

**RIX'S CREEK MINE**  
**SURFACE WATER MONITORING**  
**Year ending March 2025 RESULTS**

**License Number:** 3391  
**Licensee:** RIX'S CREEK PTY. LIMITED  
PO BOX 4  
EAST MAITLAND NSW 2323  
**Date Updated:** 5/11/2024

**Premises:** RIX'S CREEK COLLIERY  
RIX'S CREEK LANE  
SINGLETON NSW 2330

**Monitoring Frequency:** Monthly  
**Sampling method:** Grab sample  
**Limits:** Nil



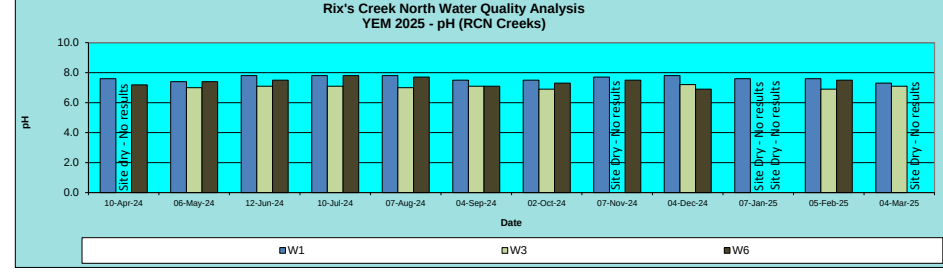
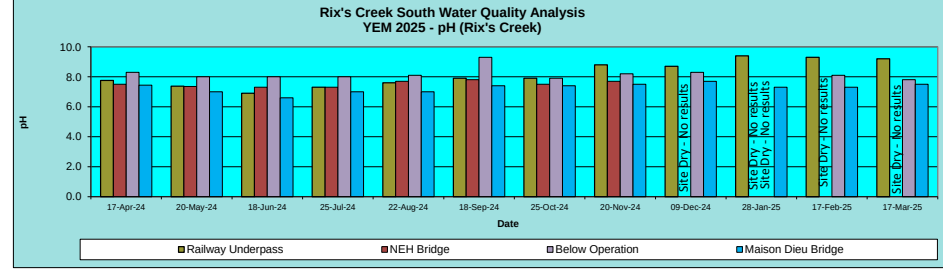
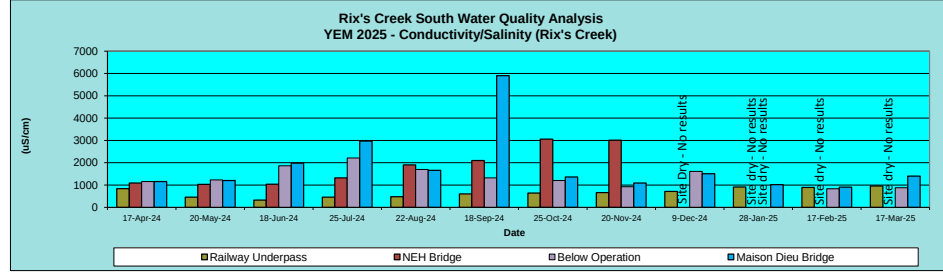
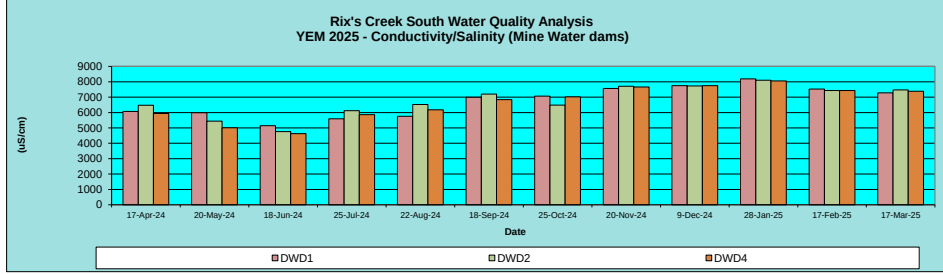
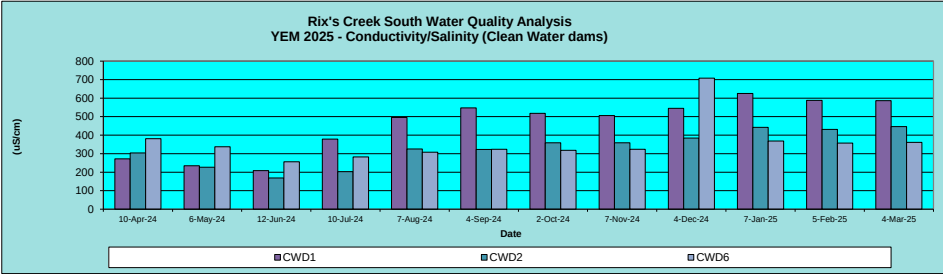
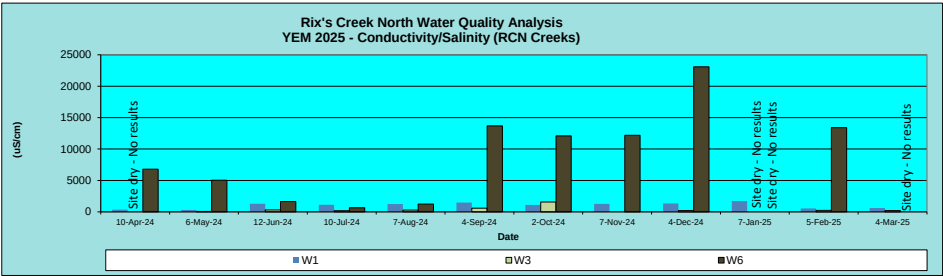
|                |                     |                        |       | Published:<br>Sampled:<br>Obtained: | 1 May 2024<br>17 April 2024<br>24 April 2024 | 18 June 2024<br>20 May 2024<br>17 June 2027 | 1 July 2024<br>18 June 2024<br>26 June 2024 | 8 August 2024<br>25 July 2024<br>2 August 2024 | 2 September 2024<br>22 August 2024<br>30 August 2024 | 1 October 2024<br>18 September 2024<br>26 September 2024 |
|----------------|---------------------|------------------------|-------|-------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| Sampling Point | Monitoring Location | Pollutant              | Unit  |                                     | April Measurement                            | May Measurement                             | June Measurement                            | July Measurement                               | August Measurement                                   | September Measurement                                    |
| 1              | Railway Underpass   | pH                     | pH    |                                     | 7.8                                          | 7.4                                         | 6.9                                         | 7.3                                            | 7.6                                                  | 7.9                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 13                                           | 29                                          | 15                                          | 5                                              | 5                                                    | 5                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 500                                          | 398                                         | 215                                         | 282                                            | 476                                                  | 318                                                      |
|                |                     | Conductivity           | uS/cm |                                     | 839                                          | 457                                         | 323                                         | 457                                            | 476                                                  | 602                                                      |
| 2              | NEH Bridge          | pH                     | pH    |                                     | 7.5                                          | 7.4                                         | 7.3                                         | 7.3                                            | 7.7                                                  | 7.8                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 19                                           | 6                                           | 7                                           | 5                                              | 8                                                    | 7                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 640                                          | 585                                         | 584                                         | 721                                            | 1030                                                 | 1130                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 1090                                         | 1030                                        | 1040                                        | 1320                                           | 1900                                                 | 2100                                                     |
| 10             | Below Operation     | pH                     | pH    |                                     | 8.3                                          | 8.0                                         | 8.0                                         | 8.0                                            | 8.1                                                  | 9.3                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 5                                            | 23                                          | 9                                           | 17                                             | 7                                                    | 8                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 620                                          | 902                                         | 1070                                        | 1200                                           | 991                                                  | 670                                                      |
|                |                     | Conductivity           | uS/cm |                                     | 1160                                         | 1230                                        | 1860                                        | 2210                                           | 1700                                                 | 1320                                                     |
