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

Environmental Monitoring Data March 2026



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
1/03/2026	390	549	328	743	959	678
2/03/2026	485	582	336	803	914	672
3/03/2026	471	536	385	774	850	736
4/03/2026	499	598	419	806	861	774
5/03/2026	481	537	367	787	854	727
6/03/2026	498	560	393	830	878	755
7/03/2026	441	507	370	850	902	805
8/03/2026	404	445	343	807	898	704
9/03/2026	380	412	339	741	1119	640
10/03/2026	344	403	284	744	830	651
11/03/2026	353	396	311	796	1040	695
12/03/2026	337	400	318	757	992	700
13/03/2026	350	377	321	751	972	698
14/03/2026	347	383	312	766	1077	693
15/03/2026	366	419	289	769	902	664
16/03/2026	327	393	293	750	835	717
17/03/2026	360	413	313	821	878	733
18/03/2026	367	410	328	740	824	692
19/03/2026	383	420	347	754	866	725
20/03/2026	424	474	385	761	907	697
21/03/2026	397	502	317	817	948	736
22/03/2026	436	498	368	772	865	719
23/03/2026	393	458	339	783	861	712
24/03/2026	395	437	345	835	922	732
25/03/2026	407	466	348	806	1008	713
26/03/2026	401	461	327	807	874	700
27/03/2026	382	450	201	765	890	534
28/03/2026	371	416	315	750	928	595
29/03/2026	369	393	321	739	887	572
30/03/2026	377	452	325	825	954	666
31/03/2026	374	436	322	751	894	685

Unit 2 Boiler Continuous Emission Monitoring Summary

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

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
1/03/2026	302	420	239	496	654	446
2/03/2026	267	345	232	527	671	484
3/03/2026	341	374	248	550	696	461
4/03/2026	341	422	280	545	731	499
5/03/2026	302	413	246	513	697	476
6/03/2026	304	383	259	546	705	496
7/03/2026	288	375	214	575	754	551
8/03/2026	269	364	217	540	732	488
9/03/2026	312	367	217	492	684	449
10/03/2026	285	324	228	530	707	484
11/03/2026	273	356	225	519	712	467
12/03/2026	268	354	214	513	703	472
13/03/2026	303	355	272	531	680	506
14/03/2026	281	339	228	517	735	449
15/03/2026	316	374	215	514	683	415
16/03/2026	341	408	279	525	681	488
17/03/2026	364	445	311	547	715	503
18/03/2026	341	444	287	496	612	456
19/03/2026	348	419	320	494	594	458
20/03/2026	341	415	280	493	632	453
21/03/2026	309	382	215	556	790	490
22/03/2026	305	384	225	523	692	463
23/03/2026	322	376	283	515	660	483
24/03/2026	305	359	272	518	775	425
25/03/2026	278	371	235	514	654	469
26/03/2026	281	338	210	531	678	439
27/03/2026	269	369	137	528	761	281
28/03/2026	276	347	229	522	771	447
29/03/2026	351	408	298	521	702	436
30/03/2026	297	366	221	584	820	524
31/03/2026	299	373	210	536	703	446

