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

Environmental Monitoring Data September 2025



Compliance Summary:

Were all EPL monitoring limits met	Yes

Details of EPL Non- compliances

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Reading	Units	Licence Limit	Date	Comments

EPL1429 Environment Protection Licence monitoring locations are shown here
https://www.originenergy.com.au/wp-content/uploads/3/Eraring_Power_Station_EPL_Monitoring_Locations_Map.pdf

Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no.3 - 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	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/09/2025	453	533	372	577	717	415
02/09/2025	446	526	362	645	813	437
03/09/2025	447	583	343	651	782	489
04/09/2025	443	506	351	674	841	521
05/09/2025	475	542	360	585	721	454
06/09/2025	427	551	356	658	787	486
07/09/2025	430	525	309	700	864	454
08/09/2025	397	459	334	728	838	503
09/09/2025	396	480	329	726	795	637
10/09/2025	455	496	368	692	832	511
11/09/2025	440	538	350	566	759	475
12/09/2025	458	528	398	641	766	460
13/09/2025	439	500	383	617	728	514
14/09/2025	485	578	401	652	790	463
15/09/2025	417	474	359	730	894	485
16/09/2025	421	474	361	765	881	583
17/09/2025	410	479	338	674	744	573
18/09/2025	389	442	337	657	773	475
19/09/2025	400	454	338	638	718	437
20/09/2025	401	435	362	643	718	513
21/09/2025	421	451	374	639	710	504
22/09/2025	407	445	373	644	781	465
23/09/2025	414	456	360	603	720	428
24/09/2025	408	458	378	658	809	454
25/09/2025	386	425	338	685	799	486
26/09/2025	379	421	305	697	753	610
27/09/2025	391	455	333	814	884	731
28/09/2025	396	445	332	796	843	720
29/09/2025	400	433	334	786	892	642
30/09/2025	399	478	324	793	909	606

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2 offline 1-5 September 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/09/2025	-	-	-	-	-	-
02/09/2025	-	-	-	-	-	-
03/09/2025	-	-	-	-	-	-
04/09/2025	-	-	-	-	-	-
05/09/2025	-	-	-	-	-	-
06/09/2025	346	423	271	596	627	574
07/09/2025	368	440	298	587	762	531
08/09/2025	358	437	310	562	681	521
09/09/2025	344	396	280	574	700	539
10/09/2025	358	408	266	592	705	545
11/09/2025	368	479	261	523	665	393
12/09/2025	412	508	301	561	700	530
13/09/2025	388	534	285	532	644	489
14/09/2025	364	482	282	551	683	461
15/09/2025	398	481	296	603	765	522
16/09/2025	393	534	292	621	794	554
17/09/2025	349	415	281	548	692	508
18/09/2025	372	460	275	577	734	517
19/09/2025	386	466	323	529	680	474
20/09/2025	360	402	283	530	673	505
21/09/2025	382	448	298	521	623	479
22/09/2025	334	407	267	550	720	513
23/09/2025	352	432	264	564	672	528
24/09/2025	376	476	273	567	666	513
25/09/2025	330	470	270	564	724	527
26/09/2025	332	438	252	540	675	489
27/09/2025	296	333	257	640	824	567
28/09/2025	295	333	265	652	787	598
29/09/2025	284	317	249	659	816	617
30/09/2025	299	335	275	645	822	616

