



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Morisset NSW 2264

Coal Unloader - EPA Licence 4297

Eraring Coal Delivery Facility, Construction Rd, Dora Creek NSW 2264

Environmental Monitoring Data

February 2015



Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air

| | NOX | | | Particulates | | | SOX | | |
|----------|-------------|------------|------------|--------------|------------|------------|-------------|------------|------------|
| | ppm (7% O2) | | | mg/m3 | | | ppm (7% O2) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 - Feb | 144 | 163 | 127 | 12 | 18 | 9 | 158 | 173 | 147 |
| 2 - Feb | 172 | 194 | 159 | 10 | 16 | 4 | 159 | 168 | 141 |
| 3 - Feb | 188 | 221 | 168 | 8 | 12 | 5 | 185 | 203 | 164 |
| 4 - Feb | 180 | 204 | 162 | 12 | 17 | 10 | 181 | 218 | 154 |
| 5 - Feb | 192 | 234 | 159 | 14 | 21 | 10 | 174 | 218 | 148 |
| 6 - Feb | 178 | 228 | 150 | 16 | 23 | 8 | 189 | 218 | 165 |
| 7 - Feb | 163 | 179 | 142 | 14 | 19 | 10 | 184 | 210 | 163 |
| 8 - Feb | 158 | 200 | 135 | 12 | 18 | 8 | 164 | 178 | 150 |
| 9 - Feb | 172 | 213 | 126 | 9 | 13 | 8 | 173 | 208 | 153 |
| 10 - Feb | 142 | 164 | 126 | 11 | 15 | 8 | 193 | 219 | 183 |
| 11 - Feb | 141 | 154 | 125 | 10 | 14 | 8 | 207 | 219 | 189 |
| 12 - Feb | 145 | 164 | 129 | 10 | 13 | 8 | 207 | 223 | 191 |
| 13 - Feb | 155 | 199 | 124 | 9 | 12 | 8 | 227 | 243 | 214 |
| 14 - Feb | 143 | 172 | 126 | 9 | 13 | 7 | 209 | 231 | 171 |
| 15 - Feb | 154 | 175 | 139 | 10 | 14 | 8 | 200 | 241 | 164 |
| 16 - Feb | 178 | 197 | 145 | 11 | 15 | 9 | 190 | 228 | 164 |
| 17 - Feb | 157 | 176 | 130 | 11 | 15 | 9 | 192 | 229 | 163 |
| 18 - Feb | 134 | 143 | 123 | 10 | 13 | 7 | 175 | 187 | 163 |
| 19 - Feb | 121 | 137 | 115 | 9 | 12 | 7 | 186 | 211 | 155 |
| 20 - Feb | 143 | 159 | 121 | 9 | 13 | 8 | 189 | 206 | 177 |
| 21 - Feb | 146 | 160 | 122 | 8 | 12 | 7 | 185 | 189 | 174 |
| 22 - Feb | 152 | 168 | 133 | 8 | 11 | 7 | 183 | 202 | 171 |
| 23 - Feb | 131 | 154 | 121 | 8 | 12 | 7 | 171 | 183 | 153 |
| 24 - Feb | 124 | 154 | 112 | 9 | 12 | 8 | 180 | 194 | 169 |
| 25 - Feb | 144 | 158 | 119 | 9 | 13 | 8 | 193 | 210 | 177 |
| 26 - Feb | 151 | 167 | 137 | 9 | 11 | 7 | 179 | 197 | 167 |
| 27 - Feb | 157 | 194 | 143 | 9 | 12 | 8 | 197 | 222 | 181 |
| 28 - Feb | 150 | 167 | 126 | 9 | 12 | 7 | 176 | 215 | 161 |