Unit 3 Boiler Continuous Emission Monitoring Summary

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

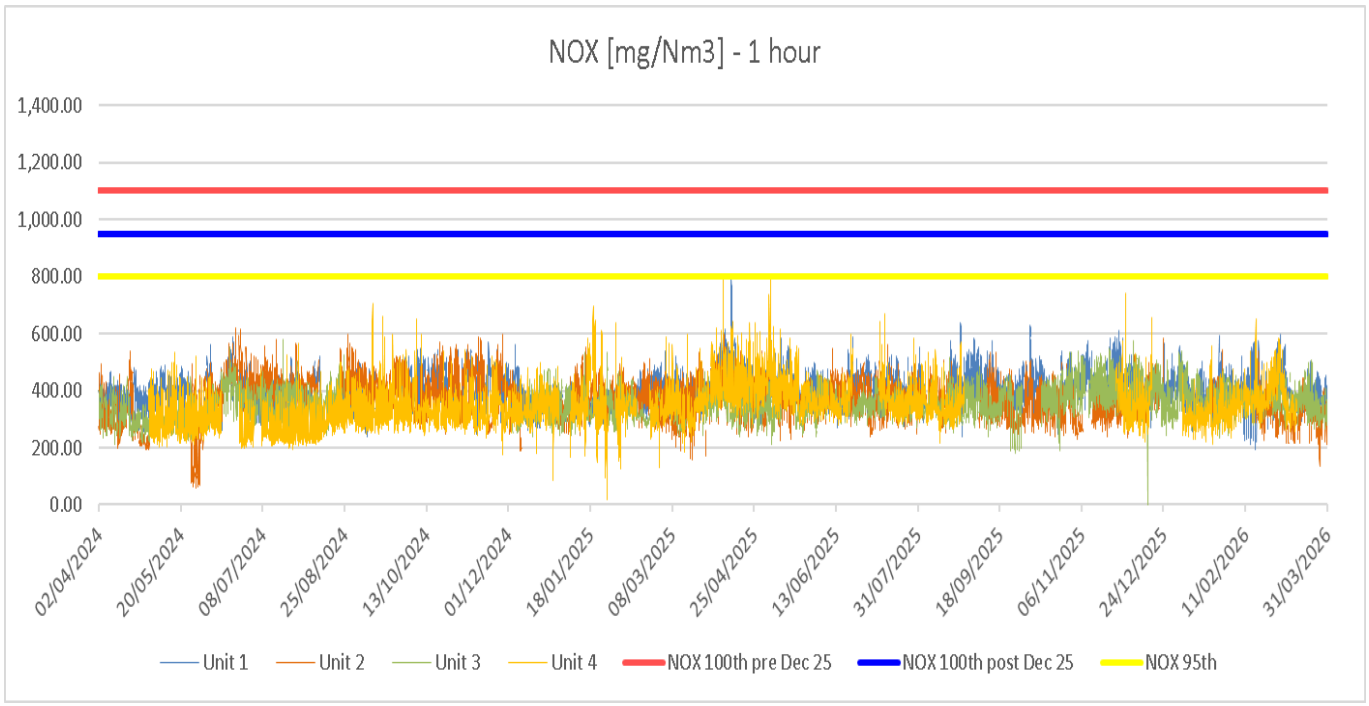
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
1/03/2026	379	464	321	732	755	669
2/03/2026	383	426	333	753	773	713
3/03/2026	370	461	274	731	769	648
4/03/2026	401	446	329	757	803	673
5/03/2026	390	437	321	733	760	668
6/03/2026	371	443	297	782	813	697
7/03/2026	362	453	270	831	864	765
8/03/2026	348	373	320	823	869	733
9/03/2026	356	461	333	806	831	785
10/03/2026	350	438	302	757	829	725
11/03/2026	347	380	310	799	828	736
12/03/2026	362	434	305	775	828	725
13/03/2026	376	398	346	782	810	696
14/03/2026	353	393	279	793	847	739
15/03/2026	393	437	319	766	818	657
16/03/2026	373	419	323	746	804	675
17/03/2026	381	397	334	749	815	669
18/03/2026	409	473	334	707	774	572
19/03/2026	384	460	314	691	722	654
20/03/2026	399	498	277	686	727	582
21/03/2026	379	491	287	797	852	653
22/03/2026	363	507	278	777	805	716
23/03/2026	379	485	291	770	798	669
24/03/2026	351	436	264	734	802	658
25/03/2026	347	401	288	773	823	603
26/03/2026	324	369	275	762	847	648
27/03/2026	315	375	271	782	828	721
28/03/2026	343	380	298	802	852	725
29/03/2026	341	387	289	765	825	641
30/03/2026	319	410	267	829	898	714
31/03/2026	324	370	280	760	799	710