Unit 3 Boiler Continuous Emission Monitoring Summary

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

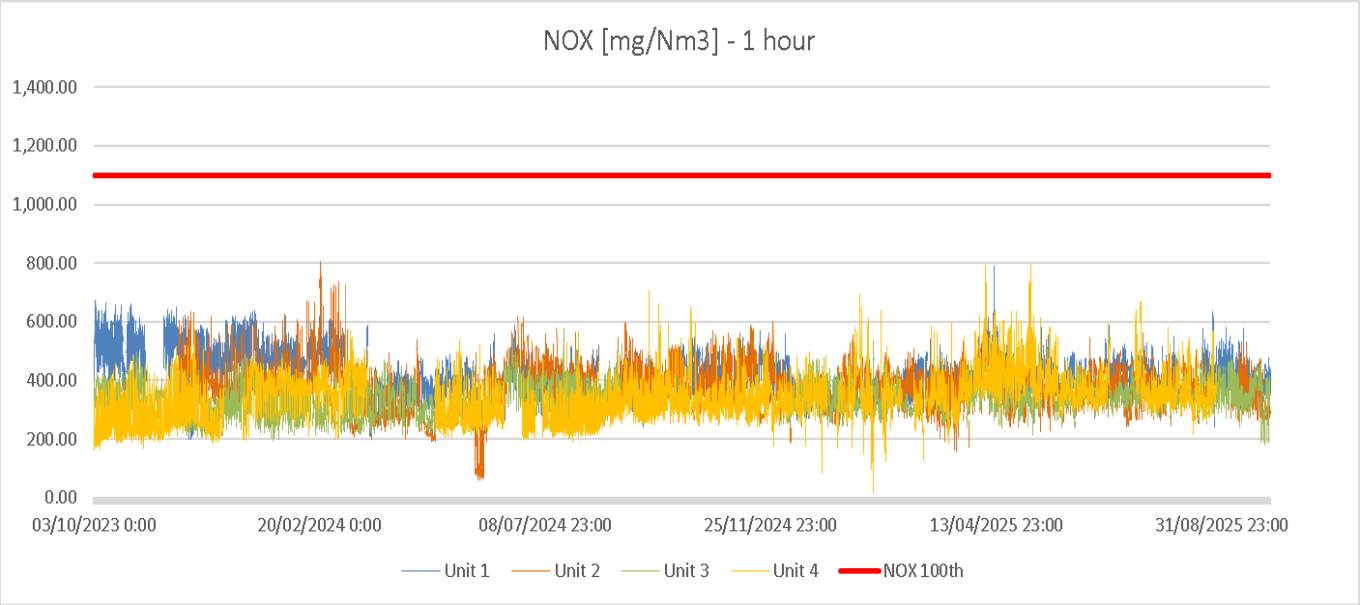
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/09/2025	389	449	317	670	733	562
02/09/2025	383	444	305	686	778	616
03/09/2025	349	440	269	668	727	530
04/09/2025	373	461	298	683	748	565
05/09/2025	404	469	301	616	643	475
06/09/2025	398	485	324	712	778	511
07/09/2025	348	459	310	742	862	680
08/09/2025	356	438	300	690	720	609
09/09/2025	372	427	270	656	722	542
10/09/2025	380	425	296	702	781	493
11/09/2025	344	421	281	645	722	621
12/09/2025	344	385	240	668	709	468
13/09/2025	335	383	260	651	699	501
14/09/2025	327	359	284	646	697	591
15/09/2025	325	360	301	720	814	594
16/09/2025	327	355	286	790	882	674
17/09/2025	316	359	270	647	702	575
18/09/2025	362	420	291	699	751	601
19/09/2025	383	424	308	646	711	576
20/09/2025	385	421	316	660	693	576
21/09/2025	399	442	330	666	714	564
22/09/2025	423	455	369	668	723	576
23/09/2025	397	446	309	712	750	636
24/09/2025	399	456	366	709	764	368
25/09/2025	387	456	188	703	740	350
26/09/2025	354	384	199	638	701	365
27/09/2025	236	351	179	465	682	364
28/09/2025	366	406	289	758	846	394
29/09/2025	366	416	192	806	854	432
30/09/2025	361	414	187	787	821	401