| 3              | Maison Dieu Bridge  | pH                     | pH    |                                     | 7.6                                          | 7.2                                         | 7.2                                         | 7.2                                            | 7.4                                                  | 7.5                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 37                                           | 27                                          | 24                                          | 12                                             | 18                                                   | 6                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 714                                          | 711                                         | 1100                                        | 1690                                           | 932                                                  | 3290                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 1160                                         | 1200                                        | 1980                                        | 2970                                           | 1660                                                 | 5900                                                     |
| 4              | CWD1                | pH                     | pH    |                                     | 7.5                                          | 7.1                                         | 6.8                                         | 7.1                                            | 7.2                                                  | 7.5                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 16                                           | 22                                          | 7                                           | 6                                              | 13                                                   | 12                                                       |
|                |                     | Total dissolved solids | mg/l  |                                     | 212                                          | 248                                         | 261                                         | 310                                            | 386                                                  | 312                                                      |
|                |                     | Conductivity           | uS/cm |                                     | 272                                          | 235                                         | 208                                         | 379                                            | 496                                                  | 547                                                      |
| 5              | CWD2                | pH                     | pH    |                                     | 7.4                                          | 7.0                                         | 6.6                                         | 7.0                                            | 7.0                                                  | 7.4                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 8                                            | 8                                           | 5                                           | 7                                              | 8                                                    | 21                                                       |
|                |                     | Total dissolved solids | mg/l  |                                     | 216                                          | 190                                         | 194                                         | 217                                            | 269                                                  | 229                                                      |
|                |                     | Conductivity           | uS/cm |                                     | 304                                          | 227                                         | 169                                         | 203                                            | 325                                                  | 323                                                      |
| 7              | CWD6                | pH                     | pH    |                                     | 8.6                                          | 7.1                                         | 7.0                                         | 7.1                                            | 7.5                                                  | 7.5                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 10                                           | 9                                           | 10                                          | 5                                              | 7                                                    | 14                                                       |
|                |                     | Total dissolved solids | mg/l  |                                     | 250                                          | 236                                         | 218                                         | 240                                            | 265                                                  | 240                                                      |
