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

# Environmental Monitoring Data April 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 1A Boiler Continuous Emission Monitoring Summary

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

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 01/04/2025 | 385.53 | 423.91 | 354.59 | 720.86 | 877.05 | 571.64 |
| 02/04/2025 | 451.65 | 538.15 | 378.42 | 810.28 | 937.58 | 581.29 |
| 03/04/2025 | 445.39 | 504.31 | 378.80 | 852.24 | 1000.94 | 652.24 |
| 04/04/2025 | 412.88 | 529.62 | 339.76 | 823.81 | 939.74 | 734.95 |
| 05/04/2025 | 476.09 | 568.55 | 394.71 | 799.06 | 865.23 | 610.16 |
| 06/04/2025 | 500.64 | 553.90 | 423.27 | 838.49 | 934.51 | 756.37 |
| 07/04/2025 | 552.40 | 660.14 | 445.14 | 786.13 | 839.66 | 723.31 |
| 08/04/2025 | 508.68 | 615.31 | 415.85 | 777.07 | 908.46 | 564.81 |
| 09/04/2025 | 514.24 | 581.00 | 397.08 | 828.33 | 925.00 | 636.38 |
| 10/04/2025 | 488.44 | 554.60 | 420.92 | 809.30 | 912.95 | 671.83 |
| 11/04/2025 | 468.73 | 554.70 | 392.77 | 788.98 | 933.52 | 658.02 |
| 12/04/2025 | 593.49 | 792.33 | 441.25 | 736.96 | 830.26 | 632.11 |
| 13/04/2025 | 483.48 | 541.59 | 403.30 | 725.12 | 879.03 | 639.32 |
| 14/04/2025 | 490.56 | 585.45 | 354.64 | 775.39 | 840.31 | 654.60 |
| 15/04/2025 | 425.04 | 536.20 | 349.03 | 688.64 | 872.71 | 567.68 |
| 16/04/2025 | 468.75 | 584.13 | 366.76 | 655.63 | 833.75 | 533.97 |
| 17/04/2025 | 415.81 | 516.80 | 306.85 | 613.55 | 698.07 | 553.92 |
| 18/04/2025 | 467.15 | 535.25 | 377.55 | 761.19 | 868.38 | 550.20 |
| 19/04/2025 | 430.03 | 492.89 | 379.01 | 752.94 | 860.20 | 645.93 |
| 20/04/2025 | 436.86 | 521.28 | 321.14 | 720.10 | 816.87 | 667.73 |
| 21/04/2025 | 407.10 | 514.50 | 322.24 | 647.95 | 685.49 | 608.54 |
| 22/04/2025 | 447.28 | 536.78 | 362.01 | 614.54 | 775.01 | 502.79 |
| 23/04/2025 | 443.64 | 508.07 | 346.94 | 668.36 | 736.88 | 456.26 |
| 24/04/2025 | 409.10 | 489.44 | 325.41 | 713.74 | 811.64 | 648.81 |
| 25/04/2025 | 383.06 | 425.54 | 334.65 | 652.72 | 743.70 | 562.62 |
| 26/04/2025 | 373.16 | 405.00 | 337.36 | 682.50 | 782.68 | 558.07 |
| 27/04/2025 | 351.22 | 390.29 | 305.13 | 510.74 | 666.62 | 355.50 |
| 28/04/2025 | 369.73 | 434.11 | 327.79 | 588.07 | 712.30 | 466.48 |
| 29/04/2025 | 377.35 | 412.61 | 323.65 | 604.59 | 684.26 | 442.48 |
| 30/04/2025 | 372.54 | 416.07 | 305.79 | 613.22 | 773.81 | 511.64 |

## Unit 1B Boiler Continuous Emission Monitoring Summary

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

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm³ (7% $O_2$) | | | mg/Nm³ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 343.64 | 389.31 | 311.06 | 786.19 | 817.48 | 739.17 |
| 2/04/2025 | 381.12 | 413.55 | 345.23 | 799.50 | 822.85 | 751.09 |
| 3/04/2025 | 389.49 | 422.98 | 348.67 | 792.58 | 840.38 | 729.61 |
| 4/04/2025 | 363.87 | 523.87 | 296.76 | 817.63 | 838.58 | 779.42 |
| 5/04/2025 | 436.83 | 548.14 | 377.39 | 755.91 | 801.45 | 695.60 |
| 6/04/2025 | 475.98 | 518.05 | 424.72 | 788.83 | 813.24 | 761.52 |
| 7/04/2025 | 540.08 | 661.09 | 447.74 | 743.88 | 787.71 | 703.46 |
| 8/04/2025 | 499.30 | 613.28 | 403.56 | 788.24 | 813.99 | 730.84 |
| 9/04/2025 | 491.52 | 550.67 | 394.38 | 772.24 | 799.80 | 736.24 |
| 10/04/2025 | 455.76 | 493.36 | 406.93 | 792.01 | 811.96 | 746.15 |
| 11/04/2025 | 456.83 | 541.50 | 391.00 | 746.21 | 809.38 | 696.36 |
| 12/04/2025 | 514.72 | 705.73 | 373.12 | 708.01 | 782.67 | 665.22 |
| 13/04/2025 | 473.08 | 548.91 | 399.91 | 695.56 | 717.67 | 677.87 |
| 14/04/2025 | 468.06 | 555.74 | 349.98 | 735.30 | 764.89 | 701.30 |
| 15/04/2025 | 378.74 | 462.44 | 310.44 | 705.27 | 756.69 | 672.77 |
| 16/04/2025 | 410.99 | 529.62 | 318.41 | 648.18 | 702.02 | 624.17 |
| 17/04/2025 | 355.51 | 439.06 | 282.21 | 619.74 | 649.74 | 594.11 |
| 18/04/2025 | 408.73 | 499.76 | 331.56 | 703.31 | 742.49 | 647.79 |
| 19/04/2025 | 396.33 | 497.61 | 355.27 | 703.26 | 754.88 | 655.44 |
| 20/04/2025 | 416.11 | 486.59 | 313.41 | 669.81 | 706.53 | 625.94 |
| 21/04/2025 | 366.54 | 464.89 | 314.05 | 609.41 | 651.97 | 557.72 |
| 22/04/2025 | 396.96 | 481.93 | 320.09 | 641.94 | 683.86 | 609.05 |
| 23/04/2025 | 400.58 | 462.01 | 314.54 | 654.73 | 703.84 | 621.48 |
| 24/04/2025 | 356.98 | 437.61 | 279.36 | 685.15 | 737.53 | 632.37 |
| 25/04/2025 | 344.07 | 377.81 | 312.63 | 643.85 | 711.43 | 620.60 |
| 26/04/2025 | 333.78 | 370.73 | 286.06 | 671.96 | 717.36 | 622.93 |
| 27/04/2025 | 316.64 | 341.26 | 295.43 | 609.34 | 660.01 | 574.10 |
| 28/04/2025 | 326.13 | 369.43 | 292.29 | 641.16 | 689.95 | 591.25 |
| 29/04/2025 | 320.92 | 357.91 | 274.82 | 669.15 | 717.38 | 609.50 |
| 30/04/2025 | 318.34 | 363.30 | 266.75 | 726.23 | 793.68 | 697.67 |

