compounds		mg/L	-	
Copper		mg/L	-	
Iron		mg/L	-	
Lead		mg/L	-	
Manganese		mg/L	-	
Nickel		mg/L	-	
Nitrite and Nitrate as N		mg/L	-	
Nitrogen		mg/L	-	
pH		pH units	6-9.5	
Phosphorus as P		mg/L	-	
Reactive Phosphorus as P		mg/L	-	
Selenium		mg/L	-	
Total Kjeldahl Nitrogen		mg/L	-	
Total Suspended Solids		mg/L	50	
Vanadium		mg/L	-	
Zinc		mg/L	-	

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.1060	mg/L	4/12/23
Ammonia	<0.01	mg/L	4/12/23
Arsenic (III)	<0.0005	mg/L	4/12/23
Arsenic (V)	<0.0005	mg/L	4/12/23
Cadmium	<0.00005	mg/L	4/12/23
Calcium	1	mg/L	4/12/23
Chromium (trivalent)	<0.001	mg/L	4/12/23
Chromium (VI) compounds	<0.001	mg/L	4/12/23
Copper	0.0009	mg/L	4/12/23
Electrical Conductivity	335	uS/cm	4/12/23
Iron	0.0470	mg/L	4/12/23
Lead	0.0003	mg/L	4/12/23
Magnesium	4	mg/L	4/12/23
Manganese	0.0990	mg/L	4/12/23
Nickel	0.0037	mg/L	4/12/23
pH	5.15	pH units	4/12/23
Potassium	4	mg/L	4/12/23
Selenium	<0.0002	mg/L	4/12/23
Sodium	60	mg/L	4/12/23
Standing Water Level	8.835	metres	4/12/23
Vanadium	<0.0002	mg/L	4/12/23
Zinc	0.0210	mg/L	4/12/23

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.2990	mg/L	5/12/23
Ammonia	5.04	mg/L	5/12/23
Arsenic (III)	<0.004	mg/L	5/12/23
Arsenic (V)	<0.004	mg/L	5/12/23
Cadmium	<0.0005	mg/L	5/12/23
Calcium	318	mg/L	5/12/23
Chromium (trivalent)	<0.001	mg/L	5/12/23
Chromium (VI) compounds	0.0010	mg/L	5/12/23
Copper	0.0018	mg/L	5/12/23
Electrical Conductivity	20000	uS/cm	5/12/23
Iron	13.6000	mg/L	5/12/23
Lead	0.0020	mg/L	5/12/23
Magnesium	404	mg/L	5/12/23
Manganese	0.9090	mg/L	5/12/23
Nickel	0.0021	mg/L	5/12/23
pH	6.52	pH units	5/12/23
Potassium	148	mg/L	5/12/23
Selenium	0.0005	mg/L	5/12/23
Sodium	4250	mg/L	5/12/23
Standing Water Level	4.09	metres	5/12/23
Vanadium	0.0038	mg/L	5/12/23
Zinc	0.0440	mg/L	5/12/23

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminum	0.0320	mg/L	4/12/23
Ammonia	3.55	mg/L	4/12/23
Arsenic (III)	0.0049	mg/L	4/12/23
Arsenic (V)	0.0007	mg/L	4/12/23
Cadmium	<0.0002	mg/L	4/12/23
Calcium	502	mg/L	4/12/23
Chromium (trivalent)	<0.001	mg/L	4/12/23
Chromium (VI) compounds	0.0020	mg/L	4/12/23
Copper	<0.001	mg/L	4/12/23
Electrical Conductivity	19900	uS/cm	4/12/23
Iron	15.2000	mg/L	4/12/23
Lead	0.0004	mg/L	4/12/23
Magnesium	285	mg/L	4/12/23
Manganese	0.5300	mg/L	4/12/23
Nickel	0.0010	mg/L	4/12/23
pH	6.51	pH units	4/12/23
Potassium	124	mg/L	4/12/23
Selenium	<0.002	mg/L	4/12/23
Sodium	3730	mg/L	4/12/23
Standing Water Level	1.77	metres	4/12/23
Vanadium	0.0013	mg/L	4/12/23
Zinc	0.0410	mg/L	4/12/23

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in December 2023

Name	Reading	Units	Date
Aluminium	-	mg/L	-
Ammonia	-	mg/L	-
Arsenic (III)	-	mg/L	-
Arsenic (V)	-	mg/L	-
Cadmium	-	mg/L	-
Calcium	-	mg/L	-
Chromium (trivalent)	-	mg/L	-
Chromium (VI) compounds	-	mg/L	-
Copper	-	mg/L	-
Electrical Conductivity	-	uS/cm	-
Iron	-	mg/L	-
Lead	-	mg/L	-
Magnesium	-	mg/L	-
Manganese	-	mg/L	-
Nickel	-	mg/L	-
pH	-	pH units	-
Potassium	-	mg/L	-
Selenium	-	mg/L	-
Sodium	-	mg/L	-
Standing Water Level	-	metres	-
Vanadium	-	mg/L	-
Zinc	-	mg/L	-