|                |                     | Conductivity           | uS/cm |                                     | 381                                          | 337                                         | 256                                         | 282                                            | 308                                                  | 324                                                      |
| 8              | DWD1                | pH                     | pH    |                                     | 8.7                                          | 8.6                                         | 8.4                                         | 8.4                                            | 8.7                                                  | 8.5                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 11                                           | 5                                           | 5                                           | 5                                              | 5                                                    | 5                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 3740                                         | 3480                                        | 2960                                        | 3470                                           | 3320                                                 | 4430                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 6070                                         | 5990                                        | 5140                                        | 5590                                           | 5760                                                 | 6990                                                     |
| 9              | DWD2                | pH                     | pH    |                                     | 8.6                                          | 8.6                                         | 8.6                                         | 8.3                                            | 8.6                                                  | 8.4                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 21                                           | 14                                          | 38                                          | 875                                            | 27                                                   | 24                                                       |
|                |                     | Total dissolved solids | mg/l  |                                     | 3860                                         | 3240                                        | 3000                                        | 3880                                           | 4220                                                 | 4690                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 6470                                         | 5440                                        | 4760                                        | 6120                                           | 6520                                                 | 7200                                                     |
| 6              | DWD4                | pH                     | pH    |                                     | 8.9                                          | 8.9                                         | 8.7                                         | 8.4                                            | 8.6                                                  | 8.4                                                      |
|                |                     | Total suspended solids | mg/l  |                                     | 15                                           | 25                                          | 141                                         | 12                                             | 5                                                    | 7                                                        |
|                |                     | Total dissolved solids | mg/l  |                                     | 3690                                         | 2990                                        | 2830                                        | 3650                                           | 3860                                                 | 4360                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 5940                                         | 5010                                        | 4630                                        | 5860                                           | 6180                                                 | 6840                                                     |

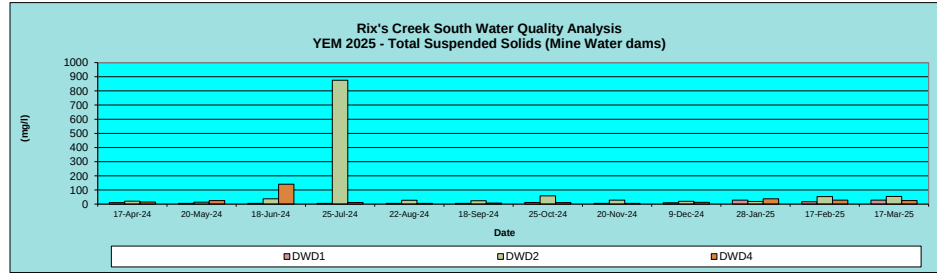
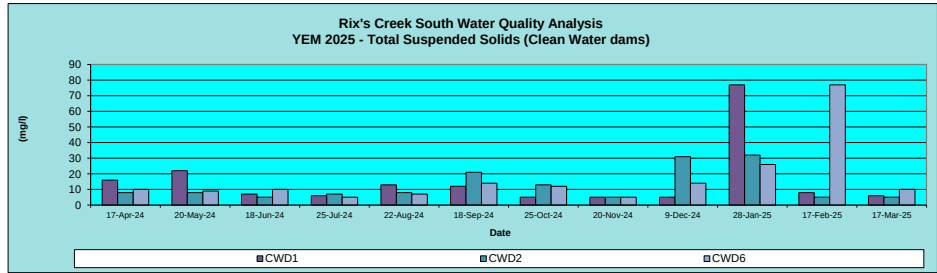
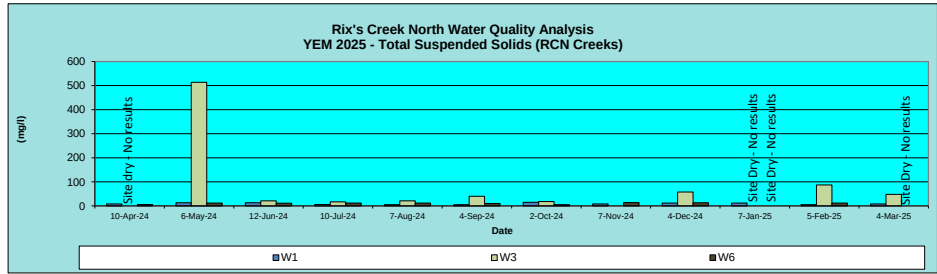
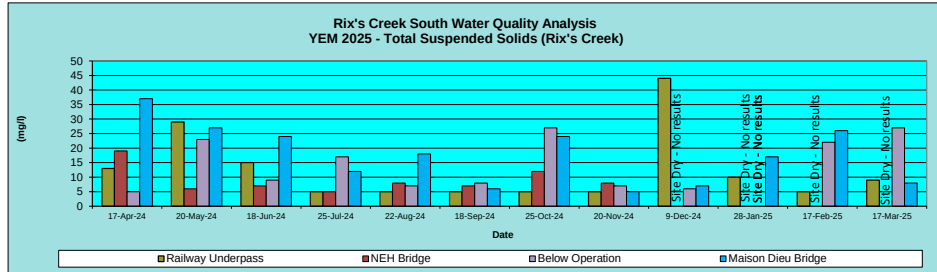
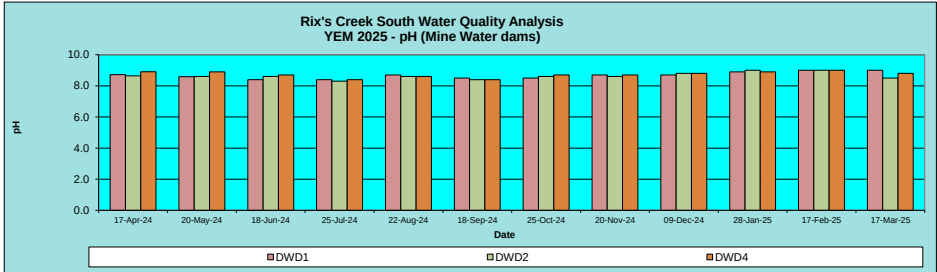
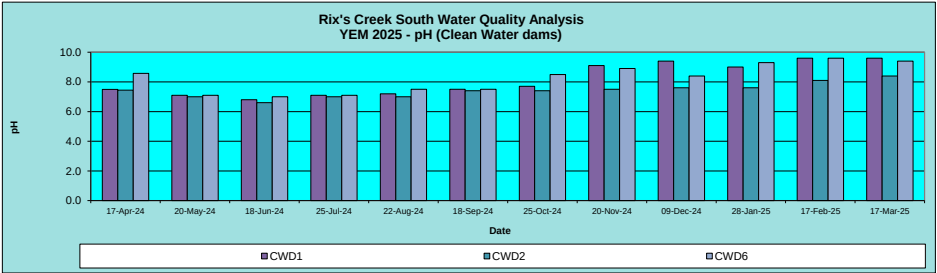
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|----------------|---------------------|------------------------|-------|-------------------------------------|----------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|
| Sampling Point | Monitoring Location | Pollutant              | Unit  |                                     | April Measurement                            | May Measurement                           | June Measurement                            | July Measurement                              | August Measurement                                  | September Measurement                                   |
| 11             | W1                  | pH                     | pH    |                                     | 7.6                                          | 7.4                                       | 7.8                                         | 7.8                                           | 7.8                                                 | 7.5                                                     |