## *Unit 2A Boiler Continuous Emission Monitoring Summary*

*EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air*
*Unit 2A Data*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 410.85 | 502.33 | 341.34 | 647.38 | 721.90 | 594.17 |
| 2/04/2025 | 430.58 | 509.05 | 366.33 | 673.69 | 713.00 | 618.04 |
| 3/04/2025 | 470.35 | 550.91 | 378.55 | 689.48 | 729.23 | 662.20 |
| 4/04/2025 | 400.37 | 506.15 | 285.17 | 702.34 | 752.56 | 682.00 |
| 5/04/2025 | 412.13 | 487.03 | 341.80 | 647.17 | 709.63 | 589.60 |
| 6/04/2025 | 448.80 | 508.80 | 332.48 | 653.65 | 684.53 | 615.00 |
| 7/04/2025 | 494.43 | 575.05 | 426.90 | 625.49 | 670.53 | 572.28 |
| 8/04/2025 | 462.11 | 596.54 | 382.73 | 683.25 | 720.16 | 636.34 |
| 9/04/2025 | 403.21 | 551.53 | 280.27 | 565.43 | 729.70 | 469.51 |
| 10/04/2025 | 376.21 | 442.54 | 297.42 | 615.18 | 686.53 | 493.60 |
| 11/04/2025 | 422.67 | 476.48 | 364.50 | 619.36 | 711.44 | 576.73 |
| 12/04/2025 | 465.73 | 521.52 | 368.43 | 606.31 | 682.29 | 558.10 |
| 13/04/2025 | 391.24 | 473.64 | 287.82 | 562.19 | 593.56 | 531.42 |
| 14/04/2025 | 395.67 | 460.14 | 291.84 | 614.56 | 665.56 | 580.38 |
| 15/04/2025 | 356.86 | 441.67 | 247.26 | 607.37 | 663.23 | 569.79 |
| 16/04/2025 | 411.15 | 487.57 | 345.98 | 539.09 | 584.10 | 500.66 |
| 17/04/2025 | 378.66 | 537.62 | 245.99 | 497.97 | 526.76 | 456.17 |
| 18/04/2025 | 390.57 | 499.57 | 282.97 | 573.74 | 620.94 | 513.96 |
| 19/04/2025 | 367.00 | 472.47 | 273.97 | 592.99 | 642.31 | 534.56 |
| 20/04/2025 | 348.03 | 453.43 | 270.12 | 547.17 | 579.73 | 511.15 |
| 21/04/2025 | 356.76 | 426.53 | 262.70 | 531.89 | 577.69 | 498.76 |
| 22/04/2025 | 379.88 | 517.96 | 238.85 | 505.68 | 573.53 | 426.02 |
| 23/04/2025 | 405.56 | 483.21 | 284.09 | 541.94 | 580.43 | 504.20 |
| 24/04/2025 | 350.68 | 422.46 | 249.81 | 562.54 | 620.20 | 508.69 |
| 25/04/2025 | 360.60 | 449.65 | 270.55 | 545.41 | 579.80 | 508.45 |
| 26/04/2025 | 398.18 | 496.57 | 302.07 | 563.16 | 609.49 | 519.66 |
| 27/04/2025 | 354.26 | 418.23 | 241.32 | 453.66 | 534.12 | 313.39 |
| 28/04/2025 | 375.22 | 457.47 | 264.12 | 490.35 | 564.00 | 400.35 |
| 29/04/2025 | 406.95 | 482.29 | 288.68 | 547.86 | 583.91 | 509.60 |
| 30/04/2025 | 371.89 | 421.38 | 343.60 | 543.03 | 652.54 | 451.69 |

## Unit 2B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air*
*Unit 2B data invalidated 3 - 11 April 2025*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 444.19 | 527.06 | 389.17 | 714.60 | 758.36 | 664.32 |
| 2/04/2025 | 382.99 | 507.98 | 98.34 | 607.44 | 762.75 | 182.60 |
| 3/04/2025 | - | - | - | - | - | - |
| 4/04/2025 | - | - | - | - | - | - |
| 5/04/2025 | - | - | - | - | - | - |
| 6/04/2025 | - | - | - | - | - | - |
| 7/04/2025 | - | - | - | - | - | - |
| 8/04/2025 | - | - | - | - | - | - |
| 9/04/2025 | - | - | - | - | - | - |
| 10/04/2025 | - | - | - | - | - | - |
| 11/04/2025 | - | - | - | - | - | - |
| 12/04/2025 | 533.62 | 648.37 | 390.81 | 707.66 | 802.31 | 666.27 |
| 13/04/2025 | 488.05 | 561.96 | 361.41 | 661.25 | 700.39 | 625.68 |
| 14/04/2025 | 469.44 | 541.37 | 361.51 | 716.47 | 774.41 | 666.69 |
| 15/04/2025 | 422.78 | 518.37 | 298.70 | 719.55 | 772.44 | 694.62 |
| 16/04/2025 | 461.35 | 543.54 | 402.94 | 644.58 | 698.16 | 586.21 |
| 17/04/2025 | 443.58 | 584.85 | 316.80 | 596.62 | 651.34 | 528.00 |
| 18/04/2025 | 458.90 | 559.57 | 353.56 | 692.23 | 763.05 | 620.94 |
| 19/04/2025 | 442.13 | 540.02 | 322.63 | 713.22 | 759.85 | 643.48 |
| 20/04/2025 | 409.95 | 514.91 | 331.66 | 662.07 | 686.27 | 624.49 |
| 21/04/2025 | 419.57 | 493.31 | 318.38 | 633.97 | 682.05 | 596.03 |
| 22/04/2025 | 454.50 | 619.34 | 308.33 | 610.07 | 636.46 | 572.13 |
| 23/04/2025 | 487.14 | 612.77 | 348.15 | 647.15 | 682.43 | 595.17 |
| 24/04/2025 | 393.33 | 466.72 | 296.35 | 663.78 | 721.30 | 623.59 |
| 25/04/2025 | 415.83 | 472.56 | 319.10 | 647.22 | 683.38 | 618.53 |
| 26/04/2025 | 436.32 | 536.89 | 366.11 | 662.20 | 719.65 | 613.56 |
| 27/04/2025 | 407.42 | 460.77 | 282.71 | 583.22 | 627.15 | 508.12 |
| 28/04/2025 | 420.58 | 499.01 | 322.61 | 613.13 | 668.45 | 561.63 |
| 29/04/2025 | 461.03 | 526.79 | 329.12 | 666.62 | 719.32 | 636.84 |
| 30/04/2025 | 436.53 | 538.60 | 364.53 | 715.72 | 749.40 | 588.30 |