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air

| | NOX | | | Particulates | | | SOX | | |
|----------|-------------|------------|------------|--------------|------------|------------|-------------|------------|------------|
| | ppm (7% O2) | | | mg/m3 | | | ppm (7% O2) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 - Feb | 245 | 272 | 210 | 10 | 12 | 8 | 166 | 177 | 146 |
| 2 - Feb | 199 | 266 | 158 | 7 | 10 | 5 | 161 | 169 | 145 |
| 3 - Feb | 191 | 237 | 153 | 7 | 10 | 5 | 197 | 227 | 165 |
| 4 - Feb | 159 | 207 | 128 | 6 | 10 | 5 | 208 | 224 | 180 |
| 5 - Feb | 149 | 195 | 127 | 7 | 10 | 6 | 210 | 254 | 181 |
| 6 - Feb | 167 | 250 | 117 | 6 | 11 | 3 | 197 | 251 | 169 |
| 7 - Feb | 137 | 148 | 119 | 9 | 14 | 5 | 190 | 227 | 165 |
| 8 - Feb | 143 | 169 | 123 | 6 | 10 | 3 | 170 | 196 | 160 |
| 9 - Feb | 160 | 193 | 127 | 7 | 11 | 4 | 197 | 238 | 175 |
| 10 - Feb | 155 | 228 | 121 | 6 | 10 | 4 | 201 | 247 | 184 |
| 11 - Feb | 135 | 169 | 117 | 8 | 14 | 6 | 212 | 232 | 176 |
| 12 - Feb | 141 | 180 | 117 | 6 | 10 | 5 | 193 | 213 | 175 |
| 13 - Feb | 117 | 131 | 106 | 7 | 9 | 5 | 214 | 231 | 188 |
| 14 - Feb | 146 | 162 | 130 | 6 | 9 | 4 | 207 | 247 | 182 |
| 15 - Feb | 135 | 160 | 116 | 9 | 13 | 7 | 195 | 239 | 165 |
| 16 - Feb | 136 | 174 | 112 | 6 | 10 | 4 | 182 | 197 | 152 |
| 17 - Feb | 183 | 247 | 152 | 7 | 10 | 5 | 194 | 230 | 178 |
| 18 - Feb | 159 | 204 | 137 | 6 | 8 | 4 | 166 | 221 | 132 |
| 19 - Feb | 146 | 173 | 115 | 7 | 9 | 6 | 141 | 152 | 135 |
| 20 - Feb | 160 | 210 | 115 | 5 | 8 | 5 | 177 | 221 | 103 |
| 21 - Feb | 154 | 193 | 120 | 5 | 8 | 4 | 216 | 225 | 200 |
| 22 - Feb | 211 | 276 | 162 | 5 | 7 | 4 | 219 | 230 | 205 |
| 23 - Feb | 168 | 202 | 125 | 5 | 8 | 4 | 207 | 238 | 184 |
| 24 - Feb | 132 | 153 | 104 | 6 | 9 | 5 | 202 | 217 | 183 |
| 25 - Feb | 141 | 174 | 108 | 6 | 9 | 5 | 212 | 229 | 187 |
| 26 - Feb | 142 | 189 | 108 | 5 | 8 | 4 | 192 | 214 | 166 |
| 27 - Feb | 153 | 190 | 116 | 5 | 8 | 4 | 200 | 233 | 177 |
| 28 - Feb | 138 | 184 | 116 | 6 | 9 | 4 | 193 | 213 | 184 |

