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

Environmental Monitoring Data April 2024



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air

	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 April	350	401	292	1140	1276	1062
2 April	357	437	268	946	1116	767
3 April	379	472	288	742	1170	545
4 April	369	409	302	653	802	514
5 April	371	393	306	691	799	572
6 April	374	426	293	807	880	657
7 April	370	414	294	825	887	756
8 April	422	467	359	816	951	650
9 April	410	458	322	715	845	618
10 April	372	418	291	572	656	438
11 April	376	417	317	799	944	567
12 April	368	418	300	799	952	677
13 April	372	434	280	723	935	532
14 April	364	422	263	738	963	545
15 April	353	422	312	1005	1195	767
16 April	362	394	307	838	1011	680
17 April	374	412	308	873	975	757
18 April	364	404	328	830	914	739
19 April	365	403	314	755	874	673
20 April	367	409	292	569	671	445
21 April	365	425	287	675	769	529
22 April	390	447	274	707	798	532
23 April	386	480	271	779	1057	574
24 April	400	471	330	639	687	572
25 April	365	413	263	605	669	531
26 April	376	416	329	604	688	500
27 April	358	398	302	613	721	432
28 April	356	417	256	673	776	567
29 April	371	415	294	675	850	534
30 April	357	388	296	562	700	462

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Data Invalidated3 April 2024
NOx Unit Data Invalidated 1, 2, 22 and 26 April 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 April	-	-	-	1154	1285	1085
2 April	-	-	-	979	1071	884
3 April	-	-	-	-	-	-
4 April	331	429	298	702	780	622
5 April	333	399	278	818	894	708
6 April	350	414	268	852	900	807
7 April	338	372	290	873	947	809
8 April	360	406	334	849	986	691
9 April	356	390	322	802	958	716
10 April	345	381	309	731	826	679
11 April	337	378	313	956	1082	707
12 April	336	355	302	901	1112	800
13 April	330	365	282	812	1047	675
14 April	336	381	277	822	1070	692
15 April	320	363	267	1062	1319	797
16 April	344	367	312	886	1117	685
17 April	336	370	299	911	1015	807
18 April	330	405	289	918	984	841
19 April	320	350	285	845	982	733
20 April	335	382	295	781	892	677
21 April	333	382	278	857	959	663
22 April	-	-	-	852	984	664
23 April	359	422	290	932	1081	785
24 April	363	429	324	731	826	682
25 April	346	414	277	814	896	743
26 April	-	-	-	809	873	674
27 April	328	369	285	818	951	652
28 April	345	391	263	864	956	771
29 April	344	371	311	786	855	718
30 April	326	357	284	802	870	703

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 10, 20, 21 and 22 April 2024
SO2 Unit Data Invalidated 25 and 26 April 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 April	276	313	244	735	881	607
2 April	280	314	249	644	757	533
3 April	265	388	29	429	670	39
4 April	301	386	268	442	540	395
5 April	296	391	256	491	577	427
6 April	278	328	242	527	611	479
7 April	302	341	276	529	674	418
8 April	303	346	266	580	726	487
9 April	284	335	247	596	839	472
10 April	-	-	-	-	-	-
11 April	287	355	263	655	772	509
12 April	284	342	242	591	686	455
13 April	267	332	198	502	550	436
14 April	285	327	217	668	883	500
15 April	263	299	245	722	859	587
16 April	286	328	267	591	705	468
17 April	286	309	271	590	731	494
18 April	308	345	271	605	778	493
19 April	350	376	317	585	643	492
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	268	293	231	552	752	350
24 April	288	307	253	561	609	500
25 April	242	287	218	-	-	-
26 April	219	241	208	-	-	-
27 April	224	243	208	598	663	533
28 April	231	259	209	598	637	532
29 April	224	258	191	565	632	491
30 April	204	221	193	621	688	540