Unit 4 Boiler Continuous Emission Monitoring Summary -

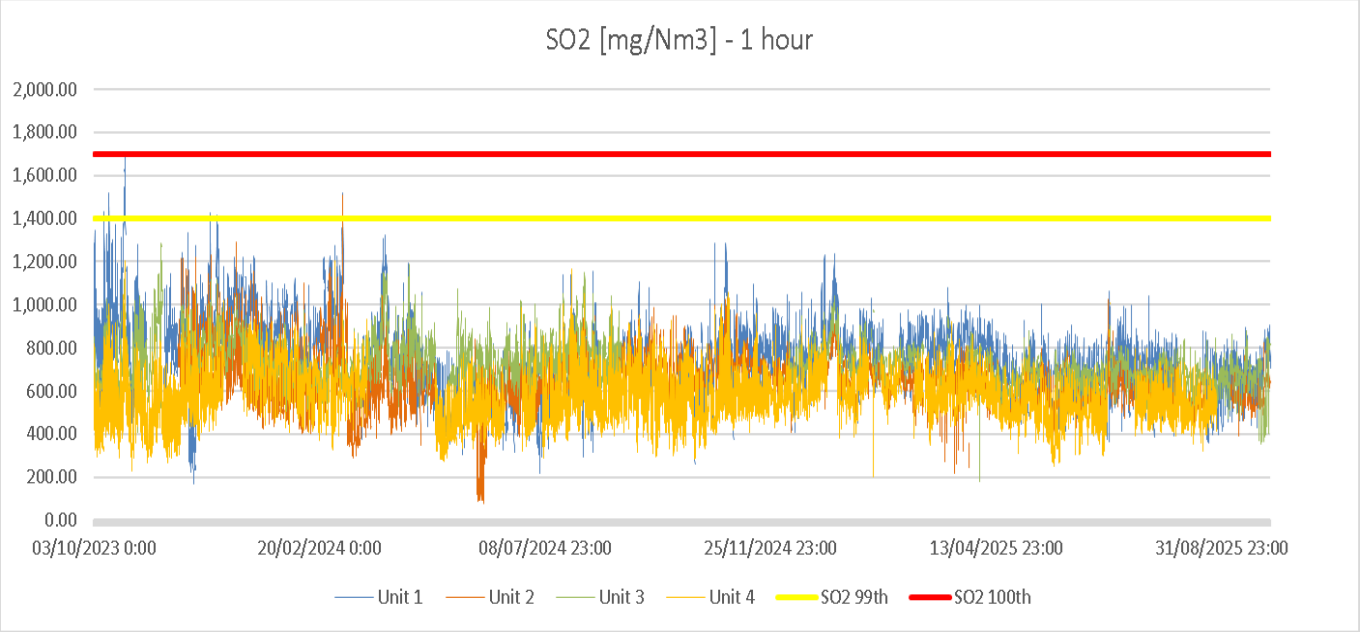
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 1-30 September 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/09/2025	-	-	-	-	-	-
02/09/2025	-	-	-	-	-	-
03/09/2025	-	-	-	-	-	-
04/09/2025	-	-	-	-	-	-
05/09/2025	-	-	-	-	-	-
06/09/2025	-	-	-	-	-	-
07/09/2025	-	-	-	-	-	-
08/09/2025	-	-	-	-	-	-
09/09/2025	-	-	-	-	-	-
10/09/2025	-	-	-	-	-	-
11/09/2025	-	-	-	-	-	-
12/09/2025	-	-	-	-	-	-
13/09/2025	-	-	-	-	-	-
14/09/2025	-	-	-	-	-	-
15/09/2025	-	-	-	-	-	-
16/09/2025	-	-	-	-	-	-
17/09/2025	-	-	-	-	-	-
18/09/2025	-	-	-	-	-	-
19/09/2025	-	-	-	-	-	-
20/09/2025	-	-	-	-	-	-
21/09/2025	-	-	-	-	-	-
22/09/2025	-	-	-	-	-	-
23/09/2025	-	-	-	-	-	-
24/09/2025	-	-	-	-	-	-
25/09/2025	-	-	-	-	-	-
26/09/2025	-	-	-	-	-	-
27/09/2025	-	-	-	-	-	-
28/09/2025	-	-	-	-	-	-
29/09/2025	-	-	-	-	-	-
30/09/2025	-	-	-	-	-	-

Continuous Emission Monitoring Summary NOx Data



Continuous Emission Monitoring Summary SO_2 Data



Unit 1 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	0.05	mg/m^3	4	10/12/2024
Fluorine	6 monthly	8	mg/m^3	30	10/12/2024
Hydrogen chloride	6 monthly	9.6	mg/m^3	50	10/12/2024
Solid Particles	Quarterly	2.2	mg/m^3	50	29/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1	mg/m^3	100	10/12/2024
Volatile organic compounds as n-	6 monthly	<0.07	mg/m^3	8	10/12/2024
Cadmium	6 monthly	0.00048	mg/m^3	0.03	29/07/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	29/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	460	m^3/sec	-	29/07/2025
Moisture	6 monthly	5	%	-	29/07/2025
Oxygen	6 monthly	7.2	%	-	29/07/2025
Solid Particles	Quarterly	1.5	mg/m^3	-	29/07/2025
Temperature	6 monthly	124	Deg C	-	29/07/2025
Carbon dioxide	6 monthly	12.9	%	-	29/07/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	29/04/2025
Fluorine	6 monthly	8.5	mg/m^3	-	29/04/2025
Hydrogen chloride	6 monthly	7.2	mg/m^3	-	29/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.9	mg/m^3	-	29/04/2025
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	-	29/04/2025
Cadmium	6 monthly	0.0008	mg/m^3	-	29/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	29/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.015	mg/m^3	-	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		360	m^3/sec	-	29/07/2025
Moisture		4.9	%	-	29/07/2025
Oxygen		6.9	%	-	29/07/2025
Solid Particles	Quarterly	3.1	mg/m^3	-	29/07/2025
Temperature		125	Deg C	-	29/07/2025
Cadmium	6 monthly	0.000065	mg/m^3	-	26/07/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	26/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.014	mg/m^3	-	26/07/2025

