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

# Environmental Monitoring Data July 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 |
| 01/07/2025 | 467 | 517 | 347 | 675 | 906 | 413 |
| 02/07/2025 | 458 | 524 | 290 | 704 | 992 | 477 |
| 03/07/2025 | 430 | 506 | 342 | 746 | 984 | 616 |
| 04/07/2025 | 404 | 471 | 321 | 694 | 864 | 551 |
| 05/07/2025 | 408 | 450 | 330 | 633 | 844 | 476 |
| 06/07/2025 | 425 | 499 | 315 | 686 | 999 | 495 |
| 07/07/2025 | 413 | 484 | 330 | 635 | 763 | 515 |
| 08/07/2025 | 387 | 418 | 343 | 698 | 816 | 533 |
| 09/07/2025 | 382 | 439 | 335 | 659 | 892 | 516 |
| 10/07/2025 | 388 | 454 | 305 | 667 | 860 | 546 |
| 11/07/2025 | 392 | 487 | 312 | 676 | 831 | 542 |
| 12/07/2025 | 398 | 440 | 336 | 679 | 778 | 535 |
| 13/07/2025 | 413 | 484 | 313 | 664 | 834 | 450 |
| 14/07/2025 | 442 | 526 | 344 | 663 | 782 | 530 |
| 15/07/2025 | 458 | 516 | 350 | 665 | 810 | 501 |
| 16/07/2025 | 432 | 527 | 363 | 654 | 812 | 459 |
| 17/07/2025 | 410 | 475 | 372 | 740 | 1040 | 434 |
| 18/07/2025 | 422 | 474 | 349 | 665 | 832 | 514 |
| 19/07/2025 | 443 | 521 | 366 | 679 | 835 | 535 |
| 20/07/2025 | 437 | 505 | 369 | 656 | 825 | 385 |
| 21/07/2025 | 395 | 450 | 314 | 725 | 887 | 409 |
| 22/07/2025 | 378 | 426 | 317 | 671 | 783 | 509 |
| 23/07/2025 | 399 | 467 | 303 | 739 | 875 | 534 |
| 24/07/2025 | 352 | 396 | 273 | 665 | 801 | 467 |
| 25/07/2025 | 379 | 422 | 334 | 657 | 804 | 475 |
| 26/07/2025 | 418 | 518 | 357 | 667 | 753 | 464 |
| 27/07/2025 | 391 | 440 | 329 | 695 | 846 | 485 |
| 28/07/2025 | 391 | 486 | 315 | 710 | 840 | 498 |
| 29/07/2025 | 434 | 490 | 349 | 692 | 823 | 566 |
| 30/07/2025 | 433 | 483 | 376 | 666 | 823 | 503 |
| 31/07/2025 | 405 | 440 | 343 | 645 | 828 | 538 |

## *Unit 2 Boiler Continuous Emission Monitoring Summary*

*EPA Identification no. 4 - Air emissions monitoring, Boiler 2 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 |
| 01/07/2025 | 412 | 452 | 316 | 614 | 757 | 500 |
| 02/07/2025 | 386 | 461 | 276 | 584 | 727 | 472 |
| 03/07/2025 | 368 | 451 | 238 | 626 | 773 | 537 |
| 04/07/2025 | 321 | 460 | 245 | 628 | 711 | 572 |
| 05/07/2025 | 289 | 366 | 248 | 573 | 678 | 509 |
| 06/07/2025 | 354 | 455 | 263 | 581 | 680 | 545 |
| 07/07/2025 | 401 | 474 | 312 | 562 | 655 | 526 |
| 08/07/2025 | 401 | 471 | 334 | 582 | 697 | 535 |
| 09/07/2025 | 363 | 504 | 262 | 572 | 719 | 527 |
| 10/07/2025 | 372 | 468 | 265 | 578 | 699 | 554 |
| 11/07/2025 | 381 | 461 | 268 | 566 | 669 | 537 |
| 12/07/2025 | 365 | 438 | 295 | 568 | 674 | 527 |
| 13/07/2025 | 352 | 420 | 268 | 569 | 691 | 525 |
| 14/07/2025 | 392 | 562 | 292 | 585 | 691 | 559 |
| 15/07/2025 | 376 | 493 | 312 | 588 | 709 | 541 |
| 16/07/2025 | 410 | 485 | 353 | 592 | 699 | 561 |
| 17/07/2025 | 388 | 421 | 344 | 594 | 713 | 552 |
| 18/07/2025 | 393 | 431 | 326 | 587 | 702 | 556 |
| 19/07/2025 | 360 | 439 | 278 | 580 | 706 | 532 |
| 20/07/2025 | 369 | 492 | 268 | 585 | 691 | 547 |
| 21/07/2025 | 369 | 440 | 298 | 607 | 727 | 541 |
| 22/07/2025 | 355 | 408 | 308 | 569 | 661 | 539 |
| 23/07/2025 | 344 | 408 | 277 | 599 | 744 | 509 |
| 24/07/2025 | 334 | 413 | 264 | 601 | 708 | 547 |
| 25/07/2025 | 325 | 397 | 275 | 614 | 715 | 565 |
| 26/07/2025 | 355 | 460 | 287 | 610 | 700 | 552 |
| 27/07/2025 | 340 | 398 | 280 | 602 | 695 | 545 |
| 28/07/2025 | 362 | 466 | 280 | 602 | 731 | 554 |
| 29/07/2025 | 420 | 463 | 371 | 596 | 704 | 560 |
| 30/07/2025 | 430 | 493 | 378 | 592 | 709 | 544 |
| 31/07/2025 | 345 | 443 | 245 | 548 | 710 | 445 |