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
NOx Unit Data Invalidated 10 April 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 April	385	479	282	1009	1051	943
2 April	399	493	323	877	953	790
3 April	390	495	232	629	867	268
4 April	425	454	394	643	703	593
5 April	406	466	340	708	812	633
6 April	403	450	341	769	790	732
7 April	398	469	326	723	810	623
8 April	398	425	367	780	941	646
9 April	348	424	287	739	988	643
10 April	-	-	-	733	809	657
11 April	378	438	318	899	986	767
12 April	384	419	291	812	944	698
13 April	355	430	219	702	801	590
14 April	392	457	259	934	1099	730
15 April	375	461	304	999	1078	887
16 April	374	448	304	794	847	722
17 April	366	426	305	808	862	727
18 April	366	468	295	800	907	717
19 April	417	466	327	781	848	682
20 April	477	541	384	694	802	621
21 April	398	473	293	708	777	576
22 April	402	470	273	710	788	662
23 April	359	481	280	791	911	654
24 April	321	366	288	681	736	614
25 April	277	333	248	736	785	685
26 April	252	262	241	734	785	703
27 April	263	286	242	724	802	635
28 April	276	312	241	727	766	653
29 April	265	327	237	692	780	609
30 April	241	249	232	761	820	637

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Data Invalidated 1, 2 5, 9, 10 and 13 April 2024
NOx Unit Data Invalidated 7, 8, 12, 14-19, 21, 27 and 29 April 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 April	-	-	-	-	-	-
2 April	-	-	-	-	-	-
3 April	368	421	264	746	926	690
4 April	318	372	231	634	737	594
5 April	-	-	-	-	-	-
6 April	318	387	243	807	833	759
7 April	-	-	-	838	995	705
8 April	-	-	-	796	924	711
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	346	396	212	886	974	665
12 April	-	-	-	858	1017	775
13 April	-	-	-	-	-	-
14 April	-	-	-	797	942	694
15 April	-	-	-	986	1186	727
16 April	-	-	-	791	937	692
17 April	-	-	-	857	941	780
18 April	-	-	-	882	1004	763
19 April	-	-	-	939	1045	814
20 April	292	320	255	780	869	701
21 April	-	-	-	806	889	715
22 April	297	328	241	768	852	687
23 April	306	333	243	849	1048	736
24 April	298	321	255	693	726	645
25 April	321	397	259	759	793	720
26 April	306	324	266	803	846	733
27 April	-	-	-	765	881	645
28 April	323	424	250	784	838	705
29 April	-	-	-	768	885	710
30 April	290	312	258	786	848	688

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 30 April 2024
NOx Unit Data Invalidated 1, 2, 5, 7, 8, 13-15, 19 and 26 April 2024
SOx Unit Data Invalidated 12 April 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 April	-	-	-	926	1014	795
2 April	-	-	-	804	948	706
3 April	363	403	309	656	730	621
4 April	323	376	246	586	652	535
5 April	-	-	-	646	711	578
6 April	302	356	227	706	774	645
7 April	-	-	-	739	936	597
8 April	-	-	-	692	791	633
9 April	330	391	275	622	701	524
10 April	351	412	256	633	746	544
11 April	341	369	243	766	866	590
12 April	306	359	246	-	-	-
13 April	-	-	-	723	818	655
14 April	-	-	-	708	806	594
15 April	-	-	-	875	1128	637
16 April	316	525	239	695	852	580
17 April	301	324	229	736	849	655
18 April	312	340	252	747	835	660
19 April	-	-	-	804	969	689
20 April	247	294	227	668	764	605
21 April	258	295	225	676	793	571
22 April	257	295	213	631	749	520
23 April	285	319	213	759	967	599
24 April	257	272	227	575	603	548
25 April	274	358	234	645	743	578
26 April	-	-	-	666	765	594
27 April	251	281	219	634	721	515
28 April	267	363	215	664	764	567
29 April	250	295	219	643	691	588
30 April	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Offline 1 to 30 April 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 April	-	-	-	-	-	-
2 April	-	-	-	-	-	-
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	-	-	-	-	-	-
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	-	-	-	-	-	-
13 April	-	-	-	-	-	-
14 April	-	-	-	-	-	-
15 April	-	-	-	-	-	-
16 April	-	-	-	-	-	-
17 April	-	-	-	-	-	-
18 April	-	-	-	-	-	-
19 April	-	-	-	-	-	-
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	-	-	-	-	-	-
28 April	-	-	-	-	-	-
29 April	-	-	-	-	-	-
30 April	-	-	-	-	-	-

