



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

Environmental Monitoring Data October2021



Unit 1A Boiler Continuous Emission Monitoring Summary

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

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 154 | 189 | 117 | 213 | 252 | 178 |
| 2 October | 151 | 193 | 136 | 180 | 268 | 143 |
| 3 October | 143 | 152 | 119 | 179 | 211 | 150 |
| 4 October | 140 | 148 | 122 | 185 | 225 | 126 |
| 5 October | 151 | 211 | 132 | 178 | 245 | 128 |
| 6 October | 154 | 183 | 138 | 168 | 211 | 133 |
| 7 October | 159 | 205 | 140 | 201 | 254 | 127 |
| 8 October | 182 | 233 | 152 | 193 | 245 | 142 |
| 9 October | 176 | 252 | 108 | 193 | 263 | 122 |
| 10 October | 158 | 172 | 135 | 206 | 247 | 163 |
| 11 October | 166 | 204 | 141 | 196 | 290 | 108 |
| 12 October | 172 | 212 | 141 | 178 | 283 | 102 |
| 13 October | 159 | 187 | 145 | 223 | 265 | 132 |
| 14 October | 166 | 193 | 141 | 225 | 335 | 128 |
| 15 October | 171 | 228 | 142 | 232 | 301 | 184 |
| 16 October | 201 | 217 | 168 | 210 | 291 | 116 |
| 17 October | 205 | 229 | 179 | 232 | 322 | 153 |
| 18 October | 197 | 237 | 161 | 245 | 343 | 178 |
| 19 October | 178 | 198 | 157 | 202 | 286 | 160 |
| 20 October | 198 | 465 | 145 | 157 | 286 | 112 |
| 21 October | 164 | 179 | 137 | 179 | 259 | 134 |
| 22 October | 155 | 178 | 129 | 199 | 345 | 123 |
| 23 October | 169 | 181 | 155 | 219 | 370 | 121 |
| 24 October | 175 | 188 | 155 | 217 | 268 | 174 |
| 25 October | 173 | 209 | 142 | 184 | 286 | 137 |
| 26 October | 179 | 228 | 144 | 194 | 295 | 147 |
| 27 October | 186 | 207 | 161 | 203 | 248 | 156 |
| 28 October | 165 | 192 | 144 | 216 | 241 | 176 |
| 29 October | 168 | 208 | 141 | 211 | 244 | 147 |
| 30 October | 187 | 206 | 153 | 161 | 216 | 121 |
| 31 October | 152 | 161 | 144 | 131 | 176 | 115 |

Unit 1B Boiler Continuous Emission Monitoring Summary

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

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 149 | 269 | 0 | 222 | 247 | 123 |
| 2 October | 141 | 180 | 128 | 228 | 235 | 217 |
| 3 October | 140 | 156 | 122 | 239 | 256 | 223 |
| 4 October | 140 | 149 | 127 | 265 | 287 | 246 |
| 5 October | 151 | 282 | 129 | 224 | 257 | 137 |
| 6 October | 138 | 154 | 128 | 219 | 233 | 205 |
| 7 October | 152 | 264 | 125 | 248 | 286 | 143 |
| 8 October | 161 | 204 | 140 | 235 | 257 | 219 |
| 9 October | 162 | 231 | 140 | 235 | 242 | 226 |
| 10 October | 142 | 158 | 125 | 235 | 270 | 227 |
| 11 October | 141 | 173 | 123 | 255 | 283 | 228 |
| 12 October | 155 | 207 | 132 | 243 | 261 | 231 |
| 13 October | 183 | 276 | 124 | 245 | 271 | 125 |
| 14 October | 152 | 176 | 133 | 264 | 282 | 244 |
| 15 October | 158 | 199 | 134 | 273 | 301 | 248 |
| 16 October | 192 | 213 | 148 | 292 | 331 | 241 |
| 17 October | 189 | 205 | 171 | 296 | 316 | 259 |
| 18 October | 188 | 359 | 154 | 288 | 362 | 170 |
| 19 October | 168 | 183 | 151 | 252 | 274 | 228 |
| 20 October | 173 | 199 | 150 | 228 | 245 | 213 |
| 21 October | 163 | 177 | 140 | 257 | 275 | 238 |
| 22 October | 162 | 175 | 137 | 283 | 332 | 217 |
| 23 October | 171 | 188 | 144 | 254 | 298 | 216 |
| 24 October | 173 | 188 | 153 | 264 | 312 | 228 |
| 25 October | 170 | 213 | 147 | 228 | 253 | 208 |
| 26 October | 168 | 209 | 141 | 226 | 248 | 203 |
| 27 October | 176 | 200 | 145 | 212 | 229 | 189 |
| 28 October | 160 | 191 | 132 | 218 | 235 | 210 |
| 29 October | 157 | 182 | 138 | 214 | 236 | 190 |
| 30 October | 178 | 203 | 141 | 212 | 217 | 207 |
| 31 October | 145 | 155 | 130 | 210 | 217 | 201 |

Unit 2A Boiler Continuous Emission Monitoring Summary

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

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 179 | 258 | 139 | 220 | 256 | 118 |
| 2 October | 167 | 193 | 149 | 213 | 224 | 202 |
| 3 October | 165 | 180 | 146 | 216 | 235 | 204 |
| 4 October | 157 | 169 | 144 | 234 | 254 | 221 |
| 5 October | 161 | 191 | 135 | 211 | 223 | 197 |
| 6 October | 161 | 179 | 143 | 203 | 218 | 189 |
| 7 October | 173 | 203 | 143 | 212 | 223 | 190 |
| 8 October | 176 | 201 | 157 | 218 | 229 | 210 |
| 9 October | 179 | 203 | 162 | 214 | 234 | 206 |
| 10 October | 164 | 175 | 147 | 220 | 250 | 214 |
| 11 October | 163 | 193 | 146 | 240 | 271 | 203 |
| 12 October | 198 | 224 | 168 | 221 | 238 | 205 |
| 13 October | 178 | 191 | 160 | 218 | 229 | 210 |
| 14 October | 164 | 196 | 141 | 244 | 271 | 222 |
| 15 October | 160 | 185 | 138 | 257 | 272 | 228 |
| 16 October | 178 | 207 | 143 | 271 | 304 | 240 |
| 17 October | 169 | 204 | 149 | 277 | 297 | 251 |
| 18 October | 159 | 220 | 131 | 272 | 317 | 202 |
| 19 October | 152 | 165 | 135 | 237 | 261 | 211 |
| 20 October | 154 | 170 | 139 | 205 | 215 | 192 |
| 21 October | 150 | 160 | 137 | 242 | 278 | 220 |
| 22 October | 149 | 187 | 133 | 245 | 282 | 201 |
| 23 October | 146 | 168 | 132 | 250 | 280 | 223 |
| 24 October | 158 | 174 | 137 | 235 | 273 | 211 |
| 25 October | 152 | 178 | 102 | 208 | 223 | 201 |
| 26 October | 162 | 195 | 105 | 198 | 208 | 189 |
| 27 October | 156 | 185 | 101 | 196 | 208 | 180 |
| 28 October | 159 | 196 | 142 | 189 | 195 | 181 |
| 29 October | 149 | 170 | 131 | 197 | 220 | 185 |
| 30 October | 158 | 177 | 141 | 191 | 215 | 187 |
| 31 October | 146 | 156 | 133 | 191 | 226 | 184 |