Unit 2 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.02	mg/m^3	4	9/01/2025
Fluorine	6 monthly	8.5	mg/m^3	30	9/01/2025
Hydrogen chloride	6 monthly	6.2	mg/m^3	50	9/01/2025
Solid Particles	Quarterly	20.0	mg/m^3	50	30/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.7	mg/m^3	100	9/01/2025
Volatile organic compounds as n-	6 monthly	<0.1	mg/m^3	8	9/01/2025
Cadmium	6 monthly	0.00027	mg/m^3	0.03	30/07/2025
Mercury	6 monthly	0.00008	mg/m^3	0.03	30/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	<0.03	mg/m^3	0.60	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	390	m^3/sec	-	30/07/2025
Moisture	6 monthly	4.6	%	-	30/07/2025
Oxygen	6 monthly	6.7	%	-	30/07/2025
Solid Particles	Quarterly	21	mg/m^3	-	30/07/2025
Temperature	6 monthly	110	Deg C	-	30/07/2025
Carbon dioxide	6 monthly	13.1	%	-	30/07/2025
Chlorine	6 monthly	<0.01	mg/m^3	-	30/04/2025
Fluorine	6 monthly	10	mg/m^3	-	30/04/2025
Hydrogen chloride	6 monthly	9.2	mg/m^3	-	30/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	3.6	mg/m^3	-	30/04/2025
Volatile organic compounds as n-	6 monthly	<0.06	mg/m^3	-	30/04/2025
Cadmium	6 monthly	0.00017	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.00011	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.033	mg/m^3	-	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		440	m^3/sec	-	30/07/2025
Moisture		6.2	%	-	30/07/2025
Oxygen		5.6	%	-	30/07/2025
Solid Particles	Quarterly	20	mg/m^3	-	30/07/2025
Temperature		119	Deg C	-	30/07/2025
Cadmium	6 monthly	0.00035	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.000045	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.018	mg/m^3	-	30/07/2025

Unit 3 Boiler Emission Test Results					
EPA Identification No 5 – Air Emissions monitoring, Boiler 3 stack discharge to air					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Chlorine	6 monthly	0.046	mg/m^3	4	11/12/2024
Fluorine	6 monthly	9.7	mg/m^3	30	11/12/2024
Hydrogen chloride	6 monthly	15	mg/m^3	50	11/12/2024
Solid Particles	Quarterly	2.0	mg/m^3	50	31/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.2	mg/m^3	100	11/12/2024
Volatile organic compounds as n-propane equivalent	6 monthly	<0.08	mg/m^3	8	11/12/2024
Cadmium	6 monthly	0.00027	mg/m^3	0.03	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	0.03	31/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	31/07/2025

EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate	6 monthly	430	m^3/sec	-	31/07/2025
Moisture	6 monthly	6.2	%	-	31/07/2025
Oxygen	6 Monthly	7	%	-	31/07/2025
Solid Particles	Quarterly	2.3	mg/m^3	-	31/07/2025
Temperature	6 monthly	110	Deg C	-	31/07/2025
Carbon dioxide	6 monthly	13	%	-	31//2025
Chlorine	6 monthly	0.18	mg/m^3	-	1/05/2025
Fluorine	6 monthly	16	mg/m^3	-	1/05/2025
Hydrogen chloride	6 monthly	11	mg/m^3	-	1/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	-	1/05/2025
Volatile organic compounds as n-propane equivalent	6 monthly	<0.06	mg/m^3	-	1/05/2025
Cadmium	6 monthly	0.0004	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.012	mg/m^3	-	31/07/2025

EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate		350	m^3/sec	-	31/07/2025
Moisture		5.8	%	-	31/07/2025
Oxygen		5.7	%	-	31/07/2025
Solid Particles	Quarterly	1.6	mg/m^3	-	31/07/2025
Temperature		108	Deg C	-	31/07/2025
Cadmium	6 monthly	0.00012	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.013	mg/m^3	-	31/07/2025

Unit 4 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.01	mg/m^3	4	12-13/12/2024
Fluorine	6 monthly	11	mg/m^3	30	12-13/12/2024
Hydrogen chloride	6 monthly	8.5	mg/m^3	50	12-13/12/2024
Solid Particles	Quarterly	6.6	mg/m^3	50	01/08/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	100	12-13/12/2024
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	8	12-13/12/2024
Cadmium	6 monthly	0.00009	mg/m^3	0.03	01/08/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	01/08/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	380	m^3/sec	-	01/08/2025
Moisture	6 monthly	5	%	-	01/08/2025
Oxygen	6 monthly	7.2	%	-	01/08/2025
Solid Particles	Quarterly	6.9	mg/m^3	-	01/08/2025
Temperature	6 monthly	121	Deg C	-	01/08/2025
Carbon dioxide	6 monthly	12.8	%	-	01/08/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	2/05/2025
Fluorine	6 monthly	17	mg/m^3	-	2/05/2025
Hydrogen chloride	6 monthly	14	mg/m^3	-	2/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	6.6	mg/m^3	-	2/05/2025
Volatile organic compounds as n-	6 monthly	<0.08	mg/m^3	-	2/05//2025
Cadmium	6 monthly	0.000087	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in	6 monthly	<0.019	mg/m^3	-	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		450	m^3/sec	-	01/08/2025
Moisture		5	%	-	01/08/2025
Oxygen		6.4	%	-	01/08/2025
Solid Particles	Quarterly	6.3	mg/m^3	-	01/08/2025
Temperature		119	Deg C	-	01/08/2025
Cadmium	6 monthly	0.0001	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.019	mg/m^3	-	01/08/2025

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**		**Sechi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
19.31	0.5	18.80	8.0	38.23	105.8	7.78	2.25

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.179	mg/L	-	8/09/25
Ammonia	<0.010	mg/L	-	8/09/25
Arsenic III	<0.008	mg/L	-	8/09/25
Arsenic V	<0.008	mg/L	-	8/09/25
Cadmium	<0.0002	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.001	mg/L	-	8/09/25
Copper	0.001	mg/L	-	8/09/25
Iron	0.148	mg/L	-	8/09/25
Lead	<0.0002	mg/L	-	8/09/25
Manganese	0.0067	mg/L	-	8/09/25
Nickel	0.0006	mg/L	-	8/09/25
pH	8.11	pH units	-	8/09/25
Selenium	<0.002	mg/L	-	8/09/25
Total Suspended Solids	41	mg/L	-	8/09/25
Vanadium	0.0016	mg/L	-	8/09/25
Zinc	<0.005	mg/L	-	8/09/25

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
19.87	0.5	18.14	8.03	37.87	101.3	7.59	3.25

Laboratory Analysis				
Name	Reading	**Units**	**Licence Limits**	**Date**
Aluminium	0.032	mg/L	-	8/09/25
Ammonia	<0.005	mg/L	-	8/09/25
Arsenic III	<0.008	mg/L	-	8/09/25
Arsenic V	<0.008	mg/L	-	8/09/25
Cadmium	<0.0002	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.001	mg/L	-	8/09/25
Copper	0.001	mg/L	-	8/09/25
Iron	0.023	mg/L	-	8/09/25
Lead	<0.0002	mg/L	-	8/09/25
Manganese	0.0040	mg/L	-	8/09/25
Nickel	<0.0005	mg/L	-	8/09/25
pH	8.08	pH units	-	8/09/25
Selenium	<0.002	mg/L	-	8/09/25
Total Suspended Solids	50	mg/L	-	8/09/25
Vanadium	0.0017	mg/L	-	8/09/25
Zinc	<0.005	mg/L	-	8/09/25

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
18.0	0.5	17.07	8.84	40.02	116.7	8.84	2.75