## Unit 3 Boiler Continuous Emission Monitoring Summary

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

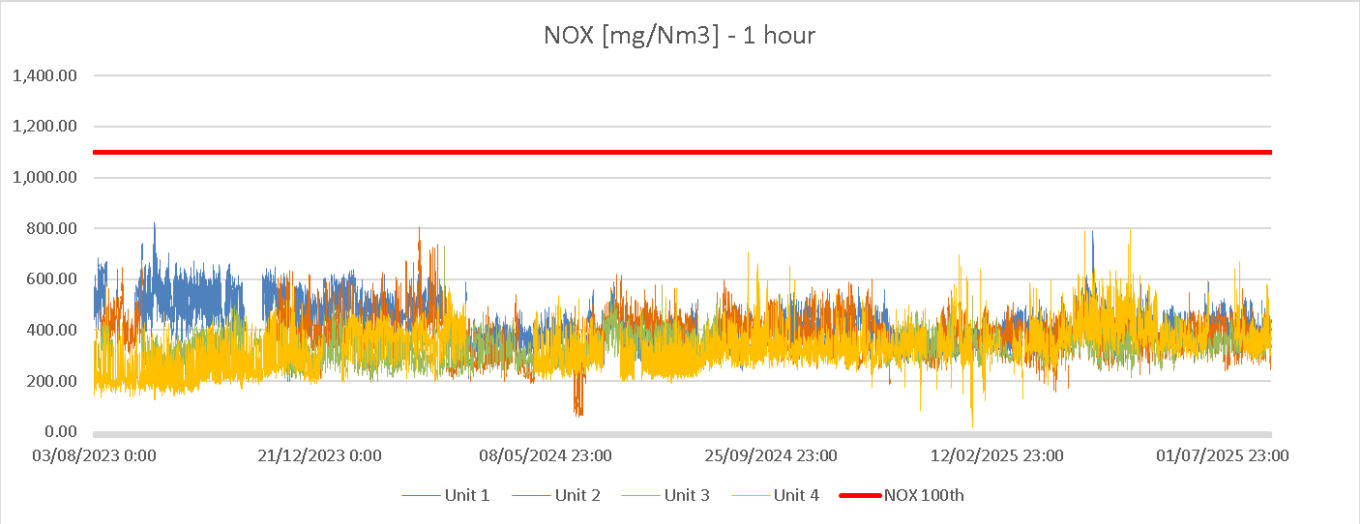
| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Daily Max Hourly Average | Daily Min Hourly Average | Daily Ave | Daily Max Hourly Average | Daily Min Hourly Average |
| 01/07/2025 | 355 | 372 | 326 | 727 | 786 | 669 |
| 02/07/2025 | 334 | 390 | 279 | 723 | 760 | 696 |
| 03/07/2025 | 352 | 397 | 306 | 729 | 809 | 612 |
| 04/07/2025 | 348 | 390 | 299 | 743 | 797 | 588 |
| 05/07/2025 | 355 | 380 | 314 | 658 | 760 | 539 |
| 06/07/2025 | 355 | 443 | 299 | 676 | 706 | 646 |
| 07/07/2025 | 399 | 448 | 366 | 652 | 681 | 626 |
| 08/07/2025 | 369 | 411 | 319 | 683 | 751 | 605 |
| 09/07/2025 | 337 | 385 | 305 | 673 | 743 | 631 |
| 10/07/2025 | 351 | 409 | 307 | 679 | 697 | 553 |
| 11/07/2025 | 350 | 404 | 309 | 661 | 702 | 522 |
| 12/07/2025 | 348 | 382 | 294 | 676 | 708 | 587 |
| 13/07/2025 | 356 | 395 | 334 | 680 | 733 | 638 |
| 14/07/2025 | 371 | 417 | 329 | 698 | 729 | 675 |
| 15/07/2025 | 367 | 403 | 336 | 683 | 706 | 670 |
| 16/07/2025 | 362 | 384 | 348 | 680 | 716 | 517 |
| 17/07/2025 | 333 | 363 | 283 | 659 | 708 | 546 |
| 18/07/2025 | 365 | 412 | 311 | 679 | 701 | 575 |
| 19/07/2025 | 347 | 405 | 299 | 683 | 708 | 596 |
| 20/07/2025 | 372 | 430 | 314 | 695 | 720 | 580 |
| 21/07/2025 | 355 | 400 | 315 | 712 | 742 | 632 |
| 22/07/2025 | 331 | 374 | 310 | 670 | 707 | 620 |
| 23/07/2025 | 318 | 370 | 274 | 694 | 742 | 517 |
| 24/07/2025 | 331 | 352 | 291 | 697 | 777 | 517 |
| 25/07/2025 | 319 | 349 | 279 | 733 | 778 | 700 |
| 26/07/2025 | 362 | 388 | 326 | 741 | 798 | 633 |
| 27/07/2025 | 327 | 363 | 291 | 736 | 782 | 661 |
| 28/07/2025 | 335 | 359 | 290 | 711 | 783 | 613 |
| 29/07/2025 | 366 | 403 | 334 | 711 | 748 | 584 |
| 30/07/2025 | 361 | 409 | 332 | 689 | 755 | 519 |
| 31/07/2025 | 341 | 368 | 269 | 721 | 747 | 567 |