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air

| | NOX | | | Particulates | | | SOX | | |
|----------|-------------|------------|------------|--------------|------------|------------|-------------|------------|------------|
| | ppm (7% O2) | | | mg/m3 | | | ppm (7% O2) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 - Feb | 233 | 261 | 207 | 4 | 5 | 3 | 251 | 354 | 210 |
| 2 - Feb | 211 | 229 | 193 | 4 | 6 | 4 | 225 | 248 | 209 |
| 3 - Feb | 218 | 240 | 189 | 4 | 5 | 4 | 288 | 354 | 215 |
| 4 - Feb | 216 | 228 | 199 | 3 | 4 | 2 | 300 | 337 | 268 |
| 5 - Feb | 242 | 281 | 207 | 5 | 11 | 2 | 269 | 343 | 239 |
| 6 - Feb | 241 | 281 | 199 | 5 | 8 | 2 | 269 | 331 | 241 |
| 7 - Feb | 239 | 276 | 209 | 3 | 6 | 2 | 234 | 274 | 212 |
| 8 - Feb | 243 | 260 | 216 | 3 | 8 | 2 | 223 | 245 | 199 |
| 9 - Feb | 222 | 258 | 189 | 4 | 6 | 2 | 223 | 302 | 176 |
| 10 - Feb | 220 | 265 | 189 | 5 | 9 | 3 | 249 | 311 | 224 |
| 11 - Feb | 225 | 251 | 185 | 5 | 10 | 3 | 251 | 286 | 211 |
| 12 - Feb | 199 | 238 | 166 | 5 | 9 | 3 | 245 | 267 | 228 |
| 13 - Feb | 208 | 225 | 195 | 4 | 7 | 2 | 256 | 295 | 235 |
| 14 - Feb | 203 | 221 | 189 | 5 | 7 | 4 | 266 | 309 | 230 |
| 15 - Feb | 232 | 262 | 200 | 4 | 6 | 3 | 254 | 300 | 225 |
| 16 - Feb | 242 | 269 | 206 | 5 | 8 | 3 | 253 | 297 | 183 |
| 17 - Feb | 237 | 277 | 195 | 5 | 9 | 3 | 254 | 284 | 224 |
| 18 - Feb | 214 | 274 | 169 | 6 | 9 | 3 | 243 | 271 | 221 |
| 19 - Feb | 226 | 310 | 139 | 8 | 15 | 4 | 254 | 273 | 242 |
| 20 - Feb | 201 | 234 | 148 | 11 | 19 | 4 | 205 | 237 | 190 |
| 21 - Feb | 165 | 179 | 138 | 8 | 15 | 3 | 206 | 214 | 197 |
| 22 - Feb | 179 | 198 | 155 | 3 | 6 | 3 | 192 | 201 | 181 |
| 23 - Feb | 188 | 217 | 171 | 9 | 18 | 3 | 185 | 194 | 173 |
| 24 - Feb | 180 | 205 | 162 | 11 | 20 | 8 | 191 | 203 | 182 |
| 25 - Feb | 186 | 223 | 156 | 15 | 24 | 9 | 210 | 221 | 191 |
| 26 - Feb | 182 | 217 | 128 | 18 | 26 | 10 | 191 | 203 | 184 |
| 27 - Feb | 183 | 232 | 129 | 22 | 34 | 8 | 202 | 218 | 189 |
| 28 - Feb | 163 | 215 | 136 | 4 | 5 | 3 | 192 | 213 | 178 |