Unit 2B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
SOx Unit Out of Order 25-31 October 2021*

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 133 | 155 | 120 | 194 | 245 | 169 |
| 2 October | 134 | 165 | 105 | 168 | 196 | 145 |
| 3 October | 134 | 156 | 109 | 170 | 184 | 154 |
| 4 October | 136 | 158 | 111 | 191 | 212 | 169 |
| 5 October | 136 | 179 | 107 | 161 | 181 | 113 |
| 6 October | 141 | 164 | 106 | 173 | 205 | 148 |
| 7 October | 152 | 195 | 120 | 181 | 202 | 156 |
| 8 October | 143 | 170 | 124 | 182 | 202 | 157 |
| 9 October | 155 | 184 | 129 | 186 | 201 | 164 |
| 10 October | 148 | 171 | 112 | 193 | 216 | 165 |
| 11 October | 122 | 143 | 107 | 187 | 215 | 113 |
| 12 October | 153 | 170 | 133 | 178 | 211 | 156 |
| 13 October | 150 | 184 | 115 | 185 | 204 | 159 |
| 14 October | 133 | 151 | 115 | 202 | 229 | 171 |
| 15 October | 125 | 146 | 106 | 220 | 268 | 178 |
| 16 October | 164 | 233 | 109 | 241 | 295 | 197 |
| 17 October | 146 | 286 | 113 | 239 | 267 | 126 |
| 18 October | 150 | 240 | 117 | 237 | 306 | 132 |
| 19 October | 133 | 159 | 106 | 195 | 235 | 161 |
| 20 October | 131 | 151 | 109 | 171 | 187 | 148 |
| 21 October | 127 | 168 | 102 | 203 | 248 | 165 |
| 22 October | 128 | 181 | 101 | 204 | 255 | 151 |
| 23 October | 129 | 178 | 104 | 210 | 244 | 174 |
| 24 October | 142 | 170 | 100 | 152 | 184 | 119 |
| 25 October | 133 | 165 | 110 | - | - | - |
| 26 October | 137 | 213 | 103 | - | - | - |
| 27 October | 126 | 148 | 104 | - | - | - |
| 28 October | 131 | 199 | 102 | - | - | - |
| 29 October | 137 | 270 | 115 | - | - | - |
| 30 October | 134 | 162 | 108 | - | - | - |
| 31 October | 135 | 150 | 104 | - | - | - |

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 152 | 208 | 116 | 237 | 245 | 221 |
| 2 October | 153 | 190 | 136 | 240 | 249 | 222 |
| 3 October | 155 | 182 | 128 | 243 | 258 | 221 |
| 4 October | 165 | 188 | 142 | 261 | 286 | 241 |
| 5 October | 153 | 193 | 133 | 238 | 251 | 228 |
| 6 October | 153 | 174 | 132 | 226 | 243 | 212 |
| 7 October | 156 | 181 | 132 | 252 | 271 | 223 |
| 8 October | 150 | 203 | 132 | 242 | 255 | 226 |
| 9 October | 189 | 478 | 121 | 233 | 247 | 182 |
| 10 October | 171 | 191 | 123 | 248 | 254 | 239 |
| 11 October | 169 | 236 | 136 | 255 | 268 | 229 |
| 12 October | 170 | 229 | 139 | 251 | 266 | 244 |
| 13 October | 158 | 213 | 120 | 246 | 258 | 233 |
| 14 October | 178 | 245 | 114 | 277 | 300 | 245 |
| 15 October | 160 | 185 | 138 | 257 | 272 | 228 |
| 16 October | 178 | 207 | 143 | 271 | 304 | 240 |
| 17 October | 169 | 204 | 149 | 277 | 297 | 251 |
| 18 October | 159 | 220 | 131 | 272 | 317 | 202 |
| 19 October | 152 | 165 | 135 | 237 | 261 | 211 |
| 20 October | 154 | 170 | 139 | 205 | 215 | 192 |
| 21 October | 150 | 160 | 137 | 242 | 278 | 220 |
| 22 October | 142 | 153 | 122 | 283 | 319 | 261 |
| 23 October | 156 | 231 | 115 | 288 | 331 | 250 |
| 24 October | 162 | 209 | 135 | 279 | 313 | 245 |
| 25 October | 168 | 243 | 143 | 249 | 279 | 228 |
| 26 October | 171 | 225 | 114 | 232 | 242 | 221 |
| 27 October | 177 | 198 | 157 | 225 | 243 | 208 |
| 28 October | 172 | 205 | 116 | 221 | 230 | 208 |
| 29 October | 156 | 181 | 136 | 226 | 230 | 222 |
| 30 October | 173 | 222 | 106 | 222 | 228 | 216 |
| 31 October | 153 | 184 | 136 | 218 | 221 | 207 |