|                |                     | Total suspended solids | mg/l  |                                     | 8                                            | 13                                        | 13                                          | 6                                             | 5                                                   | 5                                                       |
|                |                     | Total dissolved solids | mg/l  |                                     | 282                                          | 275                                       | 843                                         | 663                                           | 859                                                 | 804                                                     |
|                |                     | Conductivity           | uS/cm |                                     | 345                                          | 306                                       | 1290                                        | 1120                                          | 1240                                                | 1470                                                    |
| 12             | W3                  | pH                     | pH    |                                     |                                              | 7.0                                       | 7.1                                         | 7.1                                           | 7.0                                                 | 7.1                                                     |
|                |                     | Total suspended solids | mg/l  |                                     |                                              | 514                                       | 21                                          | 17                                            | 21                                                  | 40                                                      |
|                |                     | Total dissolved solids | mg/l  |                                     |                                              | 758                                       | 311                                         | 329                                           | 344                                                 | 451                                                     |
|                |                     | Conductivity           | uS/cm |                                     |                                              | 68                                        | 316                                         | 200                                           | 290                                                 | 596                                                     |
| 13             | W6                  | pH                     | pH    |                                     | 7.2                                          | 7.4                                       | 7.5                                         | 7.8                                           | 7.7                                                 | 7.1                                                     |
|                |                     | Total suspended solids | mg/l  |                                     | 6                                            | 12                                        | 11                                          | 12                                            | 12                                                  | 10                                                      |
|                |                     | Total dissolved solids | mg/l  |                                     | 4720                                         | 3210                                      | 962                                         | 559                                           | 854                                                 | 7860                                                    |
|                |                     | Conductivity           | uS/cm |                                     | 6810                                         | 5040                                      | 1650                                        | 671                                           | 1240                                                | 13700                                                   |

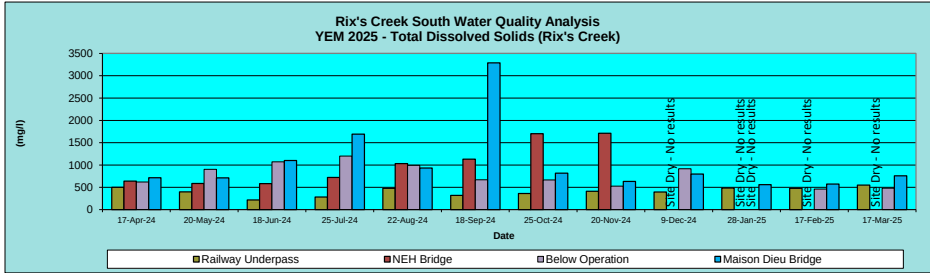
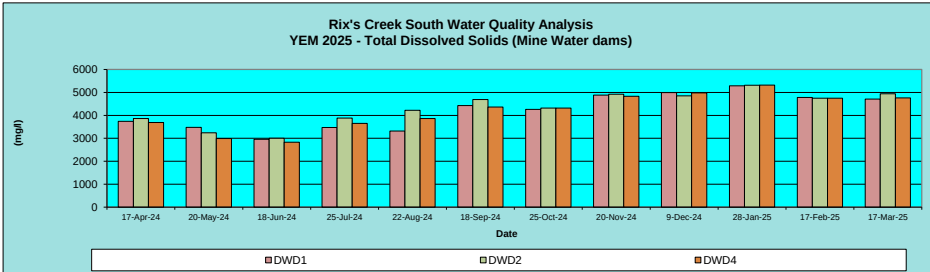
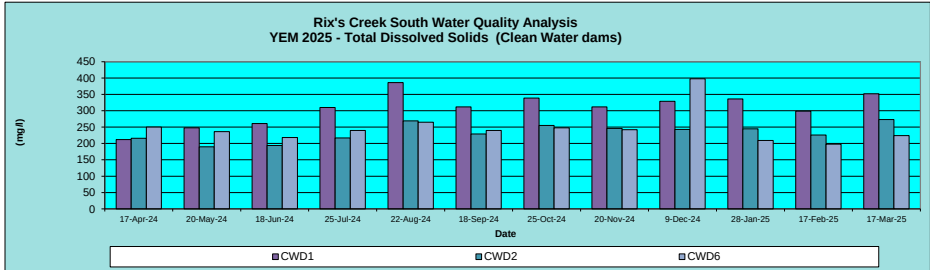
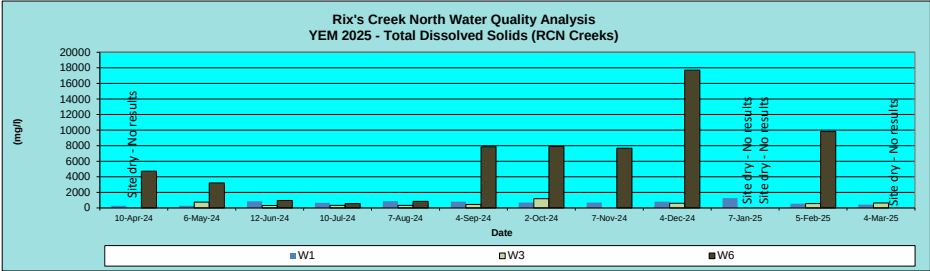
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|-------------------------------------|---------------------|------------------------|-------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------|
| Sampling Point                      | Monitoring Location | Pollutant              | Unit  | October Measurement                                   | November Measurement                                    | December Measurement                                  | January Measurement                                     | February Measurement                                  | March Measurement                              |
| 1                                   | Railway Underpass   | pH                     | pH    | 7.9                                                   | 8.8                                                     | 8.7                                                   | 9.4                                                     | 9.3                                                   | 9.2                                            |