Unit 4 Boiler Continuous Emission Monitoring Summary

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

| | NOX | | | Particulates | | | SOX | | |
|----------|-------------|------------|------------|--------------|------------|------------|-------------|------------|------------|
| | ppm (7% O2) | | | mg/m3 | | | ppm (7% O2) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 - Feb | 150 | 175 | 103 | 4 | 7 | 3 | 142 | 163 | 130 |
| 2 - Feb | 166 | 184 | 147 | 4 | 6 | 3 | 141 | 157 | 129 |
| 3 - Feb | 186 | 257 | 149 | 4 | 8 | 3 | 163 | 189 | 125 |
| 4 - Feb | 242 | 320 | 209 | 5 | 8 | 4 | 176 | 218 | 149 |
| 5 - Feb | 234 | 249 | 219 | 5 | 9 | 3 | 159 | 199 | 130 |
| 6 - Feb | 236 | 301 | 190 | 5 | 9 | 3 | 185 | 199 | 171 |
| 7 - Feb | 223 | 249 | 199 | 4 | 7 | 3 | 181 | 211 | 153 |
| 8 - Feb | 213 | 246 | 139 | 4 | 8 | 2 | 151 | 160 | 141 |
| 9 - Feb | 184 | 224 | 143 | 4 | 7 | 3 | 166 | 213 | 144 |
| 10 - Feb | 201 | 229 | 168 | 4 | 7 | 3 | 185 | 221 | 174 |
| 11 - Feb | 196 | 247 | 146 | 4 | 9 | 3 | 190 | 226 | 158 |
| 12 - Feb | 226 | 296 | 169 | 4 | 9 | 3 | 172 | 187 | 157 |
| 13 - Feb | 197 | 242 | 171 | 4 | 8 | 3 | 190 | 220 | 154 |
| 14 - Feb | 184 | 204 | 172 | 3 | 6 | 3 | 190 | 209 | 170 |
| 15 - Feb | 196 | 217 | 179 | 4 | 7 | 3 | 189 | 229 | 164 |
| 16 - Feb | 209 | 244 | 163 | 4 | 9 | 3 | 168 | 184 | 138 |
| 17 - Feb | 199 | 224 | 166 | 5 | 11 | 3 | 179 | 205 | 154 |
| 18 - Feb | 177 | 227 | 136 | 5 | 8 | 3 | 158 | 178 | 153 |
| 19 - Feb | 182 | 250 | 130 | 5 | 9 | 3 | 164 | 177 | 156 |
| 20 - Feb | 166 | 207 | 116 | 5 | 10 | 3 | 173 | 195 | 151 |
| 21 - Feb | 141 | 157 | 117 | 4 | 8 | 3 | 164 | 173 | 155 |
| 22 - Feb | 139 | 164 | 112 | 3 | 5 | 3 | 150 | 160 | 140 |
| 23 - Feb | 159 | 188 | 112 | 4 | 7 | 3 | 153 | 163 | 140 |
| 24 - Feb | 135 | 149 | 111 | 4 | 9 | 3 | 161 | 174 | 144 |
| 25 - Feb | 154 | 190 | 113 | 4 | 9 | 2 | 170 | 196 | 149 |
| 26 - Feb | 166 | 195 | 128 | 4 | 8 | 2 | 163 | 181 | 147 |
| 27 - Feb | 161 | 200 | 128 | 5 | 10 | 3 | 167 | 196 | 144 |
| 28 - Feb | 139 | 182 | 117 | 4 | 9 | 3 | 153 | 164 | 140 |

Unit 1 Boiler Emission Test Results

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|------------------------------------------|----------------|--------------|----------------------|-------------|
| Cadmium | 0.0012 | mg/m3 | 0.20 | 23/02/2014 |
| Carbon Dioxide (Wet) | 10.2 | % | - | 23/02/2014 |
| Carbon Monoxide | 2.9 | mg/m3 | - | 23/02/2014 |
| Chlorine | 0.020 | mg/m3 | 300 | 23/02/2014 |
| Copper | 0.0013 | mg/m3 | - | 23/02/2014 |
| Dry Gas Density | 0.93 | kg/m3 | - | 23/02/2014 |
| Fluoride As HF - Total | 6.4 | mg/m3 | 50 | 23/02/2014 |
| Hazardous Substances (Metals) - Total | 0.07 | mg/m3 | 1.00 | 23/02/2014 |
| Hydrogen Chloride | 3.1 | mg/m3 | 100.0 | 23/02/2014 |
| Mercury | 0.0011 | mg/m3 | 0.200 | 23/02/2014 |
| Moisture | 7.1 | % | - | 23/02/2014 |
| Particulates - Total | 7.3 | mg/m3 | 50 | 23/02/2014 |
| Stack Gas Molecular Weight | 29 | kg/k-mole | - | 23/02/2014 |
| Temperature | 109.0 | degC | - | 23/02/2014 |
| Velocity | 11.8 | m/sec | - | 23/02/2014 |
| Volatile Organic Compounds (VOC) - Total | 4.7 | mg/m3 | - | 23/02/2014 |
| Volumetric Flow Rate (Dry At STP) | 283 | m3/sec | - | 23/02/2014 |