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | 154 | 220 | 123 | 235 | 243 | 209 |
| 2 October | 151 | 202 | 127 | 237 | 243 | 216 |
| 3 October | 146 | 165 | 121 | 238 | 258 | 203 |
| 4 October | 154 | 178 | 128 | 255 | 277 | 234 |
| 5 October | 145 | 194 | 128 | 232 | 243 | 219 |
| 6 October | 141 | 161 | 115 | 218 | 238 | 189 |
| 7 October | 149 | 189 | 102 | 231 | 266 | 103 |
| 8 October | 145 | 216 | 129 | 236 | 254 | 212 |
| 9 October | 185 | 501 | 136 | 218 | 234 | 152 |
| 10 October | 166 | 184 | 146 | 235 | 239 | 211 |
| 11 October | 162 | 226 | 126 | 241 | 263 | 203 |
| 12 October | 167 | 222 | 124 | 243 | 257 | 230 |
| 13 October | 155 | 208 | 128 | 236 | 244 | 222 |
| 14 October | 166 | 220 | 142 | 266 | 290 | 222 |
| 15 October | 129 | 146 | 115 | 220 | 268 | 178 |
| 16 October | 182 | 233 | 120 | 241 | 295 | 197 |
| 17 October | 146 | 286 | 113 | 239 | 267 | 126 |
| 18 October | 150 | 240 | 117 | 237 | 306 | 132 |
| 19 October | 131 | 159 | 104 | 195 | 235 | 161 |
| 20 October | 134 | 151 | 118 | 171 | 187 | 148 |
| 21 October | 134 | 168 | 111 | 203 | 248 | 165 |
| 22 October | 141 | 165 | 125 | 274 | 309 | 238 |
| 23 October | 157 | 236 | 122 | 283 | 321 | 249 |
| 24 October | 161 | 222 | 125 | 271 | 301 | 228 |
| 25 October | 165 | 246 | 128 | 249 | 275 | 230 |
| 26 October | 174 | 234 | 142 | 238 | 248 | 220 |
| 27 October | 170 | 188 | 154 | 231 | 248 | 208 |
| 28 October | 170 | 209 | 150 | 228 | 237 | 211 |
| 29 October | 154 | 189 | 138 | 228 | 237 | 208 |
| 30 October | 171 | 231 | 115 | 222 | 228 | 201 |
| 31 October | 157 | 182 | 121 | 220 | 225 | 196 |

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air

Unit 4A Out of Service 1-31 October2021

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | - | - | - | - | - | - |
| 2 October | - | - | - | - | - | - |
| 3 October | - | - | - | - | - | - |
| 4 October | - | - | - | - | - | - |
| 5 October | - | - | - | - | - | - |
| 6 October | - | - | - | - | - | - |
| 7 October | - | - | - | - | - | - |
| 8 October | - | - | - | - | - | - |
| 9 October | - | - | - | - | - | - |
| 10 October | - | - | - | - | - | - |
| 11 October | - | - | - | - | - | - |
| 12 October | - | - | - | - | - | - |
| 13 October | - | - | - | - | - | - |
| 14 October | - | - | - | - | - | - |
| 15 October | - | - | - | - | - | - |
| 16 October | - | - | - | - | - | - |
| 17 October | - | - | - | - | - | - |
| 18 October | - | - | - | - | - | - |
| 19 October | - | - | - | - | - | - |
| 20 October | - | - | - | - | - | - |
| 21 October | - | - | - | - | - | - |
| 22 October | - | - | - | - | - | - |
| 23 October | - | - | - | - | - | - |
| 24 October | - | - | - | - | - | - |
| 25 October | - | - | - | - | - | - |
| 26 October | - | - | - | - | - | - |
| 27 October | - | - | - | - | - | - |
| 28 October | - | - | - | - | - | - |
| 29 October | - | - | - | - | - | - |
| 30 October | - | - | - | - | - | - |
| 31 October | - | - | - | - | - | - |

Unit 4B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack
discharge to air*

Unit 4B Out of Service 1-31 October2021

| | NOX | | | SOX | | |
|------------|--------------------------|------------|------------|--------------------------|------------|------------|
| | ppm (7% O ₂) | | | ppm (7% O ₂) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 October | - | - | - | - | - | - |
| 2 October | - | - | - | - | - | - |
| 3 October | - | - | - | - | - | - |
| 4 October | - | - | - | - | - | - |
| 5 October | - | - | - | - | - | - |
| 6 October | - | - | - | - | - | - |
| 7 October | - | - | - | - | - | - |
| 8 October | - | - | - | - | - | - |
| 9 October | - | - | - | - | - | - |
| 10 October | - | - | - | - | - | - |
| 11 October | - | - | - | - | - | - |
| 12 October | - | - | - | - | - | - |
| 13 October | - | - | - | - | - | - |
| 14 October | - | - | - | - | - | - |
| 15 October | - | - | - | - | - | - |
| 16 October | - | - | - | - | - | - |
| 17 October | - | - | - | - | - | - |
| 18 October | - | - | - | - | - | - |
| 19 October | - | - | - | - | - | - |
| 20 October | - | - | - | - | - | - |
| 21 October | - | - | - | - | - | - |
| 22 October | - | - | - | - | - | - |
| 23 October | - | - | - | - | - | - |
| 24 October | - | - | - | - | - | - |
| 25 October | - | - | - | - | - | - |
| 26 October | - | - | - | - | - | - |
| 27 October | - | - | - | - | - | - |
| 28 October | - | - | - | - | - | - |
| 29 October | - | - | - | - | - | - |
| 30 October | - | - | - | - | - | - |
| 31 October | - | - | - | - | - | - |