Unit 4 Boiler Continuous Emission Monitoring Summary -

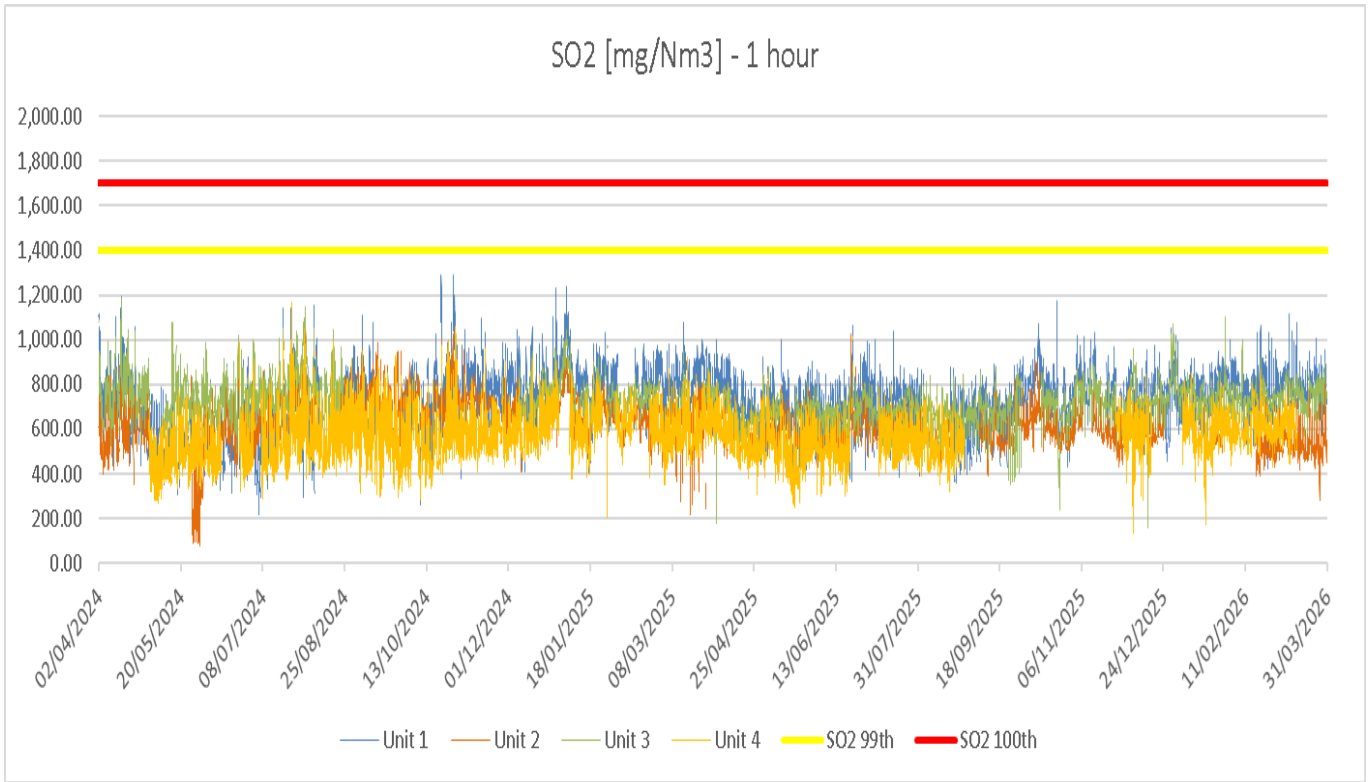
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 14-31 March 2026

	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
1/03/2026	453	545	385	599	704	524
2/03/2026	429	532	362	601	704	525
3/03/2026	510	585	421	594	694	539
4/03/2026	457	562	394	603	694	512
5/03/2026	430	542	368	590	678	505
6/03/2026	370	473	333	614	729	534
7/03/2026	342	415	260	647	768	611
8/03/2026	339	395	278	632	747	551
9/03/2026	301	329	258	566	802	439
10/03/2026	322	365	268	606	720	555
11/03/2026	349	388	278	637	736	507
12/03/2026	312	356	254	609	722	502
13/03/2026	329	374	278	599	716	509
14/03/2026	-	-	-	-	-	-
15/03/2026	-	-	-	-	-	-
16/03/2026	-	-	-	-	-	-
17/03/2026	-	-	-	-	-	-
18/03/2026	-	-	-	-	-	-
19/03/2026	-	-	-	-	-	-
20/03/2026	-	-	-	-	-	-
21/03/2026	-	-	-	-	-	-
22/03/2026	-	-	-	-	-	-
23/03/2026	-	-	-	-	-	-
24/03/2026	-	-	-	-	-	-
25/03/2026	-	-	-	-	-	-
26/03/2026	-	-	-	-	-	-
27/03/2026	-	-	-	-	-	-
28/03/2026	-	-	-	-	-	-
29/03/2026	-	-	-	-	-	-
30/03/2026	-	-	-	-	-	-
31/03/2026	-	-	-	-	-	-