|                                     |                     | Total suspended solids | mg/l  | 5                                                     | 5                                                       | 44                                                    | 10                                                      | 5                                                     | 9                                              |
|                                     |                     | Total dissolved solids | mg/l  | 360                                                   | 410                                                     | 393                                                   | 485                                                     | 477                                                   | 550                                            |
|                                     |                     | Conductivity           | uS/cm | 640                                                   | 664                                                     | 712                                                   | 910                                                     | 893                                                   | 959                                            |
| 2                                   | NEH Bridge          | pH                     | pH    | 7.5                                                   | 7.7                                                     |                                                       |                                                         |                                                       |                                                |
|                                     |                     | Total suspended solids | mg/l  | 12                                                    | 8                                                       |                                                       |                                                         |                                                       |                                                |
|                                     |                     | Total dissolved solids | mg/l  | 1700                                                  | 1710                                                    |                                                       |                                                         |                                                       |                                                |
|                                     |                     | Conductivity           | uS/cm | 3060                                                  | 3010                                                    |                                                       |                                                         |                                                       |                                                |
| 10                                  | Below Operation     | pH                     | pH    | 7.9                                                   | 8.2                                                     | 8.3                                                   |                                                         | 8.1                                                   | 7.8                                            |
|                                     |                     | Total suspended solids | mg/l  | 27                                                    | 7                                                       | 6                                                     |                                                         | 22                                                    | 27                                             |
|                                     |                     | Total dissolved solids | mg/l  | 666                                                   | 525                                                     | 916                                                   |                                                         | 461                                                   | 480                                            |
|                                     |                     | Conductivity           | uS/cm | 1200                                                  | 924                                                     | 1610                                                  |                                                         | 836                                                   | 877                                            |
| 3                                   | Maison Dieu Bridge  | pH                     | pH    | 7.4                                                   | 7.5                                                     | 7.7                                                   | 7.3                                                     | 7.3                                                   | 7.5                                            |
|                                     |                     | Total suspended solids | mg/l  | 24                                                    | 5                                                       | 7                                                     | 17                                                      | 26                                                    | 8                                              |