## Unit 3A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air*
*Unit 3A data invalidated 3 & 5-7 April 2025*
*NOx Data Invalidated 10, 14, 15, 18 & 22 April 2025*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 363.35 | 389.51 | 330.17 | 763.20 | 792.64 | 723.75 |
| 2/04/2025 | 375.16 | 398.26 | 357.73 | 776.41 | 795.83 | 741.61 |
| 3/04/2025 | - | - | - | - | - | - |
| 4/04/2025 | 341.72 | 382.43 | 310.23 | 798.37 | 818.08 | 773.30 |
| 5/04/2025 | - | - | - | - | - | - |
| 6/04/2025 | - | - | - | - | - | - |
| 7/04/2025 | - | - | - | - | - | - |
| 8/04/2025 | 388.23 | 479.10 | 338.03 | 772.68 | 797.23 | 720.67 |
| 9/04/2025 | 392.49 | 443.13 | 291.94 | 755.30 | 773.19 | 730.80 |
| 10/04/2025 | - | - | - | 767.48 | 781.44 | 738.34 |
| 11/04/2025 | 360.36 | 422.14 | 291.71 | 738.04 | 781.23 | 693.56 |
| 12/04/2025 | 359.28 | 431.50 | 264.26 | 678.88 | 711.73 | 645.97 |
| 13/04/2025 | 318.56 | 360.97 | 272.51 | 646.57 | 673.63 | 619.52 |
| 14/04/2025 | - | - | - | 715.21 | 755.10 | 657.55 |
| 15/04/2025 | - | - | - | 687.61 | 721.47 | 662.58 |
| 16/04/2025 | 315.55 | 362.96 | 247.82 | 618.66 | 674.24 | 569.42 |
| 17/04/2025 | 300.95 | 426.63 | 235.98 | 581.02 | 616.61 | 543.03 |
| 18/04/2025 | - | - | - | 674.68 | 711.59 | 621.87 |
| 19/04/2025 | 338.59 | 400.36 | 293.13 | 691.41 | 733.12 | 626.12 |
| 20/04/2025 | 314.97 | 372.13 | 261.15 | 620.85 | 680.58 | 569.88 |
| 21/04/2025 | 329.52 | 392.29 | 283.61 | 594.50 | 611.85 | 574.83 |
| 22/04/2025 | - | - | - | 617.87 | 648.16 | 600.37 |
| 23/04/2025 | 351.75 | 423.33 | 271.79 | 646.54 | 686.12 | 615.54 |
| 24/04/2025 | 343.70 | 410.72 | 269.15 | 674.18 | 742.45 | 624.15 |
| 25/04/2025 | 332.84 | 419.11 | 284.04 | 636.34 | 677.39 | 617.63 |
| 26/04/2025 | 361.49 | 448.82 | 302.24 | 666.30 | 716.29 | 615.73 |
| 27/04/2025 | 349.82 | 436.82 | 242.55 | 629.90 | 690.65 | 575.92 |
| 28/04/2025 | 302.93 | 383.97 | 257.90 | 653.83 | 672.74 | 624.15 |
| 29/04/2025 | 329.66 | 359.31 | 278.96 | 660.98 | 697.31 | 632.85 |
| 30/04/2025 | 311.32 | 353.60 | 258.34 | 694.88 | 736.89 | 672.23 |

## Unit 3B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air*
*Unit 3B data invalidated 3-8, 28 & 30 April 2025*
*$SO_2$ data invalidated 29 April 2025*
*NOx data invalidated 9, 20 & 22 April 2025*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 332.85 | 382.78 | 297.09 | 683.83 | 744.73 | 621.83 |
| 2/04/2025 | 352.46 | 387.42 | 325.71 | 689.02 | 758.31 | 634.82 |
| 3/04/2025 | - | - | - | - | - | - |
| 4/04/2025 | - | - | - | - | - | - |
| 5/04/2025 | - | - | - | - | - | - |
| 6/04/2025 | - | - | - | - | - | - |
| 7/04/2025 | - | - | - | - | - | - |
| 8/04/2025 | - | - | - | - | - | - |
| 9/04/2025 | - | - | - | 684.32 | 746.58 | 642.92 |
| 10/04/2025 | 370.02 | 429.55 | 293.48 | 684.60 | 743.74 | 654.78 |
| 11/04/2025 | 361.36 | 409.09 | 311.03 | 649.77 | 715.42 | 605.19 |
| 12/04/2025 | 361.17 | 421.40 | 283.04 | 610.77 | 660.79 | 570.90 |
| 13/04/2025 | 315.35 | 368.88 | 277.59 | 587.10 | 630.65 | 549.71 |
| 14/04/2025 | 332.82 | 382.73 | 300.33 | 633.03 | 710.91 | 580.56 |
| 15/04/2025 | 315.04 | 367.45 | 269.37 | 609.79 | 689.31 | 563.02 |
| 16/04/2025 | 313.84 | 373.11 | 265.72 | 554.41 | 611.85 | 510.95 |
| 17/04/2025 | 295.61 | 423.53 | 234.77 | 519.81 | 567.75 | 489.64 |
| 18/04/2025 | 395.04 | 449.14 | 316.17 | 615.26 | 713.28 | 545.87 |
| 19/04/2025 | 336.82 | 360.90 | 302.42 | 625.86 | 707.90 | 583.28 |
| 20/04/2025 | - | - | - | 560.90 | 622.29 | 499.71 |
| 21/04/2025 | 331.40 | 382.63 | 274.50 | 536.42 | 574.14 | 503.25 |
| 22/04/2025 | - | - | - | 558.60 | 621.69 | 513.05 |
| 23/04/2025 | 338.84 | 406.02 | 277.25 | 586.59 | 664.07 | 541.61 |
| 24/04/2025 | 334.91 | 399.66 | 272.68 | 612.87 | 691.14 | 555.63 |
| 25/04/2025 | 325.78 | 396.41 | 280.86 | 583.32 | 618.37 | 542.61 |
| 26/04/2025 | 357.64 | 429.75 | 304.40 | 602.18 | 688.13 | 544.21 |
| 27/04/2025 | 353.41 | 419.84 | 259.22 | 585.42 | 667.19 | 513.95 |
| 28/04/2025 | - | - | - | - | - | - |
| 29/04/2025 | 328.20 | 366.09 | 294.73 | - | - | - |
| 30/04/2025 | - | - | - | - | - | - |