**Unit 4 Boiler Continuous Emission Monitoring Summary -**

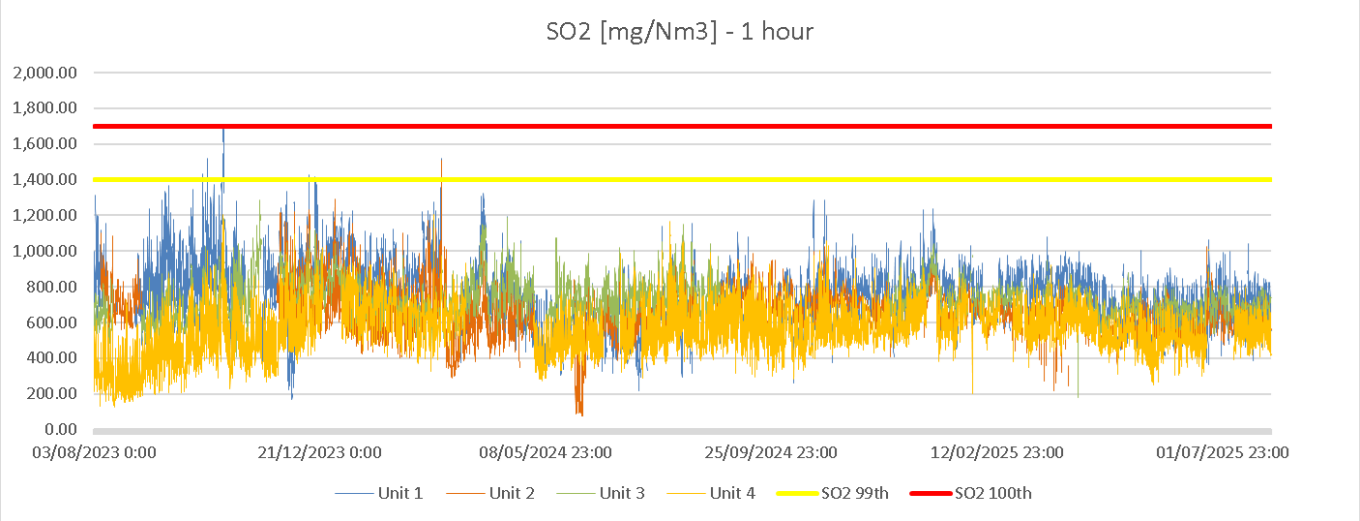
*EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air*
*Unit 4 offline 1-8 July 2025*

| | 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 |
| 01/07/2025 | - | - | - | - | - | - |
| 02/07/2025 | - | - | - | - | - | - |
| 03/07/2025 | - | - | - | - | - | - |
| 04/07/2025 | - | - | - | - | - | - |
| 05/07/2025 | - | - | - | - | - | - |
| 06/07/2025 | - | - | - | - | - | - |
| 07/07/2025 | - | - | - | - | - | - |
| 08/07/2025 | - | - | - | - | - | - |
| 09/07/2025 | 423 | 641 | 361 | 516 | 797 | 390 |
| 10/07/2025 | 405 | 560 | 338 | 562 | 674 | 423 |
| 11/07/2025 | 427 | 501 | 370 | 586 | 693 | 480 |
| 12/07/2025 | 496 | 670 | 315 | 584 | 766 | 442 |
| 13/07/2025 | 366 | 403 | 320 | 540 | 677 | 403 |
| 14/07/2025 | 401 | 498 | 322 | 581 | 672 | 478 |
| 15/07/2025 | 361 | 438 | 298 | 548 | 663 | 472 |
| 16/07/2025 | 350 | 378 | 321 | 605 | 797 | 476 |
| 17/07/2025 | 344 | 398 | 306 | 493 | 673 | 419 |
| 18/07/2025 | 323 | 370 | 290 | 480 | 637 | 414 |
| 19/07/2025 | 353 | 432 | 303 | 559 | 696 | 428 |
| 20/07/2025 | 344 | 448 | 279 | 525 | 648 | 417 |
| 21/07/2025 | 347 | 411 | 290 | 557 | 689 | 455 |
| 22/07/2025 | 342 | 430 | 285 | 530 | 679 | 458 |
| 23/07/2025 | 339 | 410 | 292 | 562 | 679 | 492 |
| 24/07/2025 | 342 | 388 | 308 | 569 | 737 | 440 |
| 25/07/2025 | 335 | 409 | 285 | 540 | 696 | 406 |
| 26/07/2025 | 389 | 466 | 319 | 536 | 635 | 444 |
| 27/07/2025 | 384 | 463 | 319 | 593 | 723 | 460 |
| 28/07/2025 | 376 | 453 | 319 | 601 | 762 | 497 |
| 29/07/2025 | 381 | 582 | 326 | 524 | 640 | 469 |
| 30/07/2025 | 369 | 526 | 333 | 497 | 615 | 436 |
| 31/07/2025 | 346 | 442 | 299 | 513 | 679 | 414 |