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.022	mg/L	-	8/09/25
Ammonia	<0.005	mg/L	-	8/09/25
Arsenic III	<0.008	mg/L	-	8/09/25
Arsenic V	<0.008	mg/L	-	8/09/25
Cadmium	<0.0002	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.001	mg/L	-	8/09/25
Copper	<0.001	mg/L	-	8/09/25
Iron	0.015	mg/L	-	8/09/25
Lead	<0.0002	mg/L	-	8/09/25
Manganese	0.0033	mg/L	-	8/09/25
Nickel	<0.0005	mg/L	-	8/09/25
pH	8.15	pH units	-	8/09/25
Selenium	<0.002	mg/L	-	8/09/25
Total Suspended Solids	38	mg/L	-	8/09/25
Vanadium	0.0014	mg/L	-	8/09/25
Zinc	<0.005	mg/L	-	8/09/25

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
17.56	0.5	18.92	7.96	38.70	108.7	8.03	3.25

Laboratory Analysis

Name	**Reading**	**Units**	**Licence Limits**	**Date**
Aluminium	0.032	mg/L	-	8/09/25
Ammonia	<0.005	mg/L	-	8/09/25
Arsenic III	<0.008	mg/L	-	8/09/25
Arsenic V	<0.008	mg/L	-	8/09/25
Cadmium	<0.0002	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.001	mg/L	-	8/09/25
Copper	<0.001	mg/L	-	8/09/25
Iron	0.037	mg/L	-	8/09/25
Lead	<0.0002	mg/L	-	8/09/25
Manganese	0.0051	mg/L	-	8/09/25
Nickel	0.0008	mg/L	-	8/09/25
pH	8.08	pH units	-	8/09/25
Selenium	<0.002	mg/L	-	8/09/25
Total Suspended Solids	40	mg/L	-	8/09/25
Vanadium	0.0014	mg/L	-	8/09/25
Zinc	<0.005	mg/L	-	8/09/25

Eraring Ash Dam Water Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.914	mg/L	-	8/09/25
Ammonia	1.20	mg/L	-	8/09/25
Arsenic III	<0.0005	mg/L	-	8/09/25
Arsenic V	0.0032	mg/L	-	8/09/25
Cadmium	0.00008	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/09/25
Copper	0.0023	mg/L	-	8/09/25
Iron	0.406	mg/L	-	8/09/25
Lead	0.0011	mg/L	-	8/09/25
Manganese	0.189	mg/L	-	8/09/25
Nickel	0.0041	mg/L	-	8/09/25
Nitrite and Nitrate as N	3.93	mg/L	-	8/09/25
Nitrogen	5.5	mg/L	-	8/09/25
pH	8.00	pH units	-	8/09/25
Phosphorus as P	0.18	mg/L	-	8/09/25
Reactive Phosphorus as P	0.07	mg/L	-	8/09/25
Selenium	0.0334	mg/L	-	8/09/25
Total Kjeldahl Nitrogen	1.6	mg/L	-	8/09/25
Total Suspended Solids	71	mg/L	-	8/09/25
Vanadium	0.0388	mg/L	-	8/09/25
Zinc	0.008	mg/L	-	8/09/25

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	0.074	mg/L	-	8/09/25
Ammonia	<0.005	mg/L	-	8/09/25
Arsenic III	<0.008	mg/L	-	8/09/25
Arsenic V	<0.008	mg/L	-	8/09/25
Cadmium	<0.0002	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/09/25
Copper	0.0013	mg/L	-	8/09/25
Iron	0.102	mg/L	-	8/09/25
Lead	<0.0002	mg/L	-	8/09/25
Manganese	0.0066	mg/L	-	8/09/25
Nickel	0.0014	mg/L	-	8/09/25
pH	8.07	pH units	-	8/09/25
Selenium	<0.001	mg/L	-	8/09/25
Total Suspended Solids	26	mg/L	-	8/09/25
Vanadium	0.0014	mg/L	-	8/09/25
Zinc	<0.005	mg/L	-	8/09/25
Dissolved Oxygen	8.26	mg/L	-	8/09/25
Field Temperature	24.0	degC	-	8/09/25
Salinity	30.05	ppt	-	8/09/25
Secchi Disk	2.75	m	-	8/09/25
Temperature – Average	18.92	deg C	-	September 25
Temperature – Minimum	15.65	deg C	-	September 25
Temperature - Maximum	22.21	deg C	-	September 25

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0014	mg/L	0.005	8/09/25
Iron	0.101	mg/L	0.3	8/09/25
Selenium	<0.001	mg/L	0.002	8/09/25