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4B Offline 20 – 3o April 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 April	-	-	-	-	-	-
2 April	-	-	-	-	-	-
3 April	-	-	-	-	-	-
4 April	-	-	-	-	-	-
5 April	-	-	-	-	-	-
6 April	-	-	-	-	-	-
7 April	-	-	-	-	-	-
8 April	-	-	-	-	-	-
9 April	-	-	-	-	-	-
10 April	-	-	-	-	-	-
11 April	-	-	-	-	-	-
12 April	-	-	-	-	-	-
13 April	-	-	-	-	-	-
14 April	-	-	-	-	-	-
15 April	-	-	-	-	-	-
16 April	-	-	-	-	-	-
17 April	-	-	-	-	-	-
18 April	-	-	-	-	-	-
19 April	-	-	-	-	-	-
20 April	-	-	-	-	-	-
21 April	-	-	-	-	-	-
22 April	-	-	-	-	-	-
23 April	-	-	-	-	-	-
24 April	-	-	-	-	-	-
25 April	-	-	-	-	-	-
26 April	-	-	-	-	-	-
27 April	-	-	-	-	-	-
28 April	-	-	-	-	-	-
29 April	-	-	-	-	-	-
30 April	-	-	-	-	-	-

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
ER2	17	1.0	0.3	1.3
ER4	18	0.5	0.2	0.7
ER6	19	0.4	0.2	0.6
U6	20	0.6	0.3	0.9

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
21.56	0.5	24.25	8.06	36	94.4	6.13	1.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.092	mg/L	4/04/24
Ammonia	<0.01	mg/L	4/04/24
Arsenic III	<0.004	mg/L	4/04/24
Arsenic V	<0.004	mg/L	4/04/24
Cadmium	<0.0002	mg/L	4/04/24
Chromium (Trivalent)	<0.001	mg/L	4/04/24
Chromium (VI) Compounds	<0.001	mg/L	4/04/24
Copper	0.002	mg/L	4/04/24
Iron	0.164	mg/L	4/04/24
Lead	<0.0002	mg/L	4/04/24
Manganese	0.0081	mg/L	4/04/24
Nickel	<0.0005	mg/L	4/04/24
pH	8.23	pH units	4/04/24
Selenium	<0.002	mg/L	4/04/24
Total Suspended Solids	27	mg/L	4/04/24
Vanadium	0.0033	mg/L	4/04/24
Zinc	<0.005	mg/L	4/04/24

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
19.78	0.5	24.8	8.06	36.3	89.3	5.78	1.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.049	mg/L	4/04/24
Ammonia	<0.01	mg/L	4/04/24
Arsenic III	<0.004	mg/L	4/04/24
Arsenic V	<0.004	mg/L	4/04/24
Cadmium	<0.0002	mg/L	4/04/24
Chromium (Trivalent)	<0.001	mg/L	4/04/24
Chromium (VI) Compounds	<0.001	mg/L	4/04/24
Copper	0.003	mg/L	4/04/24
Iron	0.066	mg/L	4/04/24
Lead	<0.0002	mg/L	4/04/24
Manganese	0.0079	mg/L	4/04/24
Nickel	<0.0005	mg/L	4/04/24
pH	8.29	pH units	4/04/24
Selenium	<0.002	mg/L	4/04/24
Total Suspended Solids	18	mg/L	4/04/24
Vanadium	0.0039	mg/L	4/04/24
Zinc	<0.005	mg/L	4/04/24

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
21.52	0.5	23.54	8.02	34.5	106.3	7.18	3.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.018	mg/L	4/04/24
Ammonia	<0.01	mg/L	4/04/24
Arsenic III	<0.004	mg/L	4/04/24
Arsenic V	<0.004	mg/L	4/04/24
Cadmium	<0.0002	mg/L	4/04/24
Chromium (Trivalent)	<0.001	mg/L	4/04/24
Chromium (VI) Compounds	<0.001	mg/L	4/04/24
Copper	<0.001	mg/L	4/04/24
Iron	0.021	mg/L	4/04/24
Lead	0.0003	mg/L	4/04/24
Manganese	0.0044	mg/L	4/04/24
Nickel	<0.0005	mg/L	4/04/24
pH	8.22	pH units	4/04/24
Selenium	<0.002	mg/L	4/04/24
Total Suspended Solids	26	mg/L	4/04/24
Vanadium	0.0024	mg/L	4/04/24
Zinc	<0.005	mg/L	4/04/24

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
21.78	0.5	26.12	7.98	35.8	94.9	6.04	2.75