Unit 2 Boiler Emission Test Results

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|------------------------------------------|----------------|--------------|----------------------|-------------|
| Cadmium | 0.0009 | mg/m3 | 0.20 | 24/08/2014 |
| Carbon Dioxide (Wet) | 7.7 | % | - | 24/08/2014 |
| Carbon Monoxide | 0.90 | mg/m3 | - | 06/05/2013 |
| Chlorine | 1.8 | mg/m3 | 300 | 24/08/2014 |
| Copper | 0.0009 | mg/m3 | - | 24/08/2014 |
| Dry Gas Density | 1.4 | kg/m3 | - | 24/08/2014 |
| Fluoride As HF - Total | 7.0 | mg/m3 | 50 | 24/08/2014 |
| Hazardous Substances (Metals) - Total | 0.014 | mg/m3 | 1.00 | 24/08/2014 |
| Hydrogen Chloride | 1.8 | mg/m3 | 100.0 | 24/08/2014 |
| Mercury | 0.00000 | mg/m3 | 0.200 | 24/08/2014 |
| Moisture | 4.9 | % | - | 24/08/2014 |
| Particulates - Total | 13.0 | mg/m3 | 50 | 24/08/2014 |
| Stack Gas Molecular Weight | 30 | kg/k-mole | - | 24/08/2014 |
| Temperature | 113.0 | degC | - | 24/08/2014 |
| Velocity | 10.5 | m/sec | - | 24/08/2014 |
| Volatile Organic Compounds (VOC) - Total | 0.08 | mg/m3 | - | 24/08/2014 |
| Volumetric Flow Rate (Dry At STP) | 255 | m3/sec | - | 24/08/2014 |

Unit 3 Boiler Emission Test Results

EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|------------------------------------------|----------------|--------------|----------------------|-------------|
| Cadmium | 0.0011 | mg/m3 | 0.20 | 05/08/2013 |
| Carbon Dioxide (Wet) | 10.3 | % | - | 05/08/2013 |
| Carbon Monoxide | 9.9 | mg/m3 | - | 05/08/2013 |
| Chlorine | 0.30 | mg/m3 | 200 | 05/08/2013 |
| Copper | 0.0011 | mg/m3 | - | 05/08/2013 |
| Dry Gas Density | 0.94 | kg/m3 | - | 05/08/2013 |
| Fluoride As HF - Total | 9.6 | mg/m3 | 50 | 05/08/2013 |
| Hazardous Substances (Metals) - Total | 0.06 | mg/m3 | 1.00 | 05/08/2013 |
| Hydrogen Chloride | 4.1 | mg/m3 | 100.0 | 05/08/2013 |
| Mercury | 0.0007 | mg/m3 | 0.200 | 05/08/2013 |
| Moisture | 6.7 | % | - | 05/08/2013 |
| Particulates - Total | 15.0 | mg/m3 | 50 | 05/08/2013 |
| Stack Gas Molecular Weight | 29 | kg/k-mole | - | 05/08/2013 |
| Temperature | 103.0 | degC | - | 05/08/2013 |
| Velocity | 11.1 | m/sec | - | 05/08/2013 |
| Volatile Organic Compounds (VOC) - Total | 5.7 | mg/m3 | - | 05/08/2013 |
| Volumetric Flow Rate (Dry At STP) | 270 | m3/sec | - | 05/08/2013 |