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	4	mg/m^3	50	2/12/2025
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	240	m^3/sec	-	2/12/2025
Moisture	6 monthly	5.6	%	-	2/12/2025
Oxygen	6 monthly	9.6	%	-	2/12/2025
Solid Particles	Quarterly	5.9	mg/m^3	-	2/12/2025
Temperature	6 monthly	121	Deg C	-	2/12/2025
Carbon dioxide	6 monthly	11	%	-	2/12/2025
Chlorine	6 monthly	0.110	mg/m^3	-	2/12/2025
Fluorine	6 monthly	12.0	mg/m^3	-	2/12/2025
Hydrogen chloride	6 monthly	18	mg/m^3	-	2/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.2	mg/m^3	-	2/12/2025
Volatile organic compounds as n-	6 monthly	0.120	mg/m^3	-	2/12/2025
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		280	m^3/sec	-	2/12/2025
Moisture		4.3	%	-	2/12/2025
Oxygen		9.2	%	-	2/12/2025
Solid Particles	Quarterly	2.2	mg/m^3	-	2/12/2025
Temperature		108	Deg C	-	2/12/2025
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	8	mg/m^3	50	3/12/2025
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	240	m^3/sec	-	3/12/2025
Moisture	6 monthly	5.0	%	-	3/12/2025
Oxygen	6 monthly	8	%	-	3/12/2025
Solid Particles	Quarterly	14	mg/m^3	-	3/12/2025
Temperature	6 monthly	116	Deg C	-	3/12/2025
Carbon dioxide	6 monthly	11.8	%	-	3/12/2025
Chlorine	6 monthly	0.035	mg/m^3	-	3/12/2025
Fluorine	6 monthly	8.8	mg/m^3	-	3/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	3/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.5	mg/m^3	-	3/12/2025
Volatile organic compounds as n-	6 monthly	0.13	mg/m^3	-	3/12/2025
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		240	m^3/sec	-	3/12/2025
Moisture		5.0	%	-	3/12/2025
Oxygen		8.7	%	-	3/12/2025
Solid Particles	Quarterly	2.5	mg/m^3	-	3/12/2025
Temperature		108	Deg C	-	3/12/2025
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	1	mg/m^3	50	4/12/2025
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	240	m^3/sec	-	4/12/2025
Moisture	6 monthly	6	%	-	4/12/2025
Oxygen	6 Monthly	9.5	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature	6 monthly	115	Deg C	-	4/12/2025
Carbon dioxide	6 monthly	11.7	%	-	4/12/2025
Chlorine	6 monthly	0.012	mg/m^3	-	4/12/2025
Fluorine	6 monthly	6.7	mg/m^3	-	4/12/2025
Hydrogen chloride	6 monthly	16	mg/m^3	-	4/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.7	mg/m^3	-	4/12/2025
Volatile organic compounds as n-propane equivalent	6 monthly	1.7	mg/m^3	-	4/12/2025
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		240	m^3/sec	-	4/12/2025
Moisture		5.6	%	-	4/12/2025
Oxygen		8.6	%	-	4/12/2025
Solid Particles	Quarterly	1.4	mg/m^3	-	4/12/2025
Temperature		112	Deg C	-	4/12/2025
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	3	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	250	m^3/sec	-	05/12/2025
Moisture	6 monthly	4.9	%	-	05/12/2025
Oxygen	6 monthly	10.3	%	-	05/12/2025
Solid Particles	Quarterly	1.0	mg/m^3	-	05/12/2025
Temperature	6 monthly	118	Deg C	-	05/12/2025
Carbon dioxide	6 monthly	9.8	%	-	05/12/2025
Chlorine	6 monthly	0.077	mg/m^3	-	05/12/2025
Fluorine	6 monthly	7.4	mg/m^3	-	05/12/2025
Hydrogen chloride	6 monthly	10	mg/m^3	-	05/12/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	0.92	mg/m^3	-	05/12/2025
Volatile organic compounds as n-	6 monthly	0.15	mg/m^3	-	05/12/2025
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		270	m^3/sec	-	05/12/2025
Moisture		4.4	%	-	05/12/2025
Oxygen		10.3	%	-	05/12/2025
Solid Particles	Quarterly	4.6	mg/m^3	-	05/12/2025
Temperature		120	Deg C	-	05/12/2025
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
25.8	0.5	27.52	8.21	33.87	79.5	5.20	3.75