## Unit 4A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air*
*Unit 4A data invalidated 3 April 2025*

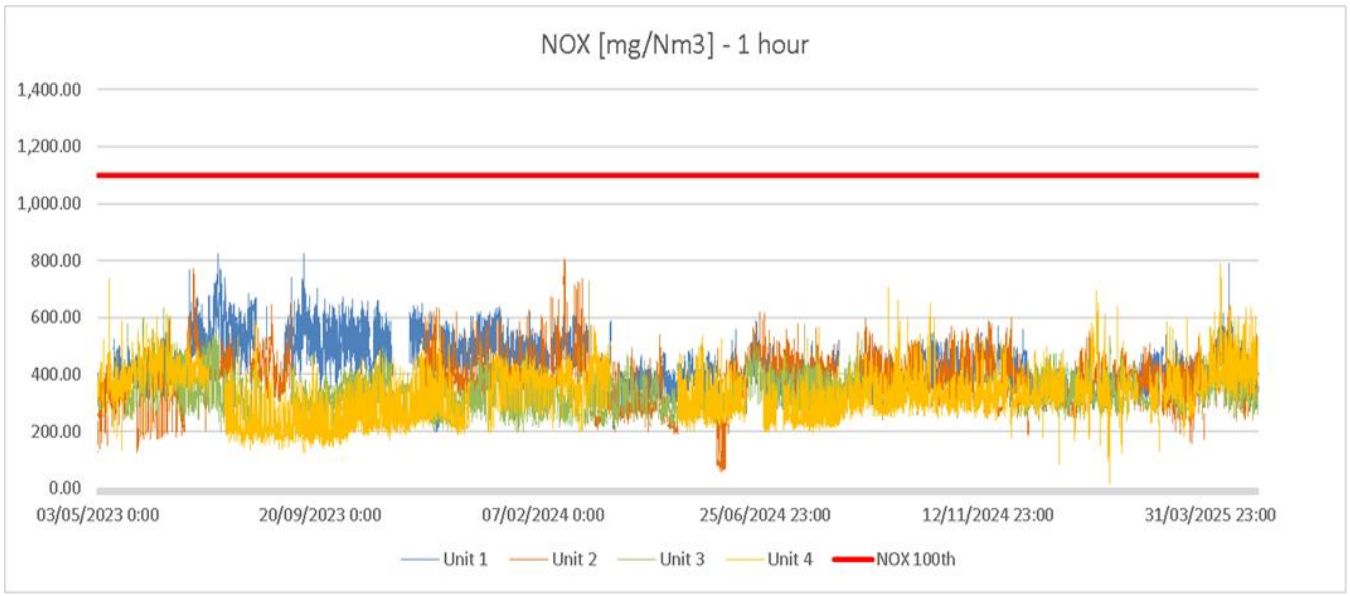
| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 439.81 | 552.48 | 352.31 | 630.72 | 714.67 | 561.04 |
| 2/04/2025 | 410.78 | 531.49 | 352.23 | 597.01 | 718.99 | 486.28 |
| 3/04/2025 | - | - | - | - | - | - |
| 4/04/2025 | 402.31 | 494.19 | 334.39 | 634.57 | 743.98 | 548.34 |
| 5/04/2025 | 420.21 | 536.27 | 339.17 | 615.48 | 710.87 | 536.85 |
| 6/04/2025 | 435.60 | 612.98 | 343.29 | 610.52 | 739.94 | 539.71 |
| 7/04/2025 | 517.66 | 762.76 | 380.23 | 606.57 | 697.83 | 521.96 |
| 8/04/2025 | 428.14 | 553.64 | 365.95 | 588.65 | 703.41 | 519.17 |
| 9/04/2025 | 410.68 | 544.73 | 347.93 | 564.83 | 646.04 | 509.11 |
| 10/04/2025 | 403.28 | 570.32 | 359.32 | 596.93 | 751.10 | 516.33 |
| 11/04/2025 | 415.47 | 530.06 | 323.66 | 571.99 | 698.47 | 488.06 |
| 12/04/2025 | 444.39 | 624.63 | 324.09 | 557.65 | 674.23 | 493.10 |
| 13/04/2025 | 474.14 | 643.94 | 323.20 | 549.12 | 641.45 | 472.82 |
| 14/04/2025 | 403.65 | 543.65 | 341.83 | 577.57 | 672.99 | 470.97 |
| 15/04/2025 | 376.85 | 512.16 | 297.40 | 555.13 | 672.87 | 468.85 |
| 16/04/2025 | 417.08 | 591.62 | 316.18 | 492.62 | 593.71 | 438.92 |
| 17/04/2025 | 408.99 | 496.92 | 306.29 | 449.43 | 513.75 | 413.19 |
| 18/04/2025 | 470.55 | 604.32 | 374.92 | 537.45 | 627.48 | 438.46 |
| 19/04/2025 | 419.82 | 526.88 | 314.09 | 564.12 | 714.34 | 457.44 |
| 20/04/2025 | 409.64 | 483.91 | 323.30 | 521.59 | 605.44 | 445.12 |
| 21/04/2025 | 450.14 | 578.28 | 361.59 | 498.52 | 575.80 | 424.46 |
| 22/04/2025 | 432.17 | 573.25 | 333.52 | 469.54 | 598.22 | 375.22 |
| 23/04/2025 | 464.10 | 636.44 | 356.38 | 496.97 | 574.00 | 430.44 |
| 24/04/2025 | 379.39 | 488.10 | 284.65 | 503.81 | 610.42 | 435.59 |
| 25/04/2025 | 433.25 | 569.63 | 323.91 | 496.16 | 549.14 | 449.50 |
| 26/04/2025 | 405.72 | 564.83 | 320.64 | 503.42 | 599.32 | 441.38 |
| 27/04/2025 | 446.54 | 602.67 | 299.49 | 455.89 | 578.15 | 306.87 |
| 28/04/2025 | 383.23 | 531.92 | 304.93 | 482.47 | 557.67 | 391.08 |
| 29/04/2025 | 444.88 | 605.80 | 365.32 | 515.76 | 590.68 | 457.19 |
| 30/04/2025 | 420.98 | 532.44 | 346.52 | 512.41 | 638.25 | 451.54 |