|                                     |                     | Total dissolved solids | mg/l  | 818                                                   | 633                                                     | 798                                                   | 559                                                     | 572                                                   | 757                                            |
|                                     |                     | Conductivity           | uS/cm | 1360                                                  | 1090                                                    | 1510                                                  | 1020                                                    | 909                                                   | 1400                                           |
| 4                                   | CWD1                | pH                     | pH    | 7.7                                                   | 9.1                                                     | 9.4                                                   | 9.0                                                     | 9.6                                                   | 9.6                                            |
|                                     |                     | Total suspended solids | mg/l  | 5                                                     | 5                                                       | 5                                                     | 77                                                      | 8                                                     | 6                                              |
|                                     |                     | Total dissolved solids | mg/l  | 339                                                   | 312                                                     | 329                                                   | 336                                                     | 299                                                   | 352                                            |
|                                     |                     | Conductivity           | uS/cm | 518                                                   | 506                                                     | 545                                                   | 625                                                     | 588                                                   | 586                                            |
| 5                                   | CWD2                | pH                     | pH    | 7.4                                                   | 7.5                                                     | 7.6                                                   | 7.6                                                     | 8.1                                                   | 8.4                                            |
|                                     |                     | Total suspended solids | mg/l  | 13                                                    | 5                                                       | 31                                                    | 32                                                      | 5                                                     | 5                                              |
|                                     |                     | Total dissolved solids | mg/l  | 255                                                   | 246                                                     | 243                                                   | 245                                                     | 226                                                   | 273                                            |
|                                     |                     | Conductivity           | uS/cm | 359                                                   | 359                                                     | 384                                                   | 442                                                     | 431                                                   | 446                                            |
| 7                                   | CWD6                | pH                     | pH    | 8.5                                                   | 8.9                                                     | 8.4                                                   | 9.3                                                     | 9.6                                                   | 9.4                                            |
|                                     |                     | Total suspended solids | mg/l  | 12                                                    | 5                                                       | 14                                                    | 26                                                      | 77                                                    | 10                                             |
|                                     |                     | Total dissolved solids | mg/l  | 248                                                   | 242                                                     | 398                                                   | 209                                                     | 198                                                   | 224                                            |
|                                     |                     | Conductivity           | uS/cm | 318                                                   | 324                                                     | 708                                                   | 368                                                     | 357                                                   | 361                                            |