## 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 | 5.9 | $mg/m^3$ | 50 | 29/04/2025 |
| 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 | <0.00008 | $mg/m^3$ | 0.03 | 26/02/2025 |
| Mercury | 6 monthly | <0.0003 | $mg/m^3$ | 0.03 | 26/02/2025 |
| Type 1 and 2 substances in Aggregate | 6 monthly | <0.02 | $mg/m^3$ | 0.60 | 26/02/2025 |

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

| Name | Frequency | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|---|
| Flow Rate | 6 monthly | 230 | $m^3/sec$ | - | 29/04/2025 |
| Moisture | 6 monthly | 5.5 | % | - | 29/04/2025 |
| Oxygen | 6 monthly | 9.1 | % | - | 29/04/2025 |
| Solid Particles | Quarterly | 5.1 | $mg/m^3$ | - | 29/04/2025 |
| Temperature | 6 monthly | 119 | Deg C | - | 29/04/2025 |
| Carbon dioxide | 6 monthly | 11.3 | % | - | 29/04/2025 |
| 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 | <0.000076 | $mg/m^3$ | - | 26/02/2025 |
| Mercury | 6 monthly | 0.00025 | $mg/m^3$ | - | 26/02/2025 |
| Type 1 and Type 2 substances in | 6 monthly | <0.024 | $mg/m^3$ | - | 26/02/2025 |

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

| Name | Frequency | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|---|
| Flow Rate | | 250 | $m^3/sec$ | - | 29/04/2025 |
| Moisture | | 5.3 | % | - | 29/04/2025 |
| Oxygen | | 9.2 | % | - | 29/04/2025 |
| Solid Particles | Quarterly | 6.6 | $mg/m^3$ | - | 29/04/2025 |
| Temperature | | 115 | Deg C | - | 29/04/2025 |
| Cadmium | 6 monthly | <0.00008 | $mg/m^3$ | - | 26/02/2025 |
| Mercury | 6 monthly | <0.0004 | $mg/m^3$ | - | 26/02/2025 |
| Type 1 and Type 2 substances in Aggregate | 6 monthly | <0.017 | $mg/m^3$ | - | 26/02/2025 |

## 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 | 13 | mg/m$^3$ | 50 | 30/04/2025 |
| 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 | <0.00007 | mg/m$^3$ | 0.03 | 27/02/2025 |
| Mercury | 6 monthly | <0.0005 | mg/m$^3$ | 0.03 | 27/02/2025 |
| Type 1 and 2 substances in Aggregate | 6 monthly | <0.03 | mg/m$^3$ | 0.60 | 27/02/2025 |

*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 | - | 30/04/2025 |
| Moisture | 6 monthly | 4.9 | % | - | 30/04/2025 |
| Oxygen | 6 monthly | 8.8 | % | - | 30/04/2025 |
| Solid Particles | Quarterly | 4.0 | mg/m$^3$ | - | 30/04/2025 |
| Temperature | 6 monthly | 126 | Deg C | - | 30/04/2025 |
| Carbon dioxide | 6 monthly | 11.8 | % | - | 30/04/2025 |
| 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 | <0.0001 | mg/m$^3$ | - | 27/02/2025 |
| Mercury | 6 monthly | <0.0004 | mg/m$^3$ | - | 27/02/2025 |
| Type 1 and Type 2 substances in | 6 monthly | <0.051 | mg/m$^3$ | - | 27/02/2025 |

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

| Name | Frequency | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|---|
| Flow Rate | | 260 | m$^3$/sec | - | 30/04/2025 |
| Moisture | | 5.4 | % | - | 30/04/2025 |
| Oxygen | | 9.2 | % | - | 30/04/2025 |
| Solid Particles | Quarterly | 22 | mg/m$^3$ | - | 30/04/2025 |
| Temperature | | 116 | Deg C | - | 30/04/2025 |
| Cadmium | 6 monthly | <0.00005 | mg/m$^3$ | - | 27/02/2025 |
| Mercury | 6 monthly | 0.00062 | mg/m$^3$ | - | 27/02/2025 |
| Type 1 and Type 2 substances in Aggregate | 6 monthly | <0.017 | mg/m$^3$ | - | 27/02/2025 |

| 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 | 7.4 | $mg/m^3$ | 50 | 1/05/2025 |
| 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 | <0.0001 | $mg/m^3$ | 0.03 | 25/2/2025 |
| Mercury | 6 monthly | <0.00041 | $mg/m^3$ | 0.03 | 25/2/2025 |
| Type 1 and 2 substances in Aggregate | 6 monthly | <0.02 | $mg/m^3$ | 0.60 | 25/2/2025 |