## Unit 4B Boiler Continuous Emission Monitoring Summary

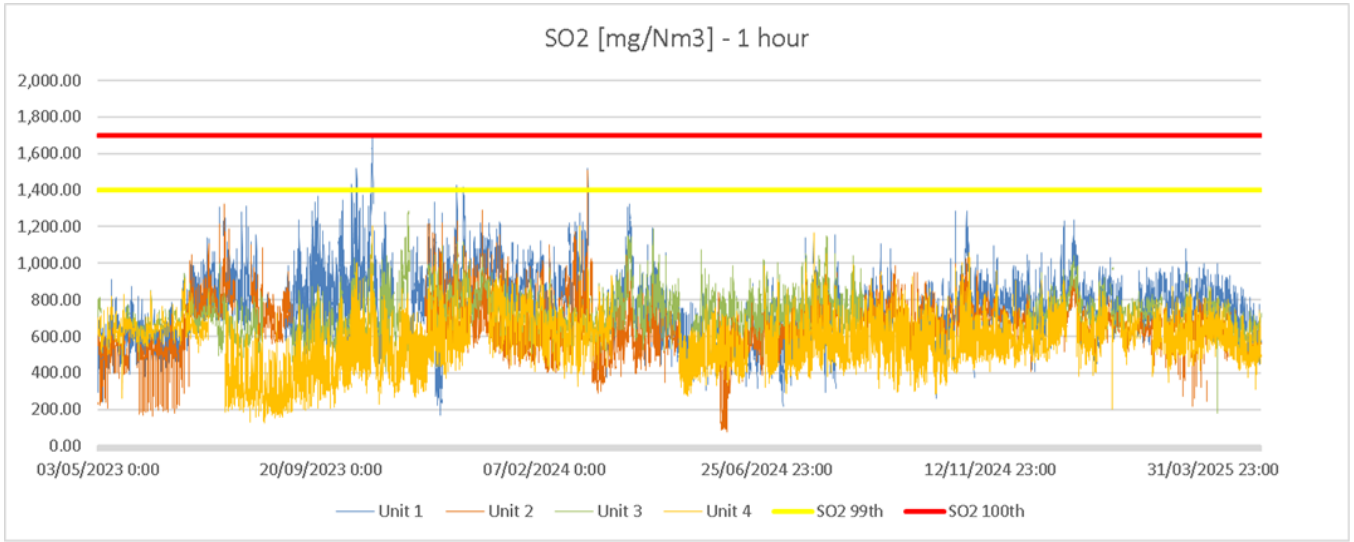
*EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air*
*Unit 4B data invalidated 3 & 4 April 2025*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1/04/2025 | 476.46 | 579.39 | 415.23 | 737.62 | 790.49 | 688.24 |
| 2/04/2025 | 474.23 | 562.57 | 435.83 | 716.51 | 804.99 | 672.21 |
| 3/04/2025 | - | - | - | - | - | - |
| 4/04/2025 | 457.09 | 535.83 | 381.53 | 760.69 | 818.70 | 686.17 |
| 5/04/2025 | - | - | - | - | - | - |
| 6/04/2025 | 495.52 | 655.63 | 405.84 | 724.31 | 808.57 | 528.56 |
| 7/04/2025 | 562.44 | 790.57 | 428.63 | 728.64 | 783.90 | 670.51 |
| 8/04/2025 | 493.15 | 583.65 | 422.60 | 757.13 | 822.56 | 675.06 |
| 9/04/2025 | 468.49 | 583.22 | 391.21 | 704.77 | 757.89 | 672.71 |
| 10/04/2025 | 479.15 | 511.54 | 427.08 | 731.97 | 805.54 | 675.60 |
| 11/04/2025 | 507.29 | 567.24 | 432.94 | 684.10 | 784.40 | 610.95 |
| 12/04/2025 | 527.33 | 629.97 | 406.16 | 682.12 | 761.12 | 615.44 |
| 13/04/2025 | 546.47 | 733.61 | 418.77 | 686.03 | 747.41 | 604.91 |
| 14/04/2025 | 488.55 | 563.43 | 405.32 | 699.52 | 751.78 | 642.29 |
| 15/04/2025 | 456.76 | 547.04 | 409.50 | 687.79 | 764.82 | 608.32 |
| 16/04/2025 | 494.21 | 611.23 | 391.60 | 614.21 | 677.35 | 551.60 |
| 17/04/2025 | 467.95 | 580.92 | 362.23 | 565.14 | 627.75 | 530.42 |
| 18/04/2025 | 524.86 | 632.77 | 424.16 | 658.66 | 743.34 | 570.05 |
| 19/04/2025 | 466.80 | 529.92 | 319.77 | 673.54 | 787.63 | 603.65 |
| 20/04/2025 | 455.62 | 507.32 | 338.82 | 614.24 | 675.16 | 576.05 |
| 21/04/2025 | 494.53 | 601.11 | 402.72 | 587.39 | 634.49 | 530.34 |
| 22/04/2025 | 473.33 | 559.85 | 374.57 | 605.72 | 674.76 | 534.15 |
| 23/04/2025 | 526.35 | 671.41 | 434.93 | 616.23 | 664.49 | 559.77 |
| 24/04/2025 | 443.80 | 499.91 | 366.02 | 619.99 | 697.49 | 562.22 |
| 25/04/2025 | 495.57 | 583.50 | 419.72 | 616.50 | 654.30 | 568.37 |
| 26/04/2025 | 488.87 | 636.63 | 401.99 | 630.78 | 706.12 | 563.07 |
| 27/04/2025 | 500.53 | 654.73 | 377.66 | 611.66 | 691.00 | 406.48 |
| 28/04/2025 | 455.93 | 553.35 | 370.12 | 631.20 | 654.70 | 589.35 |
| 29/04/2025 | 482.00 | 614.31 | 379.53 | 655.16 | 700.34 | 611.11 |
| 30/04/2025 | 456.69 | 550.36 | 403.30 | 682.84 | 724.98 | 614.60 |

## 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 | 4.4 | mg/m$^3$ | 50 | 26/02/2025 |
| 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 | - | 26/02/2025 |
| Moisture | 6 monthly | 5.2 | % | - | 26/02/2025 |
| Oxygen | 6 monthly | 9.2 | % | - | 26/02/2025 |
| Solid Particles | Quarterly | 2.6 | mg/m$^3$ | - | 26/02/2025 |
| Temperature | 6 monthly | 120 | Deg C | - | 26/02/2025 |
| Carbon dioxide | 6 monthly | 10.5 | % | - | 26/02/2025 |
| Chlorine | 6 monthly | 0.05 | mg/m$^3$ | - | 10/12/2024 |
| Fluorine | 6 monthly | 8 | mg/m$^3$ | - | 10/12/2024 |
| Hydrogen chloride | 6 monthly | 9.6 | mg/m$^3$ | - | 10/12/2024 |
| Sulfuric acid mist and sulfur trioxide (as $SO_3$) | 6 monthly | 1 | mg/m$^3$ | - | 10/12/2024 |
| Volatile organic compounds as n- | 6 monthly | <0.07 | mg/m$^3$ | - | 10/12/2024 |
| 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 | - | 26/02/2025 |
| Moisture | | 5.6 | % | - | 26/02/2025 |
| Oxygen | | 8.9 | % | - | 26/02/2025 |
| Solid Particles | Quarterly | 6.1 | mg/m$^3$ | - | 26/02/2025 |
| Temperature | | 120 | Deg C | - | 26/02/2025 |
| 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 | 6.9 | mg/m$^3$ | 50 | 27/02/2025 |
| 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 | 260 | m$^3$/sec | - | 27/02/2025 |
| Moisture | 6 monthly | 6 | % | - | 27/02/2025 |
| Oxygen | 6 monthly | 6.6 | % | - | 27/02/2025 |
| Solid Particles | Quarterly | 7.5 | mg/m$^3$ | - | 27/02/2025 |
| Temperature | 6 monthly | 127 | Deg C | - | 27/02/2025 |
| Carbon dioxide | 6 monthly | 13.1 | % | - | 27/02/2025 |
| Chlorine | 6 monthly | <0.02 | mg/m$^3$ | - | 9/01/2025 |
| Fluorine | 6 monthly | 8.5 | mg/m$^3$ | - | 9/01/2025 |
| Hydrogen chloride | 6 monthly | 6.2 | mg/m$^3$ | - | 9/01/2025 |
| Sulfuric acid mist and sulfur trioxide (as $SO_3$) | 6 monthly | 2.7 | mg/m$^3$ | - | 9/01/2025 |
| Volatile organic compounds as n- | 6 monthly | <0.1 | mg/m$^3$ | - | 9/01/2025 |
| 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 | | 290 | m$^3$/sec | - | 27/02/2025 |
| Moisture | | 6.4 | % | - | 27/02/2025 |
| Oxygen | | 6.8 | % | - | 27/02/2025 |
| Solid Particles | Quarterly | 6.9 | mg/m$^3$ | - | 27/02/2025 |
| Temperature | | 119 | Deg C | - | 27/02/2025 |
| 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 | 6.1 | $mg/m^3$ | 50 | 25/2/2025 |
| 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 | 240 | $m^3/sec$ | - | 25/02/2025 |
| Moisture | 6 monthly | 5.6 | % | - | 25/02/2025 |
| Oxygen | 6 Monthly | 8.3 | % | - | 25/02/2025 |
| Solid Particles | Quarterly | 3.6 | $mg/m^3$ | - | 25/02/2025 |
| Temperature | 6 monthly | 114 | Deg C | - | 25/02/2025 |
| Carbon dioxide | 6 monthly | 11.5 | % | - | 25/02/2025 |
| Chlorine | 6 monthly | 0.046 | $mg/m^3$ | - | 11/12/2024 |
| Fluorine | 6 monthly | 9.7 | $mg/m^3$ | - | 11/12/2024 |
| Hydrogen chloride | 6 monthly | 15 | $mg/m^3$ | - | 11/12/2024 |
| Sulfuric acid mist and sulfur trioxide (as $SO_3$) | 6 monthly | 1.2 | $mg/m^3$ | - | 11/12/2024 |
| Volatile organic compounds as n-propane equivalent | 6 monthly | <0.08 | $mg/m^3$ | - | 11/12/2024 |
| 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 | | 240 | $m^3/sec$ | - | 25/02/2025 |
| Moisture | | 5 | % | - | 25/02/2025 |
| Oxygen | | 8.3 | % | - | 25/02/2025 |
| Solid Particles | Quarterly | 8.5 | $mg/m^3$ | - | 25/02/2025 |
| Temperature | | 115 | Deg C | - | 25/02/2025 |
| 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 | 8.7 | mg/m$^3$ | 50 | 28/02/2025 |
| 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 | 350 | m$^3$/sec | - | 28/02/2025 |
| Moisture | 6 monthly | 5.3 | % | - | 28/02/2025 |
| Oxygen | 6 monthly | 8.8 | % | - | 28/02/2025 |
| Solid Particles | Quarterly | 13 | mg/m$^3$ | - | 28/02/2025 |
| Temperature | 6 monthly | 119 | Deg C | - | 28/02/2025 |
| Carbon dioxide | 6 monthly | 11.1 | % | - | 28/02/2025 |
| Chlorine | 6 monthly | <0.01 | mg/m$^3$ | - | 12-13/12/2024 |
| Fluorine | 6 monthly | 11 | mg/m$^3$ | - | 12-13/12/2024 |
| Hydrogen chloride | 6 monthly | 8.5 | mg/m$^3$ | - | 12-13/12/2024 |
| Sulfuric acid mist and sulfur trioxide (as $SO_3$) | 6 monthly | 2.1 | mg/m$^3$ | - | 12-13/12/2024 |
| Volatile organic compounds as n- | 6 monthly | 0.11 | mg/m$^3$ | - | 12-13/12/2024 |
| 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 | | 330 | m$^3$/sec | - | 28/02/2025 |
| Moisture | | 6 | % | - | 28/02/2025 |
| Oxygen | | 7.3 | % | - | 28/02/2025 |
| Solid Particles | Quarterly | 4.2 | mg/m$^3$ | - | 28/02/2025 |
| Temperature | | 126 | Deg C | - | 28/02/2025 |
| 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 |
| 20.98 | 0.5 | 23.51 | 8.18 | 32.3 | 97.7 | 6.28 | 2.25 |