Laboratory Analysis

Name	Reading	Units	Date
Aluminium	0.036	mg/L	4/04/24
Ammonia	<0.01	mg/L	4/04/24
Arsenic III	<0.004	mg/L	4/04/24
Arsenic V	<0.004	mg/L	4/04/24
Cadmium	<0.0002	mg/L	4/04/24
Chromium (Trivalent)	<0.001	mg/L	4/04/24
Chromium (VI) Compounds	<0.001	mg/L	4/04/24
Copper	0.001	mg/L	4/04/24
Iron	0.066	mg/L	4/04/24
Lead	<0.0002	mg/L	4/04/24
Manganese	0.0093	mg/L	4/04/24
Nickel	<0.0005	mg/L	4/04/24
pH	8.25	pH units	4/04/24
Selenium	<0.002	mg/L	4/04/24
Total Suspended Solids	29	mg/L	4/04/24
Vanadium	0.0032	mg/L	4/04/24
Zinc	<0.005	mg/L	4/04/24

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	0.164	mg/L	-	4/04/24
Ammonia	0.746	mg/L	-	4/04/24
Arsenic III	0.5	mg/L	-	4/04/24
Arsenic V	6.9	mg/L	-	4/04/24
Cadmium	0.00014	mg/L	-	4/04/24
Chromium (Trivalent)	<0.001	mg/L	-	4/04/24
Chromium (VI) Compounds	<0.01	mg/L	-	4/04/24
Copper	0.004	mg/L	-	4/04/24
Iron	0.072	mg/L	-	4/04/24
Lead	0.0002	mg/L	-	4/04/24
Manganese	0.0265	mg/L	-	4/04/24
Nickel	0.0025	mg/L	-	4/04/24
Nitrite and Nitrate as N	5.63	mg/L	-	4/04/24
Nitrogen	7.03	mg/L	-	4/04/24
pH	8.19	pH units	-	4/04/24
Phosphorus as P	0.469	mg/L	-	4/04/24
Reactive Phosphorus as P	0.413	mg/L	-	4/04/24
Selenium	0.0219	mg/L	-	4/04/24
Total Kjeldahl Nitrogen	1.4	mg/L	-	4/04/24
Total Suspended Solids	8	mg/L	-	4/04/24
Vanadium	0.0226	mg/L	-	4/04/24
Zinc	0.003	mg/L	-	4/04/24

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	0.134	mg/L	-	4/04/24
Ammonia	<0.01	mg/L	-	4/04/24
Arsenic III	<4	mg/L	-	4/04/24
Arsenic V	<4	mg/L	-	4/04/24
Cadmium	<0.0002	mg/L	-	4/04/24
Chromium (Trivalent)	<0.001	mg/L	-	4/04/24
Chromium (VI) Compounds	<0.01	mg/L	-	4/04/24
Copper	0.0011	mg/L	-	4/04/24
Iron	0.164	mg/L	-	4/04/24
Lead	<0.0002	mg/L	-	4/04/24
Manganese	0.0086	mg/L	-	4/04/24
Nickel	0.0006	mg/L	-	4/04/24
pH	8.21	pH units	-	4/04/24
Selenium	<0.001	mg/L	-	4/04/24
Total Suspended Solids	27	mg/L	-	4/04/24
Vanadium	0.0034	mg/L	-	4/04/24
Zinc	<0.005	mg/L	-	4/04/24
Dissolved Oxygen	6	mg/L	-	4/04/24
Field Temperature	23.7	degC	-	4/04/24
Salinity	37.6	ppt	-	4/04/24
Secchi Disk	2.25	m	-	4/04/24
Temperature – Average	23.17	deg C	-	April 24
Temperature – Minimum	20.75	deg C	-	April 24
Temperature - Maximum	26.76	deg C	-	April 24

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0017	mg/L	0.005	4/04/24
Iron	0.234	mg/L	0.3	4/04/24
Selenium	0.001	mg/L	0.002	4/04/24

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	29.74	deg C	35.5	37.5	38.5	April 24
Temperature – Minimum	24.14	deg C				April 24
Temperature - Maximum	34.98	deg C				April 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	28.38	ML	150	April 24
Monthly Discharge from Ash Dam	209.66	ML	-	April 24