Unit 4 Boiler Emission Test Results

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

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|------------------------------------------|----------------|--------------|----------------------|-------------|
| Cadmium | 0.0010 | mg/m3 | 0.20 | 13/10/2013 |
| Carbon Dioxide (Wet) | 9.4 | % | - | 13/10/2013 |
| Carbon Monoxide | 9.3 | mg/m3 | - | 13/10/2013 |
| Chlorine | 0.040 | mg/m3 | 200 | 13/10/2013 |
| Copper | 0.0010 | mg/m3 | - | 13/10/2013 |
| Dry Gas Density | 0.94 | kg/m3 | - | 13/10/2013 |
| Fluoride As HF - Total | 7.5 | mg/m3 | 50 | 13/10/2013 |
| Hazardous Substances (Metals) - Total | 0.027 | mg/m3 | 1.00 | 13/10/2013 |
| Hydrogen Chloride | 2.8 | mg/m3 | 100.0 | 13/10/2013 |
| Mercury | 0.0022 | mg/m3 | 0.200 | 13/10/2013 |
| Moisture | 6.5 | % | - | 13/10/2013 |
| Particulates - Total | 7.9 | mg/m3 | 50 | 13/10/2013 |
| Stack Gas Molecular Weight | 29 | kg/k-mole | - | 13/10/2013 |
| Temperature | 104.0 | degC | - | 13/10/2013 |
| Velocity | 15.4 | m/sec | - | 13/10/2013 |
| Volatile Organic Compounds (VOC) - Total | 4.7 | mg/m3 | - | 13/10/2013 |
| Volumetric Flow Rate (Dry At STP) | 375 | m3/sec | - | 13/10/2013 |

Eraring Coal Unloader Dust Gauges

EPA Identification no. 18 - Depositional dust monitoring within 1 km of the coal handling operations

| | Deposited Matter | | |
|-----------|------------------|-------------|------------|
| | g/m2/month | | |
| | Ash | Combustible | Insolubles |
| U1 | 0.40 | 0.50 | 0.90 |
| U2 | 0.60 | 0.50 | 1.10 |
| U3 | 0.30 | 0.40 | 0.70 |
| U4 | 0.40 | 0.40 | 0.80 |
| U5 | 0.20 | 0.60 | 0.80 |
| U6 | 0.20 | 0.40 | 0.60 |

Eraring Due Diligence Dust Gauges

EPA Identification no. 18 - Depositional dust monitoring within 1 km of the coal handling operations

| | Deposited Matter | | |
|-----------|------------------|-------------|------------|
| | g/m2/month | | |
| | Ash | Combustible | Insolubles |
| E1 | 0.30 | 0.40 | 0.70 |
| E2 | 0.20 | 0.30 | 0.50 |
| E3 | 0.20 | 0.20 | 0.40 |
| E4 | 0.30 | 0.20 | 0.50 |
| E5 | 0.40 | 0.20 | 0.60 |
| E6 | 0.30 | 0.40 | 0.70 |

Water Quality - Lake Monitoring LM10

EPA Identification no. 4 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

| | Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|-----------|-------|------|----------|------------------|------|--------|
| | degC | | ppt | % | mg/L | m |
| Depth/Air | 26.64 | | | | | |
| 010cm | 25.24 | 8.10 | 34.50 | 119.90 | 7.89 | 1.75 |
| 050cm | 25.14 | 8.10 | 34.60 | 91.00 | 5.97 | |
| 100cm | 25.13 | 8.11 | 34.70 | 87.40 | 5.58 | |
| 150cm | 25.13 | 8.11 | 34.70 | 84.20 | 5.43 | |
| 200cm | 25.01 | 8.10 | 34.80 | 79.10 | 5.27 | |
| 250cm | 24.92 | 8.11 | 34.90 | 81.30 | 5.40 | |
| Bottom | 24.89 | 8.09 | 35.00 | 79.10 | 5.18 | |