| | Laboratory Analysis | | | |
|---|---|---|---|---|
| **Name** | **Reading** | **Units** | **Licence Limit** | **Date** |
| Aluminium | 0.053 | mg/L | - | 07/04/25 |
| Ammonia | <0.010 | mg/L | - | 07/04/25 |
| Arsenic III | <0.008 | mg/L | - | 07/04/25 |
| Arsenic V | <0.008 | mg/L | - | 07/04/25 |
| Cadmium | <0.0002 | mg/L | - | 07/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 07/04/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 07/04/25 |
| Copper | 0.001 | mg/L | - | 07/04/25 |
| Iron | 0.094 | mg/L | - | 07/04/25 |
| Lead | <0.0002 | mg/L | - | 07/04/25 |
| Manganese | 0.0067 | mg/L | - | 07/04/25 |
| Nickel | <0.0005 | mg/L | - | 07/04/25 |
| pH | 8.04 | pH units | - | 07/04/25 |
| Selenium | <0.002 | mg/L | - | 07/04/25 |
| Total Suspended Solids | <5 | mg/L | - | 07/04/25 |
| Vanadium | 0.0028 | mg/L | - | 07/04/25 |
| Zinc | <0.005 | mg/L | - | 07/04/25 |

## 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 |
| 20.93 | 0.5 | 23.96 | 8.20 | 32.3 | 108.1 | 6.87 | 2.75 |

| Laboratory Analysis | | | | |
|---|---|---|---|---|
| **Name** | **Reading** | **Units** | **Licence Limits** | **Date** |
| Aluminium | 0.025 | mg/L | - | 7/04/25 |
| Ammonia | <0.010 | mg/L | - | 7/04/25 |
| Arsenic III | <0.008 | mg/L | - | 7/04/25 |
| Arsenic V | <0.008 | mg/L | - | 7/04/25 |
| Cadmium | <0.0002 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 7/04/25 |
| Copper | 0.001 | mg/L | - | 7/04/25 |
| Iron | 0.039 | mg/L | - | 7/04/25 |
| Lead | <0.0002 | mg/L | - | 7/04/25 |
| Manganese | 0.0064 | mg/L | - | 7/04/25 |
| Nickel | 0.0006 | mg/L | - | 7/04/25 |
| pH | 8.09 | pH units | - | 7/04/25 |
| Selenium | <0.002 | mg/L | - | 7/04/25 |
| Total Suspended Solids | <5 | mg/L | - | 7/04/25 |
| Vanadium | 0.0029 | mg/L | - | 7/04/25 |
| Zinc | <0.005 | mg/L | - | 7/04/25 |

## 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 |
| 21.9 | 0.5 | 23.10 | 8.08 | 33.11 | 103.7 | 6.75 | 3.75 |

**Laboratory Analysis**

| Name | Reading | Units | Licence Limits | Date |
|---|---|---|---|---|
| Aluminium | 0.02 | mg/L | - | 7/04/25 |
| Ammonia | <0.010 | mg/L | - | 7/04/25 |
| Arsenic III | <0.008 | mg/L | - | 7/04/25 |
| Arsenic V | <0.008 | mg/L | - | 7/04/25 |
| Cadmium | <0.0002 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 7/04/25 |
| Copper | <0.001 | mg/L | - | 7/04/25 |
| Iron | 0.025 | mg/L | - | 7/04/25 |
| Lead | <0.0002 | mg/L | - | 7/04/25 |
| Manganese | 0.0035 | mg/L | - | 7/04/25 |
| Nickel | <0.0005 | mg/L | - | 7/04/25 |
| pH | 8.12 | pH units | - | 7/04/25 |
| Selenium | <0.002 | mg/L | - | 7/04/25 |
| Total Suspended Solids | <5 | mg/L | - | 7/04/25 |
| Vanadium | 0.0021 | mg/L | - | 7/04/25 |
| Zinc | <0.005 | mg/L | - | 7/04/25 |