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	21.96	deg C	35.5	37.5	38.5	September 25
Temperature – Minimum	19.25	deg C				September 25
Temperature - Maximum	29.85	deg C				September 25

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Minimum Daily Discharge from Ash Dam	0.37	ML		September 2025
Average Daily Discharge from Ash Dam	15.94	ML		September 2025
Maximum Daily Discharge from Ash Dam	41.35	ML	150	September 2025
Monthly Discharge from Ash Dam	478.16	ML	-	September 2025

Emergency Discharge – Toe Drain Pond

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

Toe Drain Pond did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.089	mg/L	-	8/09/25
Ammonia	2.26	mg/L	-	8/09/25
Arsenic III	0.0017	mg/L	-	8/09/25
Arsenic V	<0.0005	mg/L	-	8/09/25
Cadmium	<0.00005	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/09/25
Copper	<0.0005	mg/L	-	8/09/25
Iron	3.02	mg/L	-	8/09/25
Lead	<0.0001	mg/L	-	8/09/25
Manganese	0.883	mg/L	-	8/09/25
Nickel	0.0020	mg/L	-	8/09/25
Nitrite and Nitrate as N	0.125	mg/L	-	8/09/25
Nitrogen	2.40	mg/L	-	8/09/25
pH	6.90	pH units	6-9.5	8/09/25
Phosphorus as P	0.367	mg/L	-	8/09/25
Reactive Phosphorus as P	0.006	mg/L	-	8/09/25
Selenium	0.0002	mg/L	-	8/09/25
Total Kjeldahl Nitrogen	2.28	mg/L	-	8/09/25
Total Suspended Solids	14	mg/L	50	8/09/25
Vanadium	0.0005	mg/L	-	8/09/25
Zinc	0.002	mg/L	-	8/09/25

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

MR217 did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.151	mg/L	-	8/09/25
Ammonia	0.028	mg/L	-	8/09/25
Arsenic III	<0.0005	mg/L	-	8/09/25
Arsenic V	<0.0005	mg/L	-	8/09/25
Cadmium	<0.00005	mg/L	-	8/09/25
Chromium (Trivalent)	<0.001	mg/L	-	8/09/25
Chromium (VI) Compounds	<0.01	mg/L	-	8/09/25
Copper	0.0007	mg/L	-	8/09/25
Iron	1.10	mg/L	-	8/09/25
Lead	<0.0001	mg/L	-	8/09/25
Manganese	0.317	mg/L	-	8/09/25
Nickel	0.0013	mg/L	-	8/09/25
Nitrite and Nitrate as N	0.008	mg/L	-	8/09/25
Nitrogen	0.40	mg/L	-	8/09/25
pH	6.94	pH units	6-9.5	8/09/25
Phosphorus as P	0.018	mg/L	-	8/09/25
Reactive Phosphorus as P	0.003	mg/L	-	8/09/25
Selenium	0.0007	mg/L	-	8/09/25
Total Kjeldahl Nitrogen	0.39	mg/L	-	8/09/25
Total Suspended Solids	10	mg/L	50	8/09/25
Vanadium	0.0010	mg/L	-	8/09/25
Zinc	0.004	mg/L	-	8/09/25

