

**RIX'S CREEK MINE AIR QUALITY RESULTS**  
 Year ending March 2024 TEOM / Dusttrak Summary



**License Number:** 3391  
**Licensee:** RIX'S CREEK PTY. LIMITED  
 PO BOX 4  
 EAST MAITLAND NSW 2323  
**Premises:** RIX'S CREEK COLLIERY  
 RIX'S CREEK LANE  
 SINGLETON NSW 2330

**Monitoring Frequency:** Continuous  
**Sampling Method:** AM-22  
**Averaging period:** 24hrs  
**Pollutant:** PM10  
**Units of measure:** micrograms per cubic metre

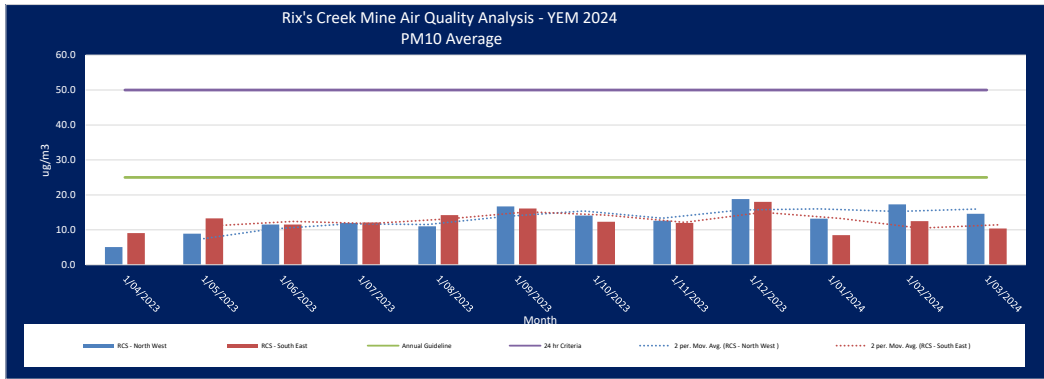
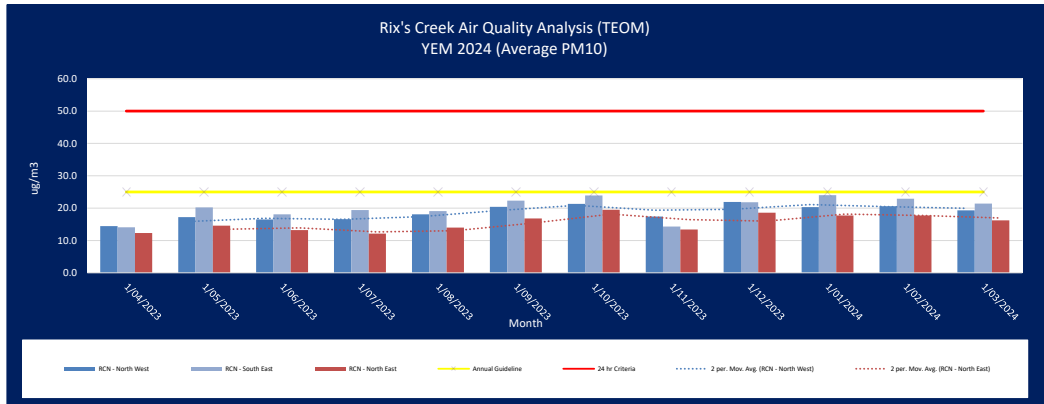
| 2023 / 2024 |        |                  |                   |                  |               |                   |                    |                   |                  |                |
|-------------|--------|------------------|-------------------|------------------|---------------|-------------------|--------------------|-------------------|------------------|----------------|
| Month       | EPA ID | Sampling Point   | First Sample Date | Last sample date | Date obtained | Min daily average | Mean daily average | Max daily average | Annual Guideline | 24 hr Criteria |
| APR         | 12     | RCN - North West | 1/04/2023         | 30/04/2023       | Daily         | 8.9               | 14.5               | 27.9              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/04/2023         | 30/04/2023       | Daily         | 6.7               | 14.1               | 27.7              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/04/2023         | 30/04/2023       | Daily         | 6.0               | 12.3               | 21.2              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/04/2023         | 30/04/2023       | Daily         | 1.5               | 5.1                | 10.8              | 25.00            | 50.00          |
| MAY         | 12     | RCN - North West | 1/05/2023         | 31/05/2023       | Daily         | 1.9               | 17.2               | 28.7              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/05/2023         | 31/05/2023       | Daily         | 7.6               | 20.2               | 39.5              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/05/2023         | 31/05/2023       | Daily         | 4.4               | 14.6               | 31.6              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/05/2023         | 31/05/2023       | Daily         | 2.1               | 8.9                | 20.8              | 25.00            | 50.00          |
| JUNE        | 12     | RCN - North West | 1/06/2023         | 30/06/2023       | Daily         | 7.2               | 16.5               | 28.2              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/06/2023         | 30/06/2023       | Daily         | 7.1               | 18.1               | 27.2              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/06/2023         | 30/06/2023       | Daily         | 4.9               | 13.2               | 20.1              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/06/2023         | 30/06/2023       | Daily         | 2.7               | 11.5               | 29.5              | 25.00            | 50.00          |
| JULY        | 12     | RCN - North West | 1/07/2023         | 31/07/2023       | Daily         | 6.5               | 16.6               | 26.0              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/07/2023         | 31/07/2023       | Daily         | 7.1               | 19.4               | 32.7              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/07/2023         | 31/07/2023       | Daily         | 4.0               | 12.1               | 21.7              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/07/2023         | 31/07/2023       | Daily         | 2.2               | 12.0               | 25.5              | 25.00            | 50.00          |