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.017	mg/L	-	5/03/26
Ammonia	<0.005	mg/L	-	5/03/26
Arsenic III	<0.008	mg/L	-	5/03/26
Arsenic V	<0.008	mg/L	-	5/03/26
Cadmium	<0.0002	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/03/26
Copper	<0.001	mg/L	-	5/03/26
Iron	0.033	mg/L	-	5/03/26
Lead	<0.0002	mg/L	-	5/03/26
Manganese	0.0048	mg/L	-	5/03/26
Nickel	<0.0005	mg/L	-	5/03/26
pH	8.06	pH units	-	5/03/26
Selenium	<0.002	mg/L	-	5/03/26
Total Suspended Solids	22	mg/L	-	5/03/26
Vanadium	0.0024	mg/L	-	5/03/26
Zinc	0.006	mg/L	-	5/03/26

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
24.96	0.5	27.27	8.22	33.50	78.4	5.16	4.25

Laboratory Analysis				
Name	**Reading**	**Units**	**Licence**	**Date**
Aluminium	0.013	mg/L	-	5/03/26
Ammonia	<0.005	mg/L	-	5/03/26
Arsenic III	<0.008	mg/L	-	5/03/26
Arsenic V	<0.008	mg/L	-	5/03/26
Cadmium	<0.0002	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/03/26
Copper	<0.001	mg/L	-	5/03/26
Iron	0.018	mg/L	-	5/03/26
Lead	<0.0002	mg/L	-	5/03/26
Manganese	0.0040	mg/L	-	5/03/26
Nickel	<0.0005	mg/L	-	5/03/26
pH	8.13	pH units	-	5/03/26
Selenium	<0.002	mg/L	-	5/03/26
Total Suspended Solids	25	mg/L	-	5/03/26
Vanadium	0.0024	mg/L	-	5/03/26
Zinc	<0.005	mg/L	-	5/03/26

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
25.3	0.5	25.69	8.21	33.88	105.4	7.10	8.75

Laboratory Analysis

Name	Reading	Units	Licence	Date
Aluminium	0.022	mg/L	-	5/03/26
Ammonia	0.017	mg/L	-	5/03/26
Arsenic III	<0.008	mg/L	-	5/03/26
Arsenic V	<0.008	mg/L	-	5/03/26
Cadmium	<0.0002	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/03/26
Copper	0.004	mg/L	-	5/03/26
Iron	0.023	mg/L	-	5/03/26
Lead	0.0006	mg/L	-	5/03/26
Manganese	0.0034	mg/L	-	5/03/26
Nickel	0.0010	mg/L	-	5/03/26
pH	8.10	pH units	-	5/03/26
Selenium	<0.002	mg/L	-	5/03/26
Total Suspended Solids	16	mg/L	-	5/03/26
Vanadium	0.0022	mg/L	-	5/03/26
Zinc	0.206	mg/L	-	5/03/26

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
25.36	0.5	30.15	8.12	34.51	90.2	5.63	3.75