Unit 1 Boiler Emission Test Results

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|-------------------|---------------|------------|
| Chlorine | 0.014 | mg/m ³ | 20 | 27/04/2021 |
| Fluorine | 11 | mg/m ³ | 30 | 27/04/2021 |
| Hydrogen chloride | 2.9 | mg/m ³ | 50 | 27/04/2021 |
| Solid Particles | <4 | mg/m ³ | 50 | 27/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO ₃) | 0.59 | mg/m ³ | 100 | 27/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.08 | mg/m ³ | 10 | 27/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | 0.2 | 9/07/2021 |
| Mercury | <0.0002 | mg/m ³ | 0.05 | 9/07/2021 |
| Solid Particles | 2.3 | mg/m ³ | 50 | 9/07/2021 |
| Type 1 and 2 substances in Aggregate | <0.03 | mg/m ³ | 0.75 | 9/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|---|---------|---------------------|---------------|------------|
| Flow Rate | 370 | m ³ /sec | | 27/04/2021 |
| Moisture | 5.7 | % | | 27/04/2021 |
| Oxygen | 8.3 | % | | 27/04/2021 |
| Solid Particles | 7.8 | mg/m ³ | | 27/04/2021 |
| Temperature | 117 | degC | | 27/04/2021 |
| Carbon dioxide | 12.1 | % | | 27/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | | 9/07/2021 |
| Flow Rate | 370 | m ³ /sec | | 9/07/2021 |
| Mercury | 0.00016 | mg/m ³ | | 9/07/2021 |
| Moisture | 5.2 | % | | 9/07/2021 |
| Oxygen | 7.3 | % | | 9/07/2021 |
| Solid Particles | 2.2 | mg/m ³ | | 9/07/2021 |
| Temperature | 115 | degC | | 9/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.040 | mg/m ³ | | 9/07/2021 |
| Carbon dioxide | 12.5 | % | | 9/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|---------------------|---------------|------------|
| Flow Rate | 400 | m ³ /sec | | 27/04/2021 |
| Moisture | 5.2 | % | | 27/04/2021 |
| Oxygen | 6.5 | % | | 27/04/2021 |
| Solid Particles | <0.9 | mg/m ³ | | 27/04/2021 |
| Temperature | 121 | degC | | 27/04/2021 |
| Carbon dioxide | 12.4 | % | | 27/04/2021 |
| Chlorine | 0.014 | mg/m ³ | | 27/04/2021 |
| Fluorine | 11 | mg/m ³ | | 27/04/2021 |
| Hydrogen chloride | 2.9 | mg/m ³ | | 27/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO ₃) | 0.59 | mg/m ³ | | 27/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.08 | mg/m ³ | | 27/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | | 9/07/2021 |
| Flow Rate | 370 | m ³ /sec | | 9/07/2021 |
| Mercury | <0.0002 | mg/m ³ | | 9/07/2021 |
| Moisture | 5.7 | % | | 9/07/2021 |
| Oxygen | 6.4 | % | | 9/07/2021 |
| Solid Particles | 2.3 | mg/m ³ | | 9/07/2021 |
| Temperature | 119 | degC | | 9/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.021 | mg/m ³ | | 9/07/2021 |
| Carbon dioxide | 12.6 | % | | 9/07/2021 |

Unit 2 Boiler Emission Test Results

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|-------------------|---------------|------------|
| Chlorine | <0.008 | mg/m ³ | 20 | 28/04/2021 |
| Fluorine | 4.0 | mg/m ³ | 30 | 28/04/2021 |
| Hydrogen chloride | 1.1 | mg/m ³ | 50 | 28/04/2021 |
| Solid Particles | 5.1 | mg/m ³ | 50 | 28/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO ₃) | 1.7 | mg/m ³ | 100 | 28/04/2021 |
| Volatile organic compounds as n-propane equivalent | 0.049 | mg/m ³ | 10 | 28/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | 0.2 | 7/07/2021 |
| Mercury | 0.0016 | mg/m ³ | 0.05 | 7/07/2021 |
| Solid Particles | 4.1 | mg/m ³ | 50 | 7/07/2021 |
| Type 1 and 2 substances in Aggregate | <0.02 | mg/m ³ | 0.75 | 7/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|---------------------|---------------|------------|
| Flow Rate | 350 | m ³ /sec | | 28/04/2021 |
| Moisture | 5.4 | % | | 28/04/2021 |
| Oxygen | 7.2 | % | | 28/04/2021 |
| Solid Particles | 6.9 | mg/m ³ | | 28/04/2021 |
| Temperature | 122 | degC | | 28/04/2021 |
| Carbon dioxide | 11.8 | % | | 28/04/2021 |
| Chlorine | <0.008 | mg/m ³ | | 28/04/2021 |
| Fluorine | 4.0 | mg/m ³ | | 28/04/2021 |
| Hydrogen chloride | 1.1 | mg/m ³ | | 28/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO ₃) | 1.7 | mg/m ³ | | 28/04/2021 |
| Volatile organic compounds as n-propane equivalent | 0.049 | mg/m ³ | | 28/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | | 7/07/2021 |
| Flow Rate | 250 | m ³ /sec | | 7/07/2021 |
| Mercury | 0.0015 | mg/m ³ | | 7/07/2021 |
| Moisture | 6.1 | % | | 7/07/2021 |
| Oxygen | 8.8 | % | | 7/07/2021 |
| Solid Particles | 4.1 | mg/m ³ | | 7/07/2021 |
| Temperature | 125 | degC | | 7/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.015 | mg/m ³ | | 7/07/2021 |
| Carbon dioxide | 10.5 | % | | 7/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|---|---------|---------------------|---------------|------------|
| Flow Rate | 350 | m ³ /sec | | 28/04/2021 |
| Moisture | 6.1 | % | | 28/04/2021 |
| Oxygen | 5.8 | % | | 28/04/2021 |
| Solid Particles | 3.3 | mg/m ³ | | 28/04/2021 |
| Temperature | 119 | degC | | 28/04/2021 |
| Carbon dioxide | 14.5 | % | | 28/04/2021 |
| | | | | |
| Cadmium | <0.0003 | mg/m ³ | | 7/07/2021 |
| Flow Rate | 230 | m ³ /sec | | 7/07/2021 |
| Mercury | 0.0018 | mg/m ³ | | 7/07/2021 |
| Moisture | 11 | % | | 7/07/2021 |
| Oxygen | 9.6 | % | | 7/07/2021 |
| Solid Particles | 4.2 | mg/m ³ | | 7/07/2021 |
| Temperature | 115 | degC | | 7/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.019 | mg/m ³ | | 7/07/2021 |
| Carbon dioxide | 10.9 | % | | 7/07/2021 |

Unit 3 Boiler Emission Test Results

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|-------|---------------|------------|
| Chlorine | 0.016 | mg/m3 | 20 | 29/04/2021 |
| Fluorine | 6.3 | mg/m3 | 30 | 29/04/2021 |
| Hydrogen chloride | 2.2 | mg/m3 | 50 | 29/04/2021 |
| Solid Particles | 2.6 | mg/m3 | 50 | 29/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.6 | mg/m3 | 100 | 29/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.08 | mg/m3 | 10 | 29/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | 0.2 | 8/07/2021 |
| Mercury | 0.00035 | mg/m3 | 0.05 | 8/07/2021 |
| Solid Particles | 4.1 | mg/m3 | 50 | 8/07/2021 |
| Type 1 and 2 substances in Aggregate | <0.04 | mg/m3 | 0.75 | 8/07/2021 |