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.718	mg/L	-	4/04/24
Ammonia	2.1	mg/L	-	4/04/24
Arsenic III	1.3	mg/L	-	4/04/24
Arsenic V	0.8	mg/L	-	4/04/24
Cadmium	0.00008	mg/L	-	4/04/24
Chromium (Trivalent)	<0.001	mg/L	-	4/04/24
Chromium (VI) Compounds	<0.01	mg/L	-	4/04/24
Copper	0.0006	mg/L	-	4/04/24
Iron	7.94	mg/L	-	4/04/24
Lead	0.0004	mg/L	-	4/04/24
Manganese	0.759	mg/L	-	4/04/24
Nickel	0.0028	mg/L	-	4/04/24
Nitrite and Nitrate as N	0.338	mg/L	-	4/04/24
Nitrogen	2.51	mg/L	-	4/04/24
pH	7.13	pH units	6-9.5	4/04/24
Phosphorus as P	0.884	mg/L	-	4/04/24
Reactive Phosphorus as P	0.028	mg/L	-	4/04/24
Selenium	0.0003	mg/L	-	4/04/24
Total Kjeldahl Nitrogen	2.17	mg/L	-	4/04/24
Total Suspended Solids	71	mg/L	50	4/04/24
Vanadium	0.002	mg/L	-	4/04/24
Zinc	0.006	mg/L	-	4/04/24

MR217

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

MR217 did not discharge throughout April 2024 and there was insufficient water to sample during routine sampling in April 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	0.107	mg/L	12/3/24
Ammonia	0.04	mg/L	12/3/24
Arsenic (III)	0.0014	mg/L	12/3/24
Arsenic (V)	<0.0005	mg/L	12/3/24
Cadmium	<0.00005	mg/L	12/3/24
Calcium	1	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	0.0007	mg/L	12/3/24
Electrical Conductivity	358	uS/cm	12/3/24
Iron	0.084	mg/L	12/3/24
Lead	0.0003	mg/L	12/3/24
Magnesium	3	mg/L	12/3/24
Manganese	0.0794	mg/L	12/3/24
Nickel	0.0034	mg/L	12/3/24
pH	4.85	pH units	12/3/24
Potassium	4	mg/L	12/3/24
Selenium	<0.0002	mg/L	12/3/24
Sodium	56	mg/L	12/3/24
Standing Water Level	8.37	metres	12/3/24
Vanadium	0.0002	mg/L	12/3/24
Zinc	0.020	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.291	mg/L	12/3/24
Ammonia	0.12	mg/L	12/3/24
Arsenic (III)	0.0021	mg/L	12/3/24
Arsenic (V)	0.0012	mg/L	12/3/24
Cadmium	0.00009	mg/L	12/3/24
Calcium	132	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	0.0025	mg/L	12/3/24
Electrical Conductivity	5590	uS/cm	12/3/24
Iron	1.900	mg/L	12/3/24
Lead	0.0021	mg/L	12/3/24
Magnesium	101	mg/L	12/3/24
Manganese	1.640	mg/L	12/3/24
Nickel	0.017	mg/L	12/3/24
pH	6.65	pH units	12/3/24
Potassium	50	mg/L	12/3/24
Selenium	0.0002	mg/L	12/3/24
Sodium	1140	mg/L	12/3/24
Standing Water Level	4.16	metres	12/3/24
Vanadium	0.0017	mg/L	12/3/24
Zinc	0.607	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminum	0.021	mg/L	12/3/24
Ammonia	3.07	mg/L	12/3/24
Arsenic (III)	0.0042	mg/L	12/3/24
Arsenic (V)	<0.0004	mg/L	12/3/24
Cadmium	<0.0002	mg/L	12/3/24
Calcium	508	mg/L	12/3/24
Chromium (trivalent)	<0.001	mg/L	12/3/24
Chromium (VI) compounds	<0.01	mg/L	12/3/24
Copper	<0.001	mg/L	12/3/24
Electrical Conductivity	21300	uS/cm	12/3/24
Iron	16	mg/L	12/3/24
Lead	0.0004	mg/L	12/3/24
Magnesium	258	mg/L	12/3/24
Manganese	0.480	mg/L	12/3/24
Nickel	0.0009	mg/L	12/3/24
pH	6.47	pH units	12/3/24
Potassium	125	mg/L	12/3/24
Selenium	<0.002	mg/L	12/3/24
Sodium	3450	mg/L	12/3/24
Standing Water Level	1.83	metres	12/3/24
Vanadium	0.0009	mg/L	12/3/24
Zinc	0.016	mg/L	12/3/24

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in April 2024

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	-