Water Quality - Lake Monitoring LM12

EPA Identification no. 6 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

| | Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|-----------|-------|------|----------|------------------|-------|--------|
| | degC | | ppt | % | mg/L | m |
| Depth/Air | 26.95 | | | | | |
| 010cm | 24.87 | 8.12 | 33.60 | 101.20 | 6.74 | 2.25 |
| 050cm | 25.05 | 8.13 | 33.60 | 110.60 | 7.26 | |
| 100cm | 25.13 | 8.13 | 35.20 | 115.70 | 7.61 | |
| 150cm | 25.13 | 8.13 | 35.20 | 120.40 | 7.92 | |
| 200cm | 25.12 | 8.12 | 35.30 | 124.70 | 8.19 | |
| 250cm | 25.10 | 8.14 | 35.30 | 127.90 | 8.41 | |
| 300cm | 25.08 | 8.12 | 35.30 | 132.60 | 8.73 | |
| 350cm | 25.04 | 8.12 | 35.30 | 137.10 | 9.03 | |
| 400cm | 25.02 | 8.12 | 35.00 | 142.20 | 9.38 | |
| 450cm | 25.01 | 8.12 | 35.00 | 147.50 | 9.72 | |
| 500cm | 25.00 | 8.11 | 35.10 | 151.00 | 9.95 | |
| 550cm | 24.95 | 8.11 | 35.10 | 155.70 | 10.27 | |
| 600cm | 24.93 | 8.11 | 35.10 | 159.10 | 10.50 | |
| 650cm | 24.89 | 8.10 | 35.20 | 161.70 | 10.66 | |
| 700cm | 24.86 | 8.10 | 35.30 | 164.60 | 10.87 | |
| Bottom | 24.83 | 8.08 | 35.40 | 80.60 | 5.28 | |

Water Quality - Lake Monitoring LM4

EPA Identification no. 7 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

| | Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|-----------|-------|------|----------|------------------|------|--------|
| | degC | | ppt | % | mg/L | m |
| Depth/Air | 19.31 | | | | | |
| 010cm | 23.03 | 8.13 | 33.00 | 107.90 | 7.47 | 4.75 |
| 050cm | 23.19 | 8.13 | 33.00 | 113.30 | 7.78 | |
| 100cm | 23.26 | 8.13 | 33.10 | 118.60 | 8.15 | |
| 150cm | 23.25 | 8.13 | 33.80 | 124.30 | 8.50 | |
| 200cm | 23.26 | 8.12 | 33.90 | 128.80 | 8.80 | |
| 250cm | 23.30 | 8.14 | 34.00 | 133.60 | 9.12 | |
| 300cm | 23.28 | 8.13 | 33.60 | 95.00 | 6.52 | |
| 350cm | 23.35 | 8.13 | 34.50 | 92.80 | 6.33 | |
| 400cm | 23.37 | 8.13 | 34.60 | 94.90 | 6.45 | |
| 450cm | 23.36 | 8.13 | 34.60 | 94.60 | 6.37 | |
| 500cm | 23.46 | 8.13 | 34.70 | 94.10 | 6.35 | |
| 550cm | 23.47 | 8.12 | 34.70 | 94.20 | 6.39 | |
| 600cm | 23.48 | 8.12 | 34.80 | 91.80 | 6.29 | |
| 650cm | 23.52 | 8.12 | 34.80 | 95.90 | 6.48 | |
| 700cm | 23.64 | 8.11 | 34.90 | 94.00 | 6.33 | |
| 750cm | 23.68 | 8.12 | 35.00 | 94.20 | 6.34 | |
| 800cm | 23.70 | 8.12 | 35.10 | 91.40 | 6.15 | |
| 850cm | 23.71 | 8.12 | 35.20 | 88.00 | 5.90 | |
| 900cm | 23.72 | 8.12 | 35.20 | 87.30 | 5.81 | |
| 950cm | 23.76 | 8.12 | 35.40 | 84.90 | 8.71 | |
| Bottom | 23.73 | 8.10 | 35.40 | 73.80 | 5.21 | |