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A

| Name | Reading | Units | Licence Limit | Date |
|---|---------|--------|---------------|------------|
| Flow Rate | 340 | m3/sec | | 29/04/2021 |
| Moisture | 6.0 | % | | 29/04/2021 |
| Oxygen | 5.9 | % | | 29/04/2021 |
| Solid Particles | 2.7 | mg/m3 | | 29/04/2021 |
| Temperature | 125 | degC | | 29/04/2021 |
| Carbon dioxide | 14.5 | % | | 29/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | | 8/07/2021 |
| Flow Rate | 370 | m3/sec | | 8/07/2021 |
| Mercury | 0.00027 | mg/m3 | | 8/07/2021 |
| Moisture | 5.4 | % | | 8/07/2021 |
| Oxygen | 6.7 | % | | 8/07/2021 |
| Solid Particles | 7.0 | mg/m3 | | 8/07/2021 |
| Temperature | 123 | degC | | 8/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.040 | mg/m3 | | 8/07/2021 |
| Carbon dioxide | 13.1 | % | | 8/07/2021 |

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B

| Name | Reading | Units | Licence Limit | Date |
|--|---------|--------|---------------|------------|
| Flow Rate | 320 | m3/sec | | 29/04/2021 |
| Moisture | 5.5 | % | | 29/04/2021 |
| Oxygen | 6.8 | % | | 29/04/2021 |
| Solid Particles | 2.5 | mg/m3 | | 29/04/2021 |
| Temperature | 117 | degC | | 29/04/2021 |
| Carbon dioxide | 12.2 | % | | 29/04/2021 |
| Chlorine | 0.016 | mg/m3 | | 29/04/2021 |
| Fluorine | 6.3 | mg/m3 | | 29/04/2021 |
| Hydrogen chloride | 2.2 | mg/m3 | | 29/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.6 | mg/m3 | | 29/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.08 | mg/m3 | | 29/04/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | | 8/07/2021 |
| Flow Rate | 330 | m3/sec | | 8/07/2021 |
| Mercury | 0.00044 | mg/m3 | | 8/07/2021 |
| Moisture | 5.4 | % | | 8/07/2021 |
| Oxygen | 6.4 | % | | 8/07/2021 |
| Solid Particles | 0.8 | mg/m3 | | 8/07/2021 |
| Temperature | 120 | degC | | 8/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.031 | mg/m3 | | 8/07/2021 |
| Carbon dioxide | 12.6 | % | | 8/07/2021 |

Unit 4 Boiler Emission Test Results

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|-------|---------------|------------|
| Chlorine | 0.01 | mg/m3 | 20 | 7/04/2021 |
| Fluorine | 13 | mg/m3 | 30 | 7/04/2021 |
| Hydrogen chloride | 2.7 | mg/m3 | 50 | 7/04/2021 |
| Solid Particles | 6.2 | mg/m3 | 50 | 29/06/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 2.7 | mg/m3 | 100 | 7/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.1 | mg/m3 | 10 | 7/04/2021 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | 0.2 | 6/07/2021 |
| Mercury | 0.00037 | mg/m3 | 0.05 | 6/07/2021 |
| Solid Particles | 4.4 | mg/m3 | 50 | 6/07/2021 |
| Type 1 and 2 substances in Aggregate | <0.02 | mg/m3 | 0.75 | 6/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|--|---------|---------------------|---------------|-----------|
| Flow Rate | 500 | m ³ /sec | | 7/04/2021 |
| Moisture | 5.3 | % | | 7/04/2021 |
| Oxygen | 10.4 | % | | 7/04/2021 |
| Solid Particles | 9.5 | mg/m ³ | | 7/04/2021 |
| Temperature | 111 | degC | | 7/04/2021 |
| Carbon dioxide | 10.4 | % | | 7/04/2021 |
| Chlorine | 0.01 | mg/m ³ | | 7/04/2021 |
| Fluorine | 13 | mg/m ³ | | 7/04/2021 |
| Hydrogen chloride | 2.7 | mg/m ³ | | 7/04/2021 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 2.7 | mg/m ³ | | 7/04/2021 |
| Volatile organic compounds as n-propane equivalent | <0.1 | mg/m ³ | | 7/04/2021 |
| | | | | |
| Cadmium | <0.0003 | mg/m ³ | | 6/07/2021 |
| Flow Rate | 390 | m ³ /sec | | 6/07/2021 |
| Mercury | 0.00049 | mg/m ³ | | 6/07/2021 |
| Moisture | 5.3 | % | | 6/07/2021 |
| Oxygen | 8.8 | % | | 6/07/2021 |
| Solid Particles | 7.0 | mg/m ³ | | 6/07/2021 |
| Temperature | 119 | degC | | 6/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.030 | mg/m ³ | | 6/07/2021 |
| Carbon dioxide | 10.0 | % | | 6/07/2021 |

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

| Name | Reading | Units | Licence Limit | Date |
|---|---------|---------------------|---------------|------------|
| Flow Rate | 400 | m ³ /sec | | 29/06/2021 |
| Moisture | 5.9 | % | | 29/06/2021 |
| Oxygen | 6.9 | % | | 29/06/2021 |
| Solid Particles | 2 | mg/m ³ | | 29/06/2021 |
| Temperature | 121 | degC | | 29/06/2021 |
| Carbon dioxide | 13.4 | % | | 29/06/2021 |
| | | | | |
| Cadmium | <0.0002 | mg/m ³ | | 6/07/2021 |
| Flow Rate | 380 | m ³ /sec | | 6/07/2021 |
| Mercury | 0.00024 | mg/m ³ | | 6/07/2021 |
| Moisture | 5.5 | % | | 6/07/2021 |
| Oxygen | 6.7 | % | | 6/07/2021 |
| Solid Particles | 1.8 | mg/m ³ | | 6/07/2021 |
| Temperature | 115 | degC | | 6/07/2021 |
| Type 1 and Type 2 substances in Aggregate | <0.011 | mg/m ³ | | 6/07/2021 |
| Carbon dioxide | 13.0 | % | | 6/07/2021 |

Eraring Depositional Dust Gauges

EPA Identification no. 17, 18, 19 & 20- Depositional dust monitoring within 1km of the coal handling operations

| Eraring Identification | EPA Identification No | Deposited Matter | | |
|------------------------|-----------------------|-------------------------|-------------|-------------|
| | | g/m ² /month | | |
| | | Ash | Combustible | Insoluble |
| E2 | 17 | 0.5 | 0.3 | 0.8 |
| E4 | 18 | 0.6 | 0.4 | 1.0 |
| E6 | 19 | 23.6 | 15.2 | 38.8 |
| U6 | 20 | 0.6 | 0.3 | 0.9 |

E6 anomalous elevated result due to organic material.