| AUG         | 12     | RCN - North West | 1/08/2023         | 31/08/2023       | Daily         | 7.9               | 18.1               | 36.9              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/08/2023         | 31/08/2023       | Daily         | 7.2               | 19.1               | 40.4              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/08/2023         | 31/08/2023       | Daily         | 5.7               | 14.0               | 26.1              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/08/2023         | 31/08/2023       | Daily         | 3.0               | 11.0               | 19.9              | 25.00            | 50.00          |
| SEPT        | 12     | RCN - North West | 1/09/2023         | 30/09/2023       | Daily         | 10.2              | 20.4               | 38.2              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/09/2023         | 30/09/2023       | Daily         | 9.0               | 22.3               | 55.6              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/09/2023         | 30/09/2023       | Daily         | 8.1               | 16.8               | 30.7              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/09/2023         | 30/09/2023       | Daily         | 3.6               | 16.7               | 41.2              | 25.00            | 50.00          |
| OCT         | 12     | RCN - North West | 1/10/2023         | 31/10/2023       | Daily         | 5.2               | 16.1               | 35.3              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/10/2023         | 31/10/2023       | Daily         | 7.8               | 21.3               | 48.9              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/10/2023         | 31/10/2023       | Daily         | 7.1               | 23.9               | 47.3              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/10/2023         | 31/10/2023       | Daily         | 6.2               | 19.5               | 36.6              | 25.00            | 50.00          |
| NOV         | 12     | RCN - North West | 1/11/2023         | 30/11/2023       | Daily         | 4.1               | 14.1               | 35.3              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/11/2023         | 30/11/2023       | Daily         | 3.6               | 12.3               | 29.8              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/11/2023         | 30/11/2023       | Daily         | 7.9               | 17.4               | 32.4              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/11/2023         | 30/11/2023       | Daily         | 5.8               | 14.3               | 31.7              | 25.00            | 50.00          |
| DEC         | 12     | RCN - North West | 1/12/2023         | 31/12/2023       | Daily         | 6.9               | 13.4               | 25.5              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/12/2023         | 31/12/2023       | Daily         | 4.7               | 12.6               | 23.3              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/12/2023         | 31/12/2023       | Daily         | 4.9               | 12.0               | 24.6              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/12/2023         | 31/12/2023       | Daily         | 5.5               | 21.9               | 38.9              | 25.00            | 50.00          |