| *EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A* | | | | | |
|---|---|---|---|---|---|
| **Name** | **Frequency** | **Reading** | **Units** | **Licence Limit** | **Date** |
| Flow Rate | 6 monthly | 280 | $m^3/sec$ | - | 1/05/2025 |
| Moisture | 6 monthly | 5.3 | % | - | 1/05/2025 |
| Oxygen | 6 Monthly | 8.1 | % | - | 1/05/2025 |
| Solid Particles | Quarterly | 5.2 | $mg/m^3$ | - | 1/05/2025 |
| Temperature | 6 monthly | 114 | Deg C | - | 1/05/2025 |
| Carbon dioxide | 6 monthly | 12 | % | - | 1/05/2025 |
| 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 | <0.00018 | $mg/m^3$ | - | 25/02/2025 |
| Mercury | 6 monthly | <0.00046 | $mg/m^3$ | - | 25/02/2025 |
| Type 1 and Type 2 substances in Aggregate | 6 monthly | <0.015 | $mg/m^3$ | - | 25/02/2025 |

| *EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B* | | | | | |
|---|---|---|---|---|---|
| **Name** | **Frequency** | **Reading** | **Units** | **Licence Limit** | **Date** |
| Flow Rate | | 300 | $m^3/sec$ | - | 1/05/2025 |
| Moisture | | 5.4 | % | - | 1/05/2025 |
| Oxygen | | 6.6 | % | - | 1/05/2025 |
| Solid Particles | Quarterly | 9.4 | $mg/m^3$ | - | 1/05/2025 |
| Temperature | | 115 | Deg C | - | 1/05/2025 |
| Cadmium | 6 monthly | <0.0001 | $mg/m^3$ | - | 25/02/2025 |
| Mercury | 6 monthly | 0.00035 | $mg/m^3$ | - | 25/02/2025 |
| Type 1 and Type 2 substances in Aggregate | 6 monthly | <0.032 | $mg/m^3$ | - | 25/02/2025 |

## 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 | 17 | mg/m$^3$ | 50 | 2/05/2025 |
| 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 | <0.00006 | mg/m$^3$ | 0.03 | 28/02/2025 |
| Mercury | 6 monthly | 0.00082 | mg/m$^3$ | 0.03 | 28/02/2025 |
| Type 1 and 2 substances in Aggregate | 6 monthly | <0.02 | mg/m$^3$ | 0.60 | 28/02/2025 |

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

| Name | Frequency | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|---|
| Flow Rate | 6 monthly | 290 | m$^3$/sec | - | 2/05/2025 |
| Moisture | 6 monthly | 5.6 | % | - | 2/05/2025 |
| Oxygen | 6 monthly | 10.6 | % | - | 2/05/2025 |
| Solid Particles | Quarterly | 11 | mg/m$^3$ | - | 2/05/2025 |
| Temperature | 6 monthly | 114 | Deg C | - | 2/05/2025 |
| Carbon dioxide | 6 monthly | 9.9 | % | - | 2/05/2025 |
| 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 | <0.00005 | mg/m$^3$ | - | 28/02/2025 |
| Mercury | 6 monthly | 0.0013 | mg/m$^3$ | - | 28/02/2025 |
| Type 1 and Type 2 substances in | 6 monthly | <0.017 | mg/m$^3$ | - | 28/02/2025 |

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

| Name | Frequency | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|---|
| Flow Rate | | 300 | m$^3$/sec | - | 2/05/2025 |
| Moisture | | 5.3 | % | - | 2/05/2025 |
| Oxygen | | 8.9 | % | - | 2/05/2025 |
| Solid Particles | Quarterly | 23 | mg/m$^3$ | - | 2/05/2025 |
| Temperature | | 114 | Deg C | - | 2/05/2025 |
| Cadmium | 6 monthly | <0.00007 | mg/m$^3$ | - | 28/02/2025 |
| Mercury | 6 monthly | 0.00032 | mg/m$^3$ | - | 28/02/2025 |
| Type 1 and Type 2 substances in Aggregate | 6 monthly | <0.015 | mg/m$^3$ | - | 28/02/2025 |

## 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 |
| 13.87 | 0.5 | 14.84 | 8.16 | 30.76 | 81.6 | 6.86 | 3.5 |

| | Laboratory Analysis | | | |
|---|---|---|---|---|
| **Name** | **Reading** | **Units** | **Licence Limit** | **Date** |
| Aluminium | 0.049 | mg/L | - | 8/07/25 |
| Ammonia | <0.005 | mg/L | - | 8/07/25 |
| Arsenic III | <0.008 | mg/L | - | 8/07/25 |
| Arsenic V | <0.008 | mg/L | - | 8/07/25 |
| Cadmium | <0.0002 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | 0.010 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 8/07/25 |
| Copper | <0.001 | mg/L | - | 8/07/25 |
| Iron | 0.091 | mg/L | - | 8/07/25 |
| Lead | <0.0002 | mg/L | - | 8/07/25 |
| Manganese | 0.0070 | mg/L | - | 8/07/25 |
| Nickel | 0.0012 | mg/L | - | 8/07/25 |
| pH | 8.03 | pH units | - | 8/07/25 |
| Selenium | <0.002 | mg/L | - | 8/07/25 |
| Total Suspended Solids | <5 | mg/L | - | 8/07/25 |
| Vanadium | 0.0020 | mg/L | - | 8/07/25 |
| Zinc | <0.005 | mg/L | - | 8/07/25 |