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | Secchi |
|-------------------------|-------|------------|---------|----------|------------------|--------|
| °C | m | degC | pH unit | ppt | % | mg/L |
| 20.0 | 0.50 | 19.93 | 8.10 | 17.5 | 105.7 | 8.24 |
| Name | | | Reading | | Units | |
| Aluminium | | | 0.104 | | mg/L | |
| Ammonia | | | <0.005 | | mg/L | |
| Arsenic III | | | <0.005 | | mg/ | |
| Arsenic V | | | <0.005 | | mg/L | |
| Cadmium | | | <0.0002 | | mg/L | |
| Chromium (Trivalent) | | | <0.001 | | mg/L | |
| Chromium (VI) Compounds | | | <0.001 | | mg/L | |
| Copper | | | 0.001 | | mg/L | |
| Iron | | | 0.128 | | mg/L | |
| Lead | | | <0.0002 | | mg/L | |
| Manganese | | | 0.0098 | | mg/L | |
| Nickel | | | 0.0012 | | mg/L | |
| pH | | | 8.07 | | pH units | |
| Selenium | | | <0.001 | | mg/L | |
| Total Suspended Solids | | | 8 | | mg/L | |
| Vanadium | | | 0.0018 | | mg/L | |
| Zinc | | | <0.005 | | mg/L | |

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

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | Secchi | |
|-------------------------|-------|------------|---------|----------|------------------|--------|-----------|
| °C | m | degC | pH unit | ppt | % | mg/L | m |
| 21.0 | 0.50 | 19.98 | 8.11 | 17.7 | 94.4 | 7.55 | 4.25 |
| Name | | | Reading | | Units | | Date |
| Aluminium | | | 0.014 | | mg/L | | 5/10/2021 |
| Ammonia | | | <0.010 | | mg/L | | 5/10/2021 |
| Arsenic III | | | <0.005 | | mg/L | | 5/10/2021 |
| Arsenic V | | | <0.005 | | mg/L | | 5/10/2021 |
| Cadmium | | | <0.0002 | | mg/L | | 5/10/2021 |
| Chromium (Trivalent) | | | <0.001 | | mg/L | | 5/10/2021 |
| Chromium (VI) Compounds | | | <0.001 | | mg/L | | 5/10/2021 |
| Copper | | | 0.002 | | mg/L | | 5/10/2021 |
| Iron | | | 0.013 | | mg/L | | 5/10/2021 |
| Lead | | | <0.0002 | | mg/L | | 5/10/2021 |
| Manganese | | | 0.0040 | | mg/L | | 5/10/2021 |
| Nickel | | | 0.0013 | | mg/L | | 5/10/2021 |
| pH | | | 8.11 | | pH units | | 5/10/2021 |
| Selenium | | | <0.001 | | mg/L | | 5/10/2021 |
| Total Suspended Solids | | | 9 | | mg/L | | 5/10/2021 |
| Vanadium | | | 0.0018 | | mg/L | | 5/10/2021 |
| Zinc | | | <0.005 | | mg/L | | 5/10/2021 |

Water Quality - Lake Monitoring LM4

*EPA Identification no. 30 - The northern waters of Lake Macquarie east off
Lake Macquarie Yacht Club*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | Secchi |
|-------------------------|-------|------------|----------------|--------------|------------------|--------|
| °C | m | degC | pH unit | ppt | % | mg/L |
| 17.0 | 0.50 | 18.51 | 8.13 | 17.6 | 112.2 | 9.18 |
| Name | | | Reading | Units | Date | |
| Aluminium | | | 0.012 | mg/L | 5/10/2021 | |
| Ammonia | | | <0.005 | mg/L | 5/10/2021 | |
| Arsenic III | | | <0.005 | mg/L | 5/10/2021 | |
| Arsenic V | | | <0.005 | mg/L | 5/10/2021 | |
| Cadmium | | | 0.0002 | mg/L | 5/10/2021 | |
| Chromium (Trivalent) | | | <0.001 | mg/L | 5/10/2021 | |
| Chromium (VI) Compounds | | | <0.001 | mg/L | 5/10/2021 | |
| Copper | | | <0.001 | mg/L | 5/10/2021 | |
| Iron | | | 0.010 | mg/L | 5/10/2021 | |
| Lead | | | <0.0002 | mg/L | 5/10/2021 | |
| Manganese | | | 0.0032 | mg/L | 5/10/2021 | |
| Nickel | | | 0.0013 | mg/L | 5/10/2021 | |
| pH | | | 8.08 | pH units | 5/10/2021 | |
| Selenium | | | <0.001 | mg/L | 5/10/2021 | |
| Total Suspended Solids | | | <5 | mg/L | 5/10/2021 | |
| Vanadium | | | 0.0015 | mg/L | 5/10/2021 | |
| Zinc | | | <0.005 | mg/L | 5/10/2021 | |

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*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|-------------------------|---------|------------|----------|----------|------------------|------|--------|
| °C | m | degC | pH unit | ppt | % | mg/L | m |
| 18.0 | 0.5 | 21.27 | 8.08 | 17.8 | 99.6 | 7.78 | 2.75 |
| Name | Reading | | Units | | Date | | |
| Aluminium | 0.039 | | mg/L | | 5/10/2021 | | |
| Ammonia | <0.005 | | mg/L | | 5/10/2021 | | |
| Arsenic III | <0.005 | | mg/L | | 5/10/2021 | | |
| Arsenic V | <0.005 | | mg/L | | 5/10/2021 | | |
| Cadmium | <0.0002 | | mg/L | | 5/10/2021 | | |
| Chromium (Trivalent) | <0.001 | | mg/L | | 5/10/2021 | | |
| Chromium (VI) Compounds | <0.001 | | mg/L | | 5/10/2021 | | |
| Copper | 0.001 | | mg/L | | 5/10/2021 | | |
| Iron | 0.052 | | mg/L | | 5/10/2021 | | |
| Lead | <0.0002 | | mg/L | | 5/10/2021 | | |
| Manganese | 0.0069 | | mg/L | | 5/10/2021 | | |
| Nickel | 0.0012 | | mg/L | | 5/10/2021 | | |
| pH | 8.09 | | pH units | | 5/10/2021 | | |
| Selenium | <0.001 | | mg/L | | 5/10/2021 | | |
| Total Suspended Solids | <5 | | mg/L | | 5/10/2021 | | |
| Vanadium | 0.0017 | | mg/L | | 5/10/2021 | | |
| Zinc | <0.005 | | mg/L | | 5/10/2021 | | |