*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 |
| 19.56 | 0.5 | 25.68 | 8.14 | 32.6 | 111.8 | 6.93 | 2.25 |

**Laboratory Analysis**

| **Name** | **Reading** | **Units** | **Licence Limits** | **Date** |
|---|---|---|---|---|
| Aluminium | 0.028 | mg/L | - | 7/04/25 |
| Ammonia | <0.010 | mg/L | - | 7/04/25 |
| Arsenic III | <0.008 | mg/L | - | 7/04/25 |
| Arsenic V | <0.008 | mg/L | - | 7/04/25 |
| Cadmium | <0.0002 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.001 | mg/L | - | 7/04/25 |
| Copper | 0.001 | mg/L | - | 7/04/25 |
| Iron | 0.048 | mg/L | - | 7/04/25 |
| Lead | <0.0002 | mg/L | - | 7/04/25 |
| Manganese | 0.0061 | mg/L | - | 7/04/25 |
| Nickel | 0.0008 | mg/L | - | 7/04/25 |
| pH | 8.03 | pH units | - | 7/04/25 |
| Selenium | <0.002 | mg/L | - | 7/04/25 |
| Total Suspended Solids | <5 | mg/L | - | 7/04/25 |
| Vanadium | 0.0025 | mg/L | - | 7/04/25 |
| Zinc | <0.005 | mg/L | - | 7/04/25 |

## 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 | 0.067 | mg/L | - | 7/04/25 |
| Ammonia | 0.78 | mg/L | - | 7/04/25 |
| Arsenic III | <0.0005 | mg/L | - | 7/04/25 |
| Arsenic V | 0.0093 | mg/L | - | 7/04/25 |
| Cadmium | 0.00009 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/04/25 |
| Copper | 0.0024 | mg/L | - | 7/04/25 |
| Iron | 0.050 | mg/L | - | 7/04/25 |
| Lead | <0.0001 | mg/L | - | 7/04/25 |
| Manganese | 0.0618 | mg/L | - | 7/04/25 |
| Nickel | 0.0023 | mg/L | - | 7/04/25 |
| Nitrite and Nitrate as N | 4.09 | mg/L | - | 7/04/25 |
| Nitrogen | 5.2 | mg/L | - | 7/04/25 |
| pH | 8.41 | pH units | - | 7/04/25 |
| Phosphorus as P | 0.51 | mg/L | - | 7/04/25 |
| Reactive Phosphorus as P | 0.49 | mg/L | - | 7/04/25 |
| Selenium | 0.0308 | mg/L | - | 7/04/25 |
| Total Kjeldahl Nitrogen | 1.1 | mg/L | - | 7/04/25 |
| Total Suspended Solids | 16 | mg/L | - | 7/04/25 |
| Vanadium | 0.0621 | mg/L | - | 7/04/25 |
| Zinc | 0.003 | mg/L | - | 7/04/25 |

## 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 | 0.046 | mg/L | - | 7/04/25 |
| Ammonia | <0.010 | mg/L | - | 7/04/25 |
| Arsenic III | <0.008 | mg/L | - | 7/04/25 |
| Arsenic V | <0.008 | mg/L | - | 7/04/25 |
| Cadmium | <0.0002 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/04/25 |
| Copper | 0.0010 | mg/L | - | 7/04/25 |
| Iron | 0.071 | mg/L | - | 7/04/25 |
| Lead | <0.0002 | mg/L | - | 7/04/25 |
| Manganese | 0.0055 | mg/L | - | 7/04/25 |
| Nickel | <0.0005 | mg/L | - | 7/04/25 |
| pH | 8.02 | pH units | - | 7/04/25 |
| Selenium | <0.001 | mg/L | - | 7/04/25 |
| Total Suspended Solids | 24 | mg/L | - | 7/04/25 |
| Vanadium | 0.0027 | mg/L | - | 7/04/25 |
| Zinc | <0.005 | mg/L | - | 7/04/25 |
| Dissolved Oxygen | 6.56 | mg/L | - | 7/04/25 |
| Field Temperature | 21.8 | degC | - | 7/04/25 |
| Salinity | 34.27 | ppt | - | 7/04/25 |
| Secchi Disk | 3.25 | m | - | 7/04/25 |
| Temperature – Average | 23.17 | deg C | - | April 25 |
| Temperature – Minimum | 21.85 | deg C | - | April 25 |
| Temperature - Maximum | 25.01 | deg C | - | April 25 |

## Eraring Cooling Water Outlet Canal

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

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Copper | 0.0012 | mg/L | 0.005 | 7/04/25 |
| Iron | 0.118 | mg/L | 0.3 | 7/04/25 |
| Selenium | <0.001 | mg/L | 0.002 | 7/04/25 |

## 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 | 23.17 | deg C | 35.5 | 37.5 | 38.5 | April 25 |
| Temperature – Minimum | 25.74 | deg C | | | | April 25 |
| Temperature - Maximum | 35.33 | deg C | | | | April 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 | 15.69 | ML | 150 | April 25 |
| Monthly Discharge from Ash Dam | 177.36 | ML | - | April 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 | 0.025 | mg/L | - | 7/04/25 |
| Ammonia | 3.30 | mg/L | - | 7/04/25 |
| Arsenic III | 0.0051 | mg/L | - | 7/04/25 |
| Arsenic V | 0.0014 | mg/L | - | 7/04/25 |
| Cadmium | <0.00005 | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/04/25 |
| Copper | <0.0005 | mg/L | - | 7/04/25 |
| Iron | 5.54 | mg/L | - | 7/04/25 |
| Lead | <0.0001 | mg/L | - | 7/04/25 |
| Manganese | 0.687 | mg/L | - | 7/04/25 |
| Nickel | 0.0036 | mg/L | - | 7/04/25 |
| Nitrite and Nitrate as N | 0.085 | mg/L | - | 7/04/25 |
| Nitrogen | 4.11 | mg/L | - | 7/04/25 |
| pH | 7.44 | pH units | 6-9.5 | 7/04/25 |
| Phosphorus as P | 0.519 | mg/L | - | 7/04/25 |
| Reactive Phosphorus as P | 0.008 | mg/L | - | 7/04/25 |
| Selenium | 0.0005 | mg/L | - | 7/04/25 |

| | | | | |
|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 4.02 | mg/L | - | 7/04/25 |
| Total Suspended Solids | 23 | mg/L | 50 | 7/04/25 |
| Vanadium | 0.0006 | mg/L | - | 7/04/25 |
| Zinc | 0.002 | mg/L | - | 7/04/25 |