## 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 |
| 12.81 | 0.5 | 15.79 | 8.15 | 30.13 | 92.9 | 7.68 | 3.00 |

| Laboratory Analysis | | | | |
|---|---|---|---|---|
| **Name** | **Reading** | **Units** | **Licence Limits** | **Date** |
| Aluminium | 0.031 | mg/L | - | 8/07/25 |
| Ammonia | <0.005 | mg/L | - | 8/07/25 |
| Arsenic III | <0.008 | mg/L | - | 8/07/25 |
| Arsenic V | <0.008 | mg/L | - | 8/07/25 |
| Cadmium | <0.0002 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 8/07/25 |
| Copper | <0.001 | mg/L | - | 8/07/25 |
| Iron | 0.029 | mg/L | - | 8/07/25 |
| Lead | <0.0002 | mg/L | - | 8/07/25 |
| Manganese | 0.0046 | mg/L | - | 8/07/25 |
| Nickel | 0.0008 | mg/L | - | 8/07/25 |
| pH | 8.08 | pH units | - | 8/07/25 |
| Selenium | <0.002 | mg/L | - | 8/07/25 |
| Total Suspended Solids | <5 | mg/L | - | 8/07/25 |
| Vanadium | 0.0021 | mg/L | - | 8/07/25 |
| Zinc | <0.005 | mg/L | - | 8/07/25 |

## 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 |
| 12.2 | 0.5 | 14.49 | 8.02 | 30.77 | 103 | 8.68 | 4.00 |

**Laboratory Analysis**

| Name | Reading | Units | Licence Limits | Date |
|---|---|---|---|---|
| Aluminium | 0.011 | mg/L | - | 8/07/25 |
| Ammonia | <0.005 | mg/L | - | 8/07/25 |
| Arsenic III | <0.008 | mg/L | - | 8/07/25 |
| Arsenic V | <0.008 | mg/L | - | 8/07/25 |
| Cadmium | <0.0002 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 8/07/25 |
| Copper | <0.001 | mg/L | - | 8/07/25 |
| Iron | 0.014 | mg/L | - | 8/07/25 |
| Lead | 0.0004 | mg/L | - | 8/07/25 |
| Manganese | 0.0033 | mg/L | - | 8/07/25 |
| Nickel | <0.0005 | mg/L | - | 8/07/25 |
| pH | 8.08 | pH units | - | 8/07/25 |
| Selenium | <0.002 | mg/L | - | 8/07/25 |
| Total Suspended Solids | 5 | mg/L | - | 8/07/25 |
| Vanadium | 0.0014 | mg/L | - | 8/07/25 |
| Zinc | <0.005 | mg/L | - | 8/07/25 |

## 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 |
| 13.65 | 0.5 | 17.93 | 8.12 | 30.80 | 98 | 7.73 | 2.5 |

**Laboratory Analysis**

| Name | Reading | Units | Licence Limits | Date |
|---|---|---|---|---|
| Aluminium | 0.039 | mg/L | - | 8/07/25 |
| Ammonia | <0.005 | mg/L | - | 8/07/25 |
| Arsenic III | <0.008 | mg/L | - | 8/07/25 |
| Arsenic V | <0.008 | mg/L | - | 8/07/25 |
| Cadmium | <0.0002 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 8/07/25 |
| Copper | 0.001 | mg/L | - | 8/07/25 |
| Iron | 0.071 | mg/L | - | 8/07/25 |
| Lead | 0.0003 | mg/L | - | 8/07/25 |
| Manganese | 0.0059 | mg/L | - | 8/07/25 |
| Nickel | 0.0018 | mg/L | - | 8/07/25 |
| pH | 8.06 | pH units | - | 8/07/25 |
| Selenium | <0.002 | mg/L | - | 8/07/25 |
| Total Suspended Solids | <5 | mg/L | - | 8/07/25 |
| Vanadium | 0.0021 | mg/L | - | 8/07/25 |
| Zinc | <0.005 | mg/L | - | 8/07/25 |

## 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 | 0.181 | mg/L | - | 8/07/25 |
| Ammonia | 2.36 | mg/L | - | 8/07/25 |
| Arsenic III | <0.0005 | mg/L | - | 8/07/25 |
| Arsenic V | 0.0079 | mg/L | - | 8/07/25 |
| Cadmium | 0.00009 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 8/07/25 |
| Copper | 0.0034 | mg/L | - | 8/07/25 |
| Iron | 0.092 | mg/L | - | 8/07/25 |
| Lead | <0.0001 | mg/L | - | 8/07/25 |
| Manganese | 0.195 | mg/L | - | 8/07/25 |
| Nickel | 0.0029 | mg/L | - | 8/07/25 |
| Nitrite and Nitrate as N | 6.12 | mg/L | - | 8/07/25 |
| Nitrogen | 8.7 | mg/L | - | 8/07/25 |
| pH | 7.30 | pH units | - | 8/07/25 |
| Phosphorus as P | 0.29 | mg/L | - | 8/07/25 |
| Reactive Phosphorus as P | 0.30 | mg/L | - | 8/07/25 |
| Selenium | 0.0456 | mg/L | - | 8/07/25 |
| Total Kjeldahl Nitrogen | 2.6 | mg/L | - | 8/07/25 |
| Total Suspended Solids | 13 | mg/L | - | 8/07/25 |
| Vanadium | 0.0737 | mg/L | - | 8/07/25 |
| Zinc | 0.006 | mg/L | - | 8/07/25 |