Water Quality - Lake Monitoring LM7

EPA Identification no. 5 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

| | Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|-----------|-------|------|----------|------------------|------|--------|
| | degC | | ppt | % | mg/L | m |
| Depth/Air | 22.63 | | | | | |
| 010cm | 27.34 | 8.08 | 34.30 | 119.00 | 7.60 | 2.25 |
| 050cm | 27.35 | 8.09 | 34.20 | 106.20 | 6.76 | |
| 100cm | 27.38 | 8.08 | 34.30 | 105.90 | 6.75 | |
| 150cm | 27.41 | 8.10 | 34.30 | 105.70 | 6.74 | |
| 200cm | 27.28 | 8.10 | 34.30 | 101.60 | 6.54 | |
| 250cm | 27.21 | 8.09 | 34.40 | 105.20 | 6.77 | |
| 300cm | 26.58 | 8.09 | 34.40 | 105.10 | 6.76 | |
| 350cm | 26.35 | 8.10 | 34.40 | 103.70 | 6.73 | |
| 400cm | 26.19 | 8.10 | 34.40 | 100.10 | 6.45 | |
| 450cm | 25.16 | 8.13 | 34.40 | 95.90 | 6.34 | |
| 500cm | 25.10 | 8.12 | 34.60 | 93.70 | 6.17 | |
| 550cm | 25.12 | 8.11 | 34.80 | 91.70 | 6.03 | |
| Bottom | 24.95 | 8.03 | 34.90 | 85.60 | 5.67 | |

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 10 - Discharge point below siphon pond weir at Ash Dam

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|----------------------------------|----------------|--------------|----------------------|-------------|
| Cadmium | 0.08 | ug/L | - | 02/02/2015 |
| Copper | 4.8 | ug/L | - | 02/02/2015 |
| Iron | 5.0 | ug/L | - | 02/02/2015 |
| Lead | 0.10 | ug/L | - | 02/02/2015 |
| Manganese | 11.7 | ug/L | - | 02/02/2015 |
| Nitrite and Nitrate as N | 19.0 | ug/L | - | 02/02/2015 |
| Phosphorus Reactive as P - Total | 48 | ug/L | - | 02/02/2015 |
| Phosphorus as P - Total | 124 | ug/L | - | 02/02/2015 |
| Selenium | 31 | ug/L | - | 02/02/2015 |
| Suspended Solids (SS) | 5.0 | mg/L | - | 02/02/2015 |
| Zinc | 5.0 | ug/L | - | 02/02/2015 |
| pH | 9.2 | - | - | 02/02/2015 |

Eraring Cooling Water Inlet Canal

EPA Identification no. 8 - Inlet canal of the cooling water intake from Lake Macquarie

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|-----------------------|----------------|--------------|----------------------|-------------|
| Copper | 1.00 | ug/L | - | 02/02/2015 |
| Iron | 8.0 | ug/L | - | 02/02/2015 |
| Selenium | 1.00 | ug/L | - | 02/02/2015 |
| Temperature - Average | 25.4 | deg C | - | Feb 2015 |
| Temperature - Minimum | 23.3 | deg C | - | Feb 2015 |
| Temperature - Maximum | 27.3 | deg C | - | Feb 2015 |

Eraring Cooling Water Outlet Canal

EPA Identification no. 1 - Cooling water outlet canal to Myuna Bay

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|--------------------------------------|----------------|--------------|----------------------|-------------|
| Copper | 2.00 | ug/L | 5 | 02/02/2015 |
| Iron | 12.0 | ug/L | 300 | 02/02/2015 |
| Selenium | 1.00 | ug/L | 2 | 02/02/2015 |
| Temperature - Average | 32.3 | deg C | 35 | Feb 2015 |
| Temperature - Minimum | 28.5 | deg C | 35 | Feb 2015 |
| Temperature - Maximum | 35.2 | deg C | 35 | Feb 2015 |
| Maximum Daily Discharge from Ash Dam | 15.3 | ML | 150000 | Feb 2015 |
| Monthly Discharge from Ash Dam | 361 | ML | - | Feb 2015 |

Emergency Discharge - Toe Drain Pond

EPA Identification no. 17 - Emergency discharge to toe drain collection pond

| <u>Name</u> | <u>Reading</u> | <u>Units</u> | <u>Licence Limit</u> | <u>Date</u> |
|--------------------------|----------------|--------------|----------------------|-------------|
| Nitrite and Nitrate as N | 13.0 | ug/L | - | 02/02/2015 |
| Phosphorus as P - Total | 271 | ug/L | - | 02/02/2015 |
| pH | 6.7 | - | - | 02/02/2015 |