Eraring Ash Dam Effluent Quality Monitoring

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

| Name | Reading | Units | Licence Limit | Date |
|--------------------------|---------|----------|---------------|-----------|
| Aluminium | 0.047 | mg/L | - | 7/10/2021 |
| Ammonia | 0.71 | mg/L | - | 7/10/2021 |
| Arsenic III | <0.0005 | mg/L | - | 7/10/2021 |
| Arsenic V | 0.0051 | mg/L | - | 7/10/2021 |
| Cadmium | 0.00010 | mg/L | - | 7/10/2021 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/10/2021 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/10/2021 |
| Copper | 0.0029 | mg/L | - | 7/10/2021 |
| Iron | 0.006 | mg/L | - | 7/10/2021 |
| Lead | <0.0001 | mg/L | - | 7/10/2021 |
| Manganese | 0.0553 | mg/L | - | 7/10/2021 |
| Nickel | 0.0020 | mg/L | - | 7/10/2021 |
| Nitrite and Nitrate as N | 3.73 | mg/L | - | 7/10/2021 |
| Nitrogen | 5.0 | mg/L | - | 7/10/2021 |
| pH | 7.80 | pH units | - | 7/10/2021 |
| Phosphorus as P | 0.56 | mg/L | - | 7/10/2021 |
| Reactive Phosphorus as P | 0.48 | mg/L | - | 7/10/2021 |
| Selenium | 0.0461 | mg/L | - | 7/10/2021 |
| Total Kjeldahl Nitrogen | 1.3 | mg/L | - | 7/10/2021 |
| Total Suspended Solids | <1 | mg/L | - | 7/10/2021 |
| Vanadium | 0.0438 | mg/L | - | 7/10/2021 |
| Zinc | 0.005 | mg/L | - | 7/10/2021 |

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 | 0.082 | mg/L | - | 7/10/2021 |
| Ammonia | <0.005 | mg/L | - | 7/10/2021 |
| Arsenic III | <0.005 | mg/L | - | 7/10/2021 |
| Arsenic V | <0.005 | mg/L | - | 7/10/2021 |
| Cadmium | <0.0002 | mg/L | - | 7/10/2021 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/10/2021 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/10/2021 |
| Copper | 0.0012 | mg/L | - | 7/10/2021 |
| Iron | 0.102 | mg/L | - | 7/10/2021 |
| Lead | <0.0002 | mg/L | - | 7/10/2021 |
| Manganese | 0.0070 | mg/L | - | 7/10/2021 |
| Nickel | <0.0005 | mg/L | - | 7/10/2021 |
| pH | 8.04 | pH units | - | 7/10/2021 |
| Selenium | <0.001 | mg/L | - | 7/10/2021 |
| Total suspended Solids | 16 | mg/L | - | 7/10/2021 |
| Vanadium | 0.0019 | mg/L | - | 7/10/2021 |
| Zinc | <0.005 | mg/L | - | 7/10/2021 |
| Dissolved Oxygen | 11.31 | mg/L | - | 7/10/2021 |
| Field Temperature | 19.0 | degC | - | 7/10/2021 |
| Salinity | 17.3 | ppt | - | 7/10/2021 |
| Secchi Disk | 2.75 | m | - | 7/10/2021 |
| Temperature – Average | 21.1 | deg C | - | October2021 |
| Temperature – Minimum | 18.5 | deg C | - | October2021 |
| Temperature - Maximum | 24.5 | deg C | - | October2021 |

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

| Name | Reading | Units | Licence Limit | Date |
|--------------------------------------|---------|-------|---------------|-------------|
| Copper | 0.0031 | mg/L | 0.005 | 7/10/2021 |
| Iron | 0.098 | mg/L | 0.3 | 7/10/2021 |
| Selenium | <0.001 | mg/L | 0.002 | 7/10/2021 |
| Temperature – Average | 26.7 | deg C | 37.5 | October2021 |
| Temperature – Minimum | 22.6 | deg C | 37.5 | October2021 |
| Temperature - Maximum | 33.2 | deg C | 37.5 | October2021 |
| Maximum Daily Discharge from Ash Dam | 10.47 | ML | 150 | October2021 |
| Monthly Discharge from Ash Dam | 74.1 | ML | - | October2021 |

Emergency Discharge – Toe Drain Pond

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

| Name | Reading | Units | Licence Limit | Date |
|--------------------------|----------|----------|---------------|-----------|
| Aluminium | 0.021 | mg/L | - | 7/10/2021 |
| Ammonia | 1.18 | mg/L | - | 7/10/2021 |
| Arsenic III | 0.0007 | mg/L | - | 7/10/2021 |
| Arsenic V | <0.0005 | mg/L | - | 7/10/2021 |
| Cadmium | <0.00005 | mg/L | - | 7/10/2021 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 7/10/2021 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 7/10/2021 |
| Copper | <0.0005 | mg/L | - | 7/10/2021 |
| Iron | 2.59 | mg/L | - | 7/10/2021 |
| Lead | <0.0001 | mg/L | - | 7/10/2021 |
| Manganese | 0.878 | mg/L | - | 7/10/2021 |
| Nickel | 0.0013 | mg/L | - | 7/10/2021 |
| Nitrite and Nitrate as N | 0.107 | mg/L | - | 7/10/2021 |
| Nitrogen | 1.58 | mg/L | - | 7/10/2021 |
| pH | 6.86 | pH units | 6-9.5 | 7/10/2021 |
| Phosphorus as P | 0.086 | mg/L | - | 7/10/2021 |
| Reactive Phosphorus as P | 0.007 | mg/L | - | 7/10/2021 |
| Selenium | 0.0002 | mg/L | - | 7/10/2021 |
| Total Kjeldahl Nitrogen | 1.47 | mg/L | - | 7/10/2021 |
| Total Suspended Solids | 9 | mg/L | 50 | 7/10/2021 |
| Vanadium | 0.0004 | mg/L | - | 7/10/2021 |
| Zinc | 0.005 | mg/L | - | 7/10/2021 |