## 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 | 0.033 | mg/L | - | 8/07/25 |
| Ammonia | <0.005 | mg/L | - | 8/07/25 |
| Arsenic III | <0.008 | mg/L | - | 8/07/25 |
| Arsenic V | <0.008 | mg/L | - | 8/07/25 |
| Cadmium | <0.0002 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 8/07/25 |
| Copper | <0.0009 | mg/L | - | 8/07/25 |
| Iron | 0.068 | mg/L | - | 8/07/25 |
| Lead | <0.0002 | mg/L | - | 8/07/25 |
| Manganese | 0.0064 | mg/L | - | 8/07/25 |
| Nickel | 0.0016 | mg/L | - | 8/07/25 |
| pH | 8.07 | pH units | - | 8/07/25 |
| Selenium | <0.001 | mg/L | - | 8/07/25 |
| Total Suspended Solids | 20 | mg/L | - | 8/07/25 |
| Vanadium | 0.0022 | mg/L | - | 8/07/25 |
| Zinc | <0.005 | mg/L | - | 8/07/25 |
| Dissolved Oxygen | 8.46 | mg/L | - | 8/07/25 |
| Field Temperature | 14.7 | degC | - | 8/07/25 |
| Salinity | 30.65 | ppt | - | 8/07/25 |
| Secchi Disk | 2.25 | m | - | 8/07/25 |
| Temperature – Average | 14.84 | deg C | - | July 25 |
| Temperature – Minimum | 13.94 | deg C | - | July 25 |
| Temperature - Maximum | 23.51 | deg C | - | July 25 |

## Eraring Cooling Water Outlet Canal

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

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Copper | 0.0018 | mg/L | 0.005 | 8/07/25 |
| Iron | 0.066 | mg/L | 0.3 | 8/07/25 |
| Selenium | <0.001 | mg/L | 0.002 | 8/07/25 |

## 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 | 23.22 | deg C | 35.5 | 37.5 | 38.5 | July 25 |
| Temperature – Minimum | 17.71 | deg C | | | | July 25 |
| Temperature - Maximum | 26.24 | deg C | | | | July 25 |

## 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 | 19.62 | ML | 150 | July 25 |
| Monthly Discharge from Ash Dam | 124.28 | ML | - | July 25 |

## 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 | 0.030 | mg/L | - | 8/07/25 |
| Ammonia | 3.37 | mg/L | - | 8/07/25 |
| Arsenic III | 0.0036 | mg/L | - | 8/07/25 |
| Arsenic V | 0.0010 | mg/L | - | 8/07/25 |
| Cadmium | <0.00005 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 8/07/25 |
| Copper | <0.0005 | mg/L | - | 8/07/25 |
| Iron | 5.99 | mg/L | - | 8/07/25 |
| Lead | <0.0001 | mg/L | - | 8/07/25 |
| Manganese | 0.815 | mg/L | - | 8/07/25 |
| Nickel | 0.0029 | mg/L | - | 8/07/25 |
| Nitrite and Nitrate as N | 0.112 | mg/L | - | 8/07/25 |
| Nitrogen | 3.17 | mg/L | - | 8/07/25 |
| pH | 6.83 | pH units | 6-9.5 | 8/07/25 |
| Phosphorus as P | 0.399 | mg/L | - | 8/07/25 |
| Reactive Phosphorus as P | 0.038 | mg/L | - | 8/07/25 |
| Selenium | 0.0003 | mg/L | - | 8/07/25 |
| Total Kjeldahl Nitrogen | 3.06 | mg/L | - | 8/07/25 |
| Total Suspended Solids | 25 | mg/L | 50 | 8/07/25 |
| Vanadium | 0.0005 | mg/L | - | 8/07/25 |
| Zinc | 0.004 | mg/L | - | 8/07/25 |

**MR217**

*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 | 0.332 | mg/L | - | 8/07/25 |
| Ammonia | 0.020 | mg/L | - | 8/07/25 |
| Arsenic III | <0.0005 | mg/L | - | 8/07/25 |
| Arsenic V | <0.0005 | mg/L | - | 8/07/25 |
| Cadmium | <0.00005 | mg/L | - | 8/07/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 8/07/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 8/07/25 |
| Copper | 0.0008 | mg/L | - | 8/07/25 |
| Iron | 0.647 | mg/L | - | 8/07/25 |
| Lead | 0.0001 | mg/L | - | 8/07/25 |
| Manganese | 0.0740 | mg/L | - | 8/07/25 |
| Nickel | 0.0016 | mg/L | - | 8/07/25 |
| Nitrite and Nitrate as N | 0.028 | mg/L | - | 8/07/25 |
| Nitrogen | 0.29 | mg/L | - | 8/07/25 |
| pH | 6.89 | pH units | 6-9.5 | 8/07/25 |
| Phosphorus as P | 0.024 | mg/L | - | 8/07/25 |
| Reactive Phosphorus as P | 0.004 | mg/L | - | 8/07/25 |
| Selenium | 0.0009 | mg/L | - | 8/07/25 |
| Total Kjeldahl Nitrogen | 0.26 | mg/L | - | 8/07/25 |
| Total Suspended Solids | 8 | mg/L | 50 | 8/07/25 |
| Vanadium | 0.0017 | mg/L | - | 8/07/25 |
| Zinc | 0.004 | mg/L | - | 8/07/25 |