**MR217**

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

*MR217 Did not discharge and no background sample taken due to insufficient water.*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | | mg/L | - | 7/04/25 |
| Ammonia | | mg/L | - | 7/04/25 |
| Arsenic III | | mg/L | - | 7/04/25 |
| Arsenic V | | mg/L | - | 7/04/25 |
| Cadmium | | mg/L | - | 7/04/25 |
| Chromium (Trivalent) | | mg/L | - | 7/04/25 |
| Chromium (VI) Compounds | | mg/L | - | 7/04/25 |
| Copper | | mg/L | - | 7/04/25 |
| Iron | | mg/L | - | 7/04/25 |
| Lead | | mg/L | - | 7/04/25 |
| Manganese | | mg/L | - | 7/04/25 |
| Nickel | | mg/L | - | 7/04/25 |
| Nitrite and Nitrate as N | | mg/L | - | 7/04/25 |
| Nitrogen | | mg/L | - | 7/04/25 |
| pH | | pH units | 6-9.5 | 7/04/25 |
| Phosphorus as P | | mg/L | - | 7/04/25 |
| Reactive Phosphorus as P | | mg/L | - | 7/04/25 |
| Selenium | | mg/L | - | 7/04/25 |
| Total Kjeldahl Nitrogen | | mg/L | - | 7/04/25 |
| Total Suspended Solids | | mg/L | 50 | 7/04/25 |
| Vanadium | | mg/L | - | 7/04/25 |
| Zinc | | mg/L | - | 7/04/25 |

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

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

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.142 | mg/L | - | 21/03/25 |
| Ammonia | 0.06 | mg/L | - | 21/03/25 |
| Arsenic (III) | <0.0005 | mg/L | - | 21/03/25 |
| Arsenic (V) | 0.0012 | mg/L | - | 21/03/25 |
| Cadmium | <0.00005 | mg/L | - | 21/03/25 |
| Calcium | 2 | mg/L | - | 21/03/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 21/03/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 21/03/25 |
| Copper | <0.0005 | mg/L | - | 21/03/25 |
| Electrical Conductivity | 430 | uS/cm | - | 21/03/25 |
| Iron | 1.03 | mg/L | - | 21/03/25 |
| Lead | 0.0006 | mg/L | - | 21/03/25 |
| Magnesium | 5 | mg/L | - | 21/03/25 |
| Manganese | 0.144 | mg/L | - | 21/03/25 |
| Nickel | 0.0049 | mg/L | - | 21/03/25 |
| pH | 5.01 | pH units | - | 21/03/25 |
| Potassium | 4 | mg/L | - | 21/03/25 |
| Selenium | <0.0002 | mg/L | - | 21/03/25 |
| Sodium | 66 | mg/L | - | 21/03/25 |
| Standing Water Level | 7.910 | m | - | 21/03/25 |
| Vanadium | 0.0004 | mg/L | - | 21/03/25 |
| Zinc | 0.028 | mg/L | - | 21/03/25 |

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

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

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.316 | mg/L | - | 21/03/25 |
| Ammonia | 5.41 | mg/L | - | 21/03/25 |
| Arsenic (III) | 0.001 | mg/L | - | 21/03/25 |
| Arsenic (V) | 0.0007 | mg/L | - | 21/03/25 |
| Cadmium | 0.00006 | mg/L | - | 21/03/25 |
| Calcium | 308 | mg/L | - | 21/03/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 21/03/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 21/03/25 |
| Copper | 0.0013 | mg/L | - | 21/03/25 |
| Electrical Conductivity | 20700 | uS/cm | - | 21/03/25 |
| Iron | 10.8 | mg/L | - | 21/03/25 |
| Lead | 0.0012 | mg/L | - | 21/03/25 |
| Magnesium | 327 | mg/L | - | 21/03/25 |
| Manganese | 0.803 | mg/L | - | 21/03/25 |
| Nickel | 0.0010 | mg/L | - | 21/03/25 |
| pH | 6.54 | pH units | - | 21/03/25 |
| Potassium | 145 | mg/L | - | 21/03/25 |
| Selenium | 0.0006 | mg/L | - | 21/03/25 |
| Sodium | 3690 | mg/L | - | 21/03/25 |
| Standing Water Level | 5.475 | m | - | 21/03/25 |
| Vanadium | 0.0029 | mg/L | - | 21/03/25 |
| Zinc | 0.022 | mg/L | - | 21/03/25 |

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

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

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.015 | mg/L | - | 21/03/25 |
| Ammonia | 3.29 | mg/L | - | 21/03/25 |
| Arsenic (III) | 0.0054 | mg/L | - | 21/03/25 |
| Arsenic (V) | <0.0005 | mg/L | - | 21/03/25 |
| Cadmium | <0.00005 | mg/L | - | 21/03/25 |
| Calcium | 449 | mg/L | - | 21/03/25 |
| Chromium (trivalent) | <0.01 | mg/L | - | 21/03/25 |
| Chromium (VI) compounds | <0.01 | mg/L | - | 21/03/25 |
| Copper | <0.0005 | mg/L | - | 21/03/25 |
| Electrical Conductivity | 19100 | uS/cm | - | 21/03/25 |
| Iron | 10.2 | mg/L | - | 21/03/25 |
| Lead | 0.0002 | mg/L | - | 21/03/25 |
| Magnesium | 244 | mg/L | - | 21/03/25 |
| Manganese | 0.324 | mg/L | - | 21/03/25 |
| Nickel | 0.0012 | mg/L | - | 21/03/25 |
| pH | 6.56 | pH units | - | 21/03/25 |
| Potassium | 115 | mg/L | - | 21/03/25 |
| Selenium | 0.0004 | mg/L | - | 21/03/25 |
| Sodium | 3210 | mg/L | - | 21/03/25 |
| Standing Water Level | 2.380 | m | - | 21/03/25 |
| Vanadium | 0.0008 | mg/L | - | 21/03/25 |
| Zinc | 0.043 | mg/L | - | 21/03/25 |

**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) | EPL Limit | Number of samples |
|---|---|---|---|---|---|
| Cadmium | | | | - | |
| Chromium (hexavalant) | | | | - | |
| Chromium (trivalent) | | | | - | |
| Copper | | | | - | |
| Manganese | | | | - | |
| Nickel | | | | - | |
| PFOS | | | | - | |
| PFOA | | | | - | |
| pH | | | | - | |
| Selenium | | | | - | |
| Total Suspended solids | | | | - | |
| Vanadium | | | | - | |
| Zinc | | | | - | |

| Megalitres per day | | | |
|---|---|---|---|
| Min | Ave | Max | Monthly total |
| | | | |

**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 | EPL Limit | 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 | | - | |
| PFOA | Daily during any discharge | | - | |
| pH | Daily during any discharge | | - | |
| Selenium | Daily during any discharge | | - | |
| Total Suspended solids | Daily during any discharge | | - | |
| 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 | EPL Limit | Date |
|---|---|---|---|
| Cadmium | | - | |
| Chromium (hexavalant) | | - | |
| Chromium (trivalent) | | - | |
| Copper | | - | |
| Manganese | | - | |
| Nickel | | - | |
| PFOS | | - | |
| PFOA | | - | |
| pH | | - | |
| Selenium | | - | |
| Total Suspended solids | | - | |
| Vanadium | | - | |
| Zinc | | - | |

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

| Name | Reading | EPL Limit | Date |
|---|---|---|---|
| Cadmium | | - | |
| Chromium (hexavalant) | | - | |
| Chromium (trivalent) | | - | |
| Copper | | - | |
| Manganese | | - | |
| Nickel | | - | |
| PFOS | | - | |
| PFOA | | - | |
| pH | | - | |
| Selenium | | - | |
| Total Suspended solids | | - | |
| Vanadium | | - | |
| Zinc | | - | |