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert
No Discharge during October2021

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

Groundwater Monitoring
Groundwater Well – MW01

EPA 01
Identification no. 32 – Groundwater Monitoring Well

| Name | Reading | Units | Date |
|-------------------------|----------|----------|------------|
| Aluminium | 0.208 | mg/L | 29/09/2021 |
| Ammonia | 0.01 | mg/L | 29/09/2021 |
| Arsenic (III) | <0.0005 | mg/L | 29/09/2021 |
| Arsenic (V) | <0.0005 | mg/L | 29/09/2021 |
| Cadmium | <0.00005 | mg/L | 29/09/2021 |
| Calcium | 2 | mg/L | 29/09/2021 |
| Chromium (trivalent) | <0.001 | mg/L | 29/09/2021 |
| Chromium (VI) compounds | <0.001 | mg/L | 29/09/2021 |
| Copper | 0.0024 | mg/L | 29/09/2021 |
| Electrical Conductivity | 439 | uS/cm | 29/09/2021 |
| Iron | 0.110 | mg/L | 29/09/2021 |
| Lead | 0.0015 | mg/L | 29/09/2021 |
| Magnesium | 5 | mg/L | 29/09/2021 |
| Manganese | 0.155 | mg/L | 29/09/2021 |
| Nickel | 0.0057 | mg/L | 29/09/2021 |
| pH | 4.86 | pH units | 29/09/2021 |
| Potassium | 4 | mg/L | 29/09/2021 |
| Selenium | <0.0002 | mg/L | 29/09/2021 |
| Sodium | 73 | mg/L | 29/09/2021 |
| Standing Water Level | 8.07 | metres | 29/09/2021 |
| Vanadium | 0.0003 | mg/L | 29/09/2021 |
| Zinc | 0.028 | mg/L | 29/09/2021 |

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

| Name | Reading | Units | Date |
|-------------------------|---------|----------|------------|
| Aluminium | 0.499 | mg/L | 28/09/2021 |
| Ammonia | 4.46 | mg/L | 28/09/2021 |
| Arsenic (III) | 0.0019 | mg/L | 28/09/2021 |
| Arsenic (V) | <0.001 | mg/L | 28/09/2021 |
| Cadmium | <0.0002 | mg/L | 28/09/2021 |
| Calcium | 296 | mg/L | 28/09/2021 |
| Chromium (trivalent) | <0.001 | mg/L | 28/09/2021 |
| Chromium (VI) compounds | 0.006 | mg/L | 28/09/2021 |
| Copper | <0.001 | mg/L | 28/09/2021 |
| Electrical Conductivity | 26100 | uS/cm | 28/09/2021 |
| Iron | 25.6 | mg/L | 28/09/2021 |
| Lead | 0.0009 | mg/L | 28/09/2021 |
| Magnesium | 490 | mg/L | 28/09/2021 |
| Manganese | 0.820 | mg/L | 28/09/2021 |
| Nickel | 0.0007 | mg/L | 28/09/2021 |
| pH | 6.40 | pH units | 28/09/2021 |
| Potassium | 175 | mg/L | 28/09/2021 |
| Selenium | <0.002 | mg/L | 28/09/2021 |
| Sodium | 5140 | mg/L | 28/09/2021 |
| Standing Water Level | 4.10 | metres | 28/09/2021 |
| Vanadium | 0.0025 | mg/L | 28/09/2021 |
| Zinc | 0.012 | mg/L | 28/09/2021 |

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

| Name | Reading | Units | Date |
|-------------------------|----------|----------|------------|
| Aluminium | 0.091 | mg/L | 28/09/2021 |
| Ammonia | 2.97 | mg/L | 28/09/2021 |
| Arsenic (III) | 0.0020 | mg/L | 28/09/2021 |
| Arsenic (V) | 0.0014 | mg/L | 28/09/2021 |
| Cadmium | <0.00005 | mg/L | 28/09/2021 |
| Calcium | 433 | mg/L | 28/09/2021 |
| Chromium (trivalent) | <0.001 | mg/L | 28/09/2021 |
| Chromium (VI) compounds | <0.001 | mg/L | 28/09/2021 |
| Copper | <0.0005 | mg/L | 28/09/2021 |
| Electrical Conductivity | 20000 | uS/cm | 28/09/2021 |
| Iron | 11.6 | mg/L | 28/09/2021 |
| Lead | 0.0001 | mg/L | 28/09/2021 |
| Magnesium | 253 | mg/L | 28/09/2021 |
| Manganese | 0.342 | mg/L | 28/09/2021 |
| Nickel | 0.0011 | mg/L | 28/09/2021 |
| pH | 6.59 | pH units | 28/09/2021 |
| Potassium | 117 | mg/L | 28/09/2021 |
| Selenium | 0.0003 | mg/L | 28/09/2021 |
| Sodium | 3330 | mg/L | 28/09/2021 |
| Standing Water Level | 1.87 | metres | 28/09/2021 |
| Vanadium | 0.0012 | mg/L | 28/09/2021 |
| Zinc | 0.006 | mg/L | 28/09/2021 |

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in October2021

| Name | Reading | Units | Date |
|-------------------------|---------|----------|------|
| Aluminium | - | mg/L | - |
| Ammonia | - | mg/L | - |
| Arsenic (III) | - | mg/L | - |
| Arsenic (V) | - | mg/L | - |
| Cadmium | - | mg/L | - |
| Calcium | - | mg/L | - |
| Chromium (trivalent) | - | mg/L | - |
| Chromium (VI) compounds | - | mg/L | - |
| Copper | - | mg/L | - |
| Electrical Conductivity | - | uS/cm | - |
| Iron | - | mg/L | - |
| Lead | - | mg/L | - |
| Magnesium | - | mg/L | - |
| Manganese | - | mg/L | - |
| Nickel | - | mg/L | - |
| pH | - | pH units | - |
| Potassium | - | mg/L | - |
| Selenium | - | mg/L | - |
| Sodium | - | mg/L | - |
| Standing Water Level | - | metres | - |
| Vanadium | - | mg/L | - |
| Zinc | - | mg/L | - |