| 8                                   | DWD1                | pH                     | pH    | 8.5                                                   | 8.7                                                     | 8.7                                                   | 8.9                                                     | 9.0                                                   | 9.0                                            |
|                                     |                     | Total suspended solids | mg/l  | 12                                                    | 5                                                       | 10                                                    | 28                                                      | 17                                                    | 28                                             |
|                                     |                     | Total dissolved solids | mg/l  | 4260                                                  | 4880                                                    | 4990                                                  | 5290                                                    | 4780                                                  | 4710                                           |
|                                     |                     | Conductivity           | uS/cm | 7070                                                  | 7570                                                    | 7750                                                  | 8190                                                    | 7530                                                  | 7280                                           |
| 9                                   | DWD2                | pH                     | pH    | 8.6                                                   | 8.6                                                     | 8.8                                                   | 9.0                                                     | 9.0                                                   | 8.5                                            |
|                                     |                     | Total suspended solids | mg/l  | 58                                                    | 28                                                      | 20                                                    | 19                                                      | 53                                                    | 54                                             |
|                                     |                     | Total dissolved solids | mg/l  | 4320                                                  | 4920                                                    | 4850                                                  | 5310                                                    | 4750                                                  | 4940                                           |
|                                     |                     | Conductivity           | uS/cm | 6480                                                  | 7710                                                    | 7730                                                  | 8100                                                    | 7430                                                  | 7470                                           |
| 6                                   | DWD4                | pH                     | pH    | 8.7                                                   | 8.7                                                     | 8.8                                                   | 8.9                                                     | 9.0                                                   | 8.8                                            |
|                                     |                     | Total suspended solids | mg/l  | 11                                                    | 5                                                       | 13                                                    | 38                                                      | 28                                                    | 25                                             |
|                                     |                     | Total dissolved solids | mg/l  | 4320                                                  | 4830                                                    | 4980                                                  | 5320                                                    | 4750                                                  | 4760                                           |
|                                     |                     | Conductivity           | uS/cm | 7020                                                  | 7660                                                    | 7750                                                  | 8050                                                    | 7430                                                  | 7380                                           |

| Published:<br>Sampled:<br>Obtained: |                     |                        |       | 4 November 2024<br>2 October 2024<br>10 October 2024 | 2 December 2024<br>7 November 2024<br>15 November 2024 | 9 January 2025<br>4 December 2024<br>10 December 2024 | 12 February 2025<br>7 January 2025<br>23 January 2025 | 10 March 2025<br>5 February 2025<br>12 February 2025 | 7 April 2025<br>4 March 2025<br>7 April 2025 |
|-------------------------------------|---------------------|------------------------|-------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|----------------------------------------------|