| JAN         | 12     | RCN - North West | 1/12/2023         | 31/12/2023       | Daily         | 7.5               | 21.8               | 38.5              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/12/2023         | 31/12/2023       | Daily         | 4.6               | 18.6               | 32.6              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/12/2023         | 31/12/2023       | Daily         | 5.0               | 18.8               | 52.1              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/12/2023         | 31/12/2023       | Daily         | 3.9               | 18.0               | 59.7              | 25.00            | 50.00          |
| FEB         | 12     | RCN - North West | 1/01/2024         | 31/01/2024       | Daily         | 12.9              | 20.3               | 35.5              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/01/2024         | 31/01/2024       | Daily         | 16.6              | 24.0               | 41.1              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/01/2024         | 31/01/2024       | Daily         | 10.9              | 17.7               | 35.1              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/01/2024         | 31/01/2024       | Daily         | 5.6               | 13.2               | 27.8              | 25.00            | 50.00          |
| MAR         | 12     | RCN - North West | 1/01/2024         | 31/01/2024       | Daily         | 4.1               | 8.5                | 19.8              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/02/2024         | 29/02/2024       | Daily         | 11.4              | 20.6               | 44.4              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/02/2024         | 29/02/2024       | Daily         | 10.1              | 22.9               | 44.2              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/02/2024         | 29/02/2024       | Daily         | 8.8               | 17.7               | 32.4              | 25.00            | 50.00          |
| MAR         | 12     | RCN - North West | 1/02/2024         | 29/02/2024       | Daily         | 8.6               | 17.3               | 53.6              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/02/2024         | 29/02/2024       | Daily         | 4.9               | 12.5               | 41.0              | 25.00            | 50.00          |
|             | 14     | RCN - North East | 1/03/2024         | 31/03/2024       | Daily         | 10.1              | 19.3               | 32.6              | 25.00            | 50.00          |
|             | 15     | RCS - North West | 1/03/2024         | 31/03/2024       | Daily         | 13.2              | 21.4               | 39.8              | 25.00            | 50.00          |
| MAR         | 12     | RCN - North West | 1/03/2024         | 31/03/2024       | Daily         | 8.9               | 16.2               | 30.5              | 25.00            | 50.00          |
|             | 13     | RCN - South East | 1/03/2024         | 31/03/2024       | Daily         | 5.6               | 14.6               | 26.6              | 25.00            | 50.00          |
| MAR         | 16     | RCS - South East | 1/03/2024         | 31/03/2024       | Daily         | 3.6               | 10.4               | 23.6              | 25.00            | 50.00          |