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.204	mg/L	-	16/09/25
Ammonia	0.03	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	0.00006	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0008	mg/L	-	16/09/25
Electrical Conductivity	413	uS/cm	-	16/09/25
Iron	0.794	mg/L	-	16/09/25
Lead	0.0014	mg/L	-	16/09/25
Magnesium	5	mg/L	-	16/09/25
Manganese	0.145	mg/L	-	16/09/25
Nickel	0.005	mg/L	-	16/09/25
pH	5.01	pH units	-	16/09/25
Potassium	4	mg/L	-	16/09/25
Selenium	<0.0002	mg/L	-	16/09/25
Sodium	74	mg/L	-	16/09/25
Standing Water Level	5.73	m	-	16/09/25
Vanadium	0.0006	mg/L	-	16/09/25
Zinc	0.029	mg/L	-	16/09/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.740	mg/L	-	15/09/25
Ammonia	6.30	mg/L	-	15/09/25
Arsenic (III)	0.0036	mg/L	-	15/09/25
Arsenic (V)	0.0018	mg/L	-	15/09/25
Cadmium	0.00018	mg/L	-	15/09/25
Calcium	218	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	0.0028	mg/L	-	15/09/25
Electrical Conductivity	15400	uS/cm	-	15/09/25
Iron	12.000	mg/L	-	15/09/25
Lead	0.0061	mg/L	-	15/09/25
Magnesium	260	mg/L	-	15/09/25
Manganese	0.645	mg/L	-	15/09/25
Nickel	0.0022	mg/L	-	15/09/25
pH	6.61	pH units	-	15/09/25
Potassium	122	mg/L	-	15/09/25
Selenium	0.0009	mg/L	-	15/09/25
Sodium	3060	mg/L	-	15/09/25
Standing Water Level	5.20	m	-	15/09/25
Vanadium	0.010	mg/L	-	15/09/25
Zinc	0.051	mg/L	-	15/09/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.021	mg/L	-	15/09/25
Ammonia	3.29	mg/L	-	15/09/25
Arsenic (III)	0.0041	mg/L	-	15/09/25
Arsenic (V)	0.0017	mg/L	-	15/09/25
Cadmium	<0.00005	mg/L	-	15/09/25
Calcium	450	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	<0.0005	mg/L	-	15/09/25
Electrical Conductivity	18800	uS/cm	-	15/09/25
Iron	10.300	mg/L	-	15/09/25
Lead	0.0006	mg/L	-	15/09/25
Magnesium	242	mg/L	-	15/09/25
Manganese	0.372	mg/L	-	15/09/25
Nickel	0.0007	mg/L	-	15/09/25
pH	6.74	pH units	-	15/09/25
Potassium	118	mg/L	-	15/09/25
Selenium	0.0006	mg/L	-	15/09/25
Sodium	3380	mg/L	-	15/09/25
Standing Water Level	1.79	m	-	15/09/25
Vanadium	0.0011	mg/L	-	15/09/25
Zinc	0.012	mg/L	-	15/09/25

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well dry at time of sampling

Name	Reading	Units	Licence Limit	Date
Aluminium	1.160	mg/L	-	16/09/25
Ammonia	0.01	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	<0.00005	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0015	mg/L	-	16/09/25
Electrical Conductivity	89	uS/cm	-	16/09/25
Iron	1.080	mg/L	-	16/09/25
Lead	0.001	mg/L	-	16/09/25
Magnesium	2	mg/L	-	16/09/25
Manganese	0.004	mg/L	-	16/09/25
Nickel	0.001	mg/L	-	16/09/25
pH	5.68	pH units	-	16/09/25
Potassium	<1	mg/L	-	16/09/25
Selenium	0.0004	mg/L	-	16/09/25
Sodium	16	mg/L	-	16/09/25
Standing Water Level	1.48	m	-	16/09/25
Vanadium	0.0032	mg/L	-	16/09/25
Zinc	0.006	mg/L	-	16/09/25

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	-	-	-	-	0
Chromium (hexavalant)	-	-	-	-	0
Chromium (trivalent)	-	-	-	-	0
Copper	-	-	-	-	0
Manganese	-	-	-	-	0
Nickel	-	-	-	-	0
PFOS	-	-	-	0.13	0
PFOA	-	-	-	220	0
pH	-	-	-	6.5-9	0
Selenium	-	-	-	-	0
Total Suspended solids	-	-	-	50	0
Vanadium	-	-	-	-	0
Zinc	-	-	-	8	0

Daily Volume Discharged		
Min	Ave	Max

EPA Identification no. 38 – Monitoring overflow point from the attenuation pond
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Frequency	Reading	Project Criteria	Date
Cadmium	Daily during any discharge	-	-	
Chromium (hexavalant)	Daily during any discharge	-	-	
Chromium (trivalent)	Daily during any discharge	-	-	
Copper	Daily during any discharge	-	-	
Manganese	Daily during any discharge	-	-	
Nickel	Daily during any discharge	-	-	
PFOS	Daily during any discharge	-	0.13	
PFOA	Daily during any discharge	-	220	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	8	

EPA Identification no. 39 – Monitoring overflow point from SW01A
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 40 – Monitoring overflow point from VAR03
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 41 – Monitoring from the attenuation Pond Discharge Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	

EPA Identification no. 42 – Monitoring from the Transgrid Outlet Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13	
PFOA	-	220	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50	
Vanadium	-	-	
Zinc	-	8	