Laboratory Analysis

Name	**Reading**	**Units**	**Licence**	**Date**
Aluminium	0.018	mg/L	-	5/03/26
Ammonia	0.007	mg/L	-	5/03/26
Arsenic III	<0.008	mg/L	-	5/03/26
Arsenic V	<0.008	mg/L	-	5/03/26
Cadmium	<0.0002	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.001	mg/L	-	5/03/26
Copper	<0.001	mg/L	-	5/03/26
Iron	0.048	mg/L	-	5/03/26
Lead	<0.0002	mg/L	-	5/03/26
Manganese	0.0049	mg/L	-	5/03/26
Nickel	<0.0005	mg/L	-	5/03/26
pH	8.02	pH units	-	5/03/26
Selenium	<0.002	mg/L	-	5/03/26
Total Suspended Solids	19	mg/L	-	5/03/26
Vanadium	0.0026	mg/L	-	5/03/26
Zinc	<0.005	mg/L	-	5/03/26

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	0.161	mg/L	-	5/03/26
Ammonia	1.90	mg/L	-	5/03/26
Arsenic III	<0.0005	mg/L	-	5/03/26
Arsenic V	0.0075	mg/L	-	5/03/26
Cadmium	0.00008	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/26
Copper	0.0059	mg/L	-	5/03/26
Iron	0.086	mg/L	-	5/03/26
Lead	0.0003	mg/L	-	5/03/26
Manganese	0.159	mg/L	-	5/03/26
Nickel	0.0039	mg/L	-	5/03/26
Nitrite and Nitrate as N	7.37	mg/L	-	5/03/26
Nitrogen	9.7	mg/L	-	5/03/26
pH	6.62	pH units	-	5/03/26
Phosphorus as P	1.07	mg/L	-	5/03/26
Reactive Phosphorus as P	0.91	mg/L	-	5/03/26
Selenium	0.0641	mg/L	-	5/03/26
Total Kjeldahl Nitrogen	2.3	mg/L	-	5/03/26
Total Suspended Solids	39	mg/L	-	5/03/26
Vanadium	0.119	mg/L	-	5/03/26
Zinc	0.017	mg/L	-	5/03/26

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	0.053	mg/L	-	5/03/26
Ammonia	0.012	mg/L	-	5/03/26
Arsenic III	<0.008	mg/L	-	5/03/26
Arsenic V	<0.008	mg/L	-	5/03/26
Cadmium	<0.0002	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/26
Copper	0.0010	mg/L	-	5/03/26
Iron	0.082	mg/L	-	5/03/26
Lead	<0.0002	mg/L	-	5/03/26
Manganese	0.0066	mg/L	-	5/03/26
Nickel	<0.0005	mg/L	-	5/03/26
pH	7.99	pH units	-	5/03/26
Selenium	<0.001	mg/L	-	5/03/26
Total Suspended Solids	83	mg/L	-	5/03/26
Vanadium	0.0025	mg/L	-	5/03/26
Zinc	<0.005	mg/L	-	5/03/26
Dissolved Oxygen	6.82	mg/L	-	5/03/26
Field Temperature	26.9	degC	-	5/03/26
Salinity	35.93	ppt	-	5/03/26
Secchi Disk	3	m	-	5/03/26
Temperature – Average	26.28	deg C	-	March 26
Temperature – Minimum	22.63	deg C	-	March 26
Temperature - Maximum	28.97	deg C	-	March 26

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0009	mg/L	0.005	5/03/26
Iron	0.127	mg/L	0.3	5/03/26
Selenium	<0.001	mg/L	0.002	5/03/26

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	32.23	deg C	35.5	37.5	38.5	March 26
Temperature – Minimum	25.38	deg C				March 26
Temperature - Maximum	35.88	deg C				March 26

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	0.28	ML		March 26
Average Daily Discharge from Ash Dam	6.13	ML		March 26
Maximum Daily Discharge from Ash Dam	14.83	ML	150	March 26
Monthly Discharge from Ash Dam	183.83	ML	-	March 26