| Sampling Point                      | Monitoring Location | Pollutant              | Unit  | October Measurement                                  | November Measurement                                   | December Measurement                                  | January Measurement                                   | February Measurement                                 | March Measurement                            |
| 11                                  | W1                  | pH                     | pH    | 7.5                                                  | 7.7                                                    | 7.8                                                   | 7.6                                                   | 7.6                                                  | 7.3                                          |
|                                     |                     | Total suspended solids | mg/l  | 15                                                   | 8                                                      | 12                                                    | 12                                                    | 5                                                    | 8                                            |
|                                     |                     | Total dissolved solids | mg/l  | 694                                                  | 702                                                    | 799                                                   | 1260                                                  | 538                                                  | 438                                          |
|                                     |                     | Conductivity           | uS/cm | 1110                                                 | 1270                                                   | 1340                                                  | 1720                                                  | 539                                                  | 612                                          |
| 12                                  | W3                  | pH                     | pH    | 6.9                                                  |                                                        | 7.2                                                   |                                                       | 6.9                                                  | 7.1                                          |
|                                     |                     | Total suspended solids | mg/l  | 18                                                   |                                                        | 58                                                    |                                                       | 87                                                   | 48                                           |
|                                     |                     | Total dissolved solids | mg/l  | 1180                                                 |                                                        | 596                                                   |                                                       | 566                                                  | 642                                          |
|                                     |                     | Conductivity           | uS/cm | 1570                                                 |                                                        | 208                                                   |                                                       | 247                                                  | 211                                          |
| 13                                  | W6                  | pH                     | pH    | 7.3                                                  | 7.5                                                    | 6.9                                                   |                                                       | 7.5                                                  |                                              |
|                                     |                     | Total suspended solids | mg/l  | 5                                                    | 14                                                     | 13                                                    |                                                       | 12                                                   |                                              |
|                                     |                     | Total dissolved solids | mg/l  | 7900                                                 | 7670                                                   | 17700                                                 |                                                       | 9810                                                 |                                              |
|                                     |                     | Conductivity           | uS/cm | 12100                                                | 12200                                                  | 23100                                                 |                                                       | 13400                                                |                                              |

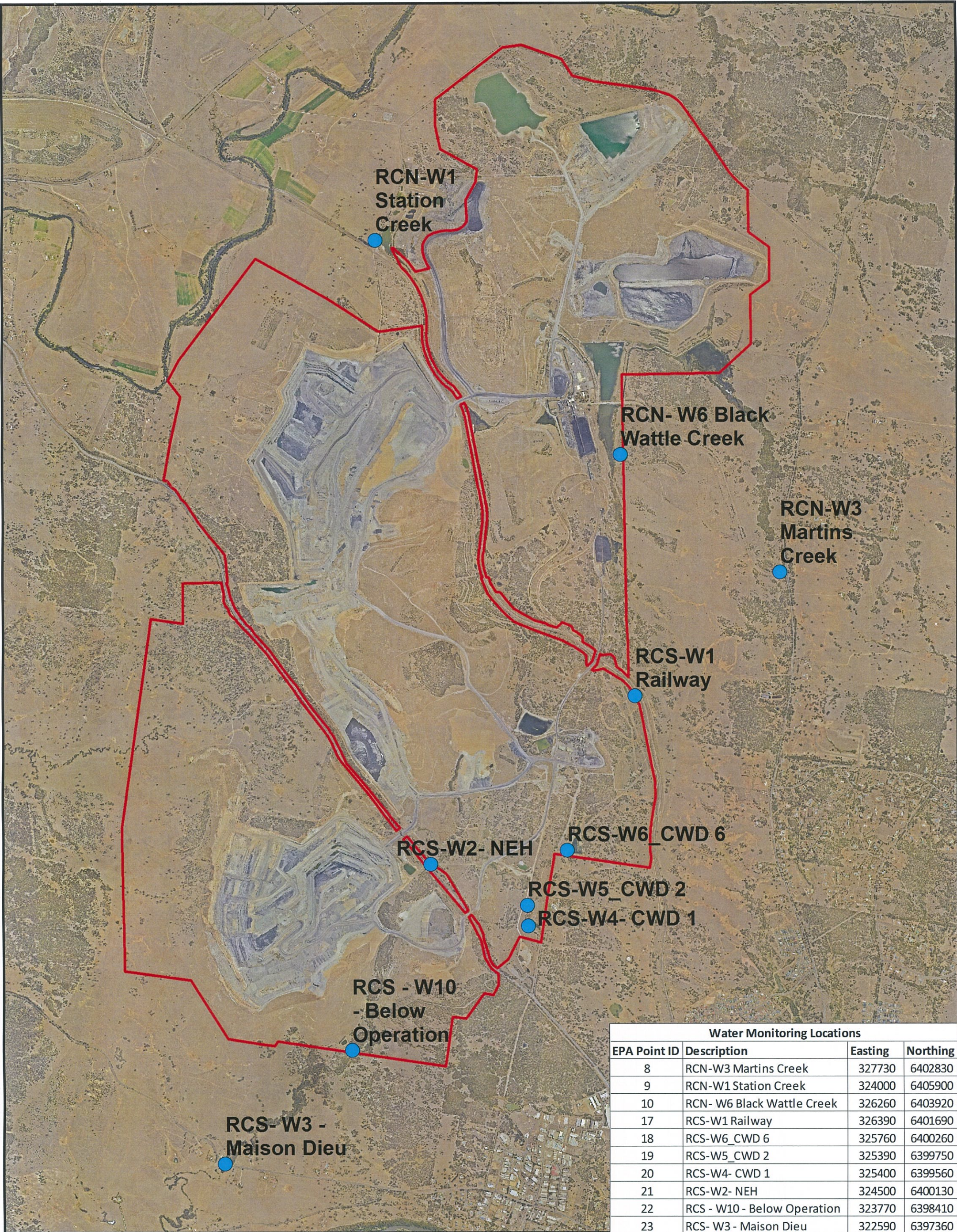
No Result  
Site Dry











## Legend

- EPL\_Water\_pointsb.csv Events
- EPL PREMISES BOUNDARY

*T. R. Gentle* 13/8/2020  
Timothy R Gentle  
Surveyor Registered under the  
Surveying and Spatial Information Act, 2002

## EPL 3391 Surface Water Monitoring Sites



WE CARE. WE DELIVER.  
Author: TRG  
Scale: 1:30,000  
Date: 13/08/2020  
File: EPL Water monit 2008