**Groundwater Monitoring**
**Groundwater Well – MW01**

*EPA Identification no. 32 – Groundwater Monitoring Well 01*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.177 | mg/L | - | 13/06/25 |
| Ammonia | 0.03 | mg/L | - | 13/06/25 |
| Arsenic (III) | <0.0005 | mg/L | - | 13/06/25 |
| Arsenic (V) | 0.0007 | mg/L | - | 13/06/25 |
| Cadmium | <0.00005 | mg/L | - | 13/06/25 |
| Calcium | 2 | mg/L | - | 13/06/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 13/06/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 13/06/25 |
| Copper | <0.0005 | mg/L | - | 13/06/25 |
| Electrical Conductivity | 448 | uS/cm | - | 13/06/25 |
| Iron | 0.904 | mg/L | - | 13/06/25 |
| Lead | 0.0008 | mg/L | - | 13/06/25 |
| Magnesium | 5 | mg/L | - | 13/06/25 |
| Manganese | 0.125 | mg/L | - | 13/06/25 |
| Nickel | 0.0053 | mg/L | - | 13/06/25 |
| pH | 5.16 | pH units | - | 13/06/25 |
| Potassium | 4 | mg/L | - | 13/06/25 |
| Selenium | <0.0002 | mg/L | - | 13/06/25 |
| Sodium | 68 | mg/L | - | 13/06/25 |
| Standing Water Level | 6.09 | m | - | 13/06/25 |
| Vanadium | 0.0005 | mg/L | - | 13/06/25 |
| Zinc | 0.025 | mg/L | - | 13/06/25 |

**Groundwater Monitoring**
**Groundwater Well – MW02**

*EPA Identification no. 33 – Groundwater Monitoring Well 02*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.264 | mg/L | - | 12/06/25 |
| Ammonia | 4.86 | mg/L | - | 12/06/25 |
| Arsenic (III) | 0.0006 | mg/L | - | 12/06/25 |
| Arsenic (V) | 0.0009 | mg/L | - | 12/06/25 |
| Cadmium | 0.00012 | mg/L | - | 12/06/25 |
| Calcium | 263 | mg/L | - | 12/06/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 12/06/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 12/06/25 |
| Copper | 0.0011 | mg/L | - | 12/06/25 |
| Electrical Conductivity | 17100 | uS/cm | - | 12/06/25 |
| Iron | 8.910 | mg/L | - | 12/06/25 |
| Lead | 0.002 | mg/L | - | 12/06/25 |
| Magnesium | 302 | mg/L | - | 12/06/25 |
| Manganese | 0.649 | mg/L | - | 12/06/25 |
| Nickel | 0.0008 | mg/L | - | 12/06/25 |
| pH | 6.80 | pH units | - | 12/06/25 |
| Potassium | 132 | mg/L | - | 12/06/25 |
| Selenium | 0.0007 | mg/L | - | 12/06/25 |
| Sodium | 3560 | mg/L | - | 12/06/25 |
| Standing Water Level | 5.24 | m | - | 12/06/25 |
| Vanadium | 0.0028 | mg/L | - | 12/06/25 |
| Zinc | 0.039 | mg/L | - | 12/06/25 |

**Groundwater Monitoring**
**Groundwater Well – MW06**

*EPA Identification no. 34 – Groundwater Monitoring Well 06*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.014 | mg/L | - | 10/06/25 |
| Ammonia | 3.67 | mg/L | - | 10/06/25 |
| Arsenic (III) | 0.008 | mg/L | - | 10/06/25 |
| Arsenic (V) | 0.008 | mg/L | - | 10/06/25 |
| Cadmium | <0.00005 | mg/L | - | 10/06/25 |
| Calcium | 459 | mg/L | - | 10/06/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 10/06/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 10/06/25 |
| Copper | <0.0005 | mg/L | - | 10/06/25 |
| Electrical Conductivity | 20100 | uS/cm | - | 10/06/25 |
| Iron | 11.90 | mg/L | - | 10/06/25 |
| Lead | 0.0003 | mg/L | - | 10/06/25 |
| Magnesium | 248 | mg/L | - | 10/06/25 |
| Manganese | 0.405 | mg/L | - | 10/06/25 |
| Nickel | 0.0033 | mg/L | - | 10/06/25 |
| pH | 6.63 | pH units | - | 10/06/25 |
| Potassium | 118 | mg/L | - | 10/06/25 |
| Selenium | 0.0006 | mg/L | - | 10/06/25 |
| Sodium | 3320 | mg/L | - | 10/06/25 |
| Standing Water Level | 1.84 | m | - | 10/06/25 |
| Vanadium | 0.001 | mg/L | - | 10/06/25 |
| Zinc | 0.012 | mg/L | - | 10/06/25 |

**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 | | 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 | | m | - | |
| Vanadium | | mg/L | - | |
| Zinc | | mg/L | - | |

**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 | |