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	0.020	mg/L	-	5/03/26
Ammonia	2.33	mg/L	-	5/03/26
Arsenic III	0.0028	mg/L	-	5/03/26
Arsenic V	0.0012	mg/L	-	5/03/26
Cadmium	<0.00005	mg/L	-	5/03/26
Chromium (Trivalent)	<0.001	mg/L	-	5/03/26
Chromium (VI) Compounds	<0.01	mg/L	-	5/03/26
Copper	0.0006	mg/L	-	5/03/26
Iron	5.18	mg/L	-	5/03/26
Lead	<0.0001	mg/L	-	5/03/26
Manganese	0.945	mg/L	-	5/03/26
Nickel	0.0019	mg/L	-	5/03/26
Nitrite and Nitrate as N	0.089	mg/L	-	5/03/26
Nitrogen	3.58	mg/L	-	5/03/26
pH	7.05	pH units	6-9.5	5/03/26
Phosphorus as P	0.395	mg/L	-	5/03/26
Reactive Phosphorus as P	0.007	mg/L	-	5/03/26
Selenium	0.0004	mg/L	-	5/03/26
Total Kjeldahl Nitrogen	3.49	mg/L	-	5/03/26
Total Suspended Solids	36	mg/L	50	5/03/26
Vanadium	0.0004	mg/L	-	5/03/26
Zinc	0.	mg/L	-	5/03/26

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert
MR217 did not discharge in the month, and no background sample taken due to insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	5/03/26
Ammonia		mg/L	-	5/03/26
Arsenic III		mg/L	-	5/03/26
Arsenic V		mg/L	-	5/03/26
Cadmium		mg/L	-	5/03/26
Chromium (Trivalent)		mg/L	-	5/03/26
Chromium (VI) Compounds		mg/L	-	5/03/26
Copper		mg/L	-	5/03/26
Iron		mg/L	-	5/03/26
Lead		mg/L	-	5/03/26
Manganese		mg/L	-	5/03/26
Nickel		mg/L	-	5/03/26
Nitrite and Nitrate as N		mg/L	-	5/03/26
Nitrogen		mg/L	-	5/03/26
pH		pH units	6-9.5	5/03/26
Phosphorus as P		mg/L	-	5/03/26
Reactive Phosphorus as P		mg/L	-	5/03/26
Selenium		mg/L	-	5/03/26
Total Kjeldahl Nitrogen		mg/L	-	5/03/26
Total Suspended Solids		mg/L	50	5/03/26
Vanadium		mg/L	-	5/03/26
Zinc		mg/L	-	5/03/26

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	1.24	mg/L	-	26/03/26
Ammonia	0.22	mg/L	-	26/03/26
Arsenic (III)	<0.0005	mg/L	-	26/03/26
Arsenic (V)	0.0007	mg/L	-	26/03/26
Cadmium	<0.00005	mg/L	-	26/03/26
Calcium	3	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	0.0026	mg/L	-	26/03/26
Electrical Conductivity	506	uS/cm	-	26/03/26
Iron	3.11	mg/L	-	26/03/26
Lead	0.0132	mg/L	-	26/03/26
Magnesium	5	mg/L	-	26/03/26
Manganese	0.162	mg/L	-	26/03/26
Nickel	0.0057	mg/L	-	26/03/26
pH	5.91	pH units	-	26/03/26
Potassium	4	mg/L	-	26/03/26
Selenium	<0.0002	mg/L	-	26/03/26
Sodium	88	mg/L	-	26/03/26
Standing Water Level	5.99	m	-	26/03/26
Vanadium	0.0024	mg/L	-	26/03/26
Zinc	0.046	mg/L	-	26/03/26

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.23	mg/L	-	26/03/26
Ammonia	6.64	mg/L	-	26/03/26
Arsenic (III)	0.0005	mg/L	-	26/03/26
Arsenic (V)	0.0008	mg/L	-	26/03/26
Cadmium	0.00008	mg/L	-	26/03/26
Calcium	268	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	0.0011	mg/L	-	26/03/26
Electrical Conductivity	26,500	uS/cm	-	26/03/26
Iron	21.8	mg/L	-	26/03/26
Lead	0.0027	mg/L	-	26/03/26
Magnesium	430	mg/L	-	26/03/26
Manganese	0.587	mg/L	-	26/03/26
Nickel	0.0010	mg/L	-	26/03/26
pH	6.54	pH units	-	26/03/26
Potassium	186	mg/L	-	26/03/26
Selenium	0.0007	mg/L	-	26/03/26
Sodium	5,020	mg/L	-	26/03/26
Standing Water Level	5.33	m	-	26/03/26
Vanadium	0.0063	mg/L	-	26/03/26
Zinc	0.016	mg/L	-	26/03/26

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.028	mg/L	-	26/03/26
Ammonia	3.58	mg/L	-	26/03/26
Arsenic (III)	0.0044	mg/L	-	26/03/26
Arsenic (V)	0.0011	mg/L	-	26/03/26
Cadmium	<0.00005	mg/L	-	26/03/26
Calcium	399	mg/L	-	26/03/26
Chromium (trivalent)	<0.01	mg/L	-	26/03/26
Chromium (VI) compounds	<0.01	mg/L	-	26/03/26
Copper	<0.0005	mg/L	-	26/03/26
Electrical Conductivity	17,700	uS/cm	-	26/03/26
Iron	9.18	mg/L	-	26/03/26
Lead	0.0012	mg/L	-	26/03/26
Magnesium	217	mg/L	-	26/03/26
Manganese	0.355	mg/L	-	26/03/26
Nickel	0.0009	mg/L	-	26/03/26
pH	6.70	pH units	-	26/03/26
Potassium	120	mg/L	-	26/03/26
Selenium	0.0003	mg/L	-	26/03/26
Sodium	3,200	mg/L	-	26/03/26
Standing Water Level	2.175	m	-	26/03/26
Vanadium	0.0011	mg/L	-	26/03/26
Zinc	0.012	mg/L	-	26/03/26

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		mg/L	-	26/03/26
Ammonia		mg/L	-	26/03/26
Arsenic (III)		mg/L	-	26/03/26
Arsenic (V)		mg/L	-	26/03/26
Cadmium		mg/L	-	26/03/26
Calcium		mg/L	-	26/03/26
Chromium (trivalent)		mg/L	-	26/03/26
Chromium (VI) compounds		mg/L	-	26/03/26
Copper		mg/L	-	26/03/26
Electrical Conductivity		uS/cm	-	26/03/26
Iron		mg/L	-	26/03/26
Lead		mg/L	-	26/03/26
Magnesium		mg/L	-	26/03/26
Manganese		mg/L	-	26/03/26
Nickel		mg/L	-	26/03/26
pH		pH units	-	26/03/26
Potassium		mg/L	-	26/03/26
Selenium		mg/L	-	26/03/26
Sodium		mg/L	-	26/03/26
Standing Water Level		m	-	26/03/26
Vanadium		mg/L	-	26/03/26
Zinc		mg/L	-	26/03/26

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (3 discharge events).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	<0.0001	<0.0001	<0.0001	-	3
Chromium (hexavalant)	<0.1	<0.1	<0.1	-	3
Chromium (trivalent)	<0.1	<0.1	<0.1	-	3
Copper	1.4	3.7	8.4	-	3
Lead	<0.001	<0.001	<0.001		
Manganese	0.006	0.034	0.086	-	3
Nickel	0.0007	0.0022	0.005	-	3
PFOS	0.0023	0.0026	0.003	0.13 ug/L	3
PFOA	0.0008	0.0013	0.0016	220 ug/L	3
pH	7.8	8.01	8.22	6.5-9	3
Selenium	0.6	0.6	0.7	-	3
Total Suspended solids	<5	N/C	15	50mg/L	3
Vanadium	0.04	N/C	<0.1	-	3
Zinc	30	53	70	-	3

Daily Volume Discharged		
Min	Ave	Max
0.5	1.7	2.5

N/C Non calculable

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 ug/L	
PFOA	Daily during any discharge	-	220 ug/L	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50mg/L	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	-	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	-	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	-	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	-	

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 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	-	