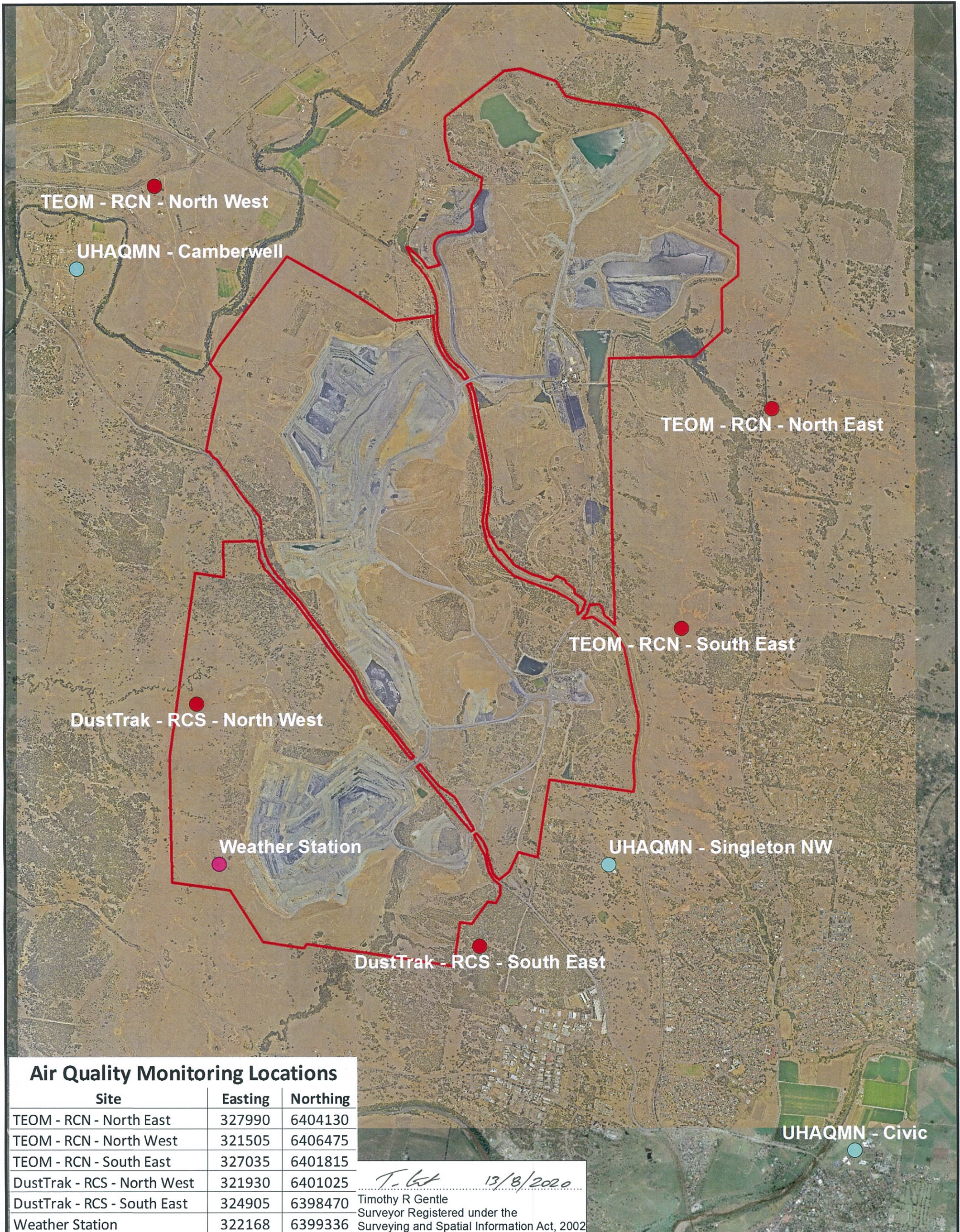
| YEM 2024 RCN - North West |                   |                  | YEM 2024 RCN - South East |                   |                  | YEM 2024 RCN - North East |                   |                  |
|---------------------------|-------------------|------------------|---------------------------|-------------------|------------------|---------------------------|-------------------|------------------|
| Year to date min          | Year to date mean | Year to date max | Year to date min          | Year to date mean | Year to date max | Year to date min          | Year to date mean | Year to date max |
| 1.9                       | 18.7              | 48.9             | 5.7                       | 18.2              | 55.6             | 4.0                       | 15.5              | 36.6             |

| YEM 2024 RCS - North West (Bowmans) |                   |                  | YEM 2024 RCS - South East (South Rehab) |                   |                  |
|-------------------------------------|-------------------|------------------|---|-------------------|------------------|
| Year to date min                    | Year to date mean | Year to date max | Year to date min                        | Year to date mean | Year to date max |
| 1.50                                | 12.98             | 53.6             | 2.40                                    | 12.50             | 59.7             |

TEOM data updated 8/04/2024  
 Dusttrak data updated 8/04/2024

- \* Saturday 29/04/2023 19:40 NW TEOM lost power due to electrical storm, power restored Monday 1st May by Environment Officer.
- \* Sunday 18/06/2023 NE TEOM went offline due to power outage, power restored Monday the 19th by Environmental Officer.
- \* Friday 21/07/2023 8:10pm NE TEOM froze Enviro officer rebooted system 9:00am Monday 24/07/2023
- \* Saturday 16/09/2023 NW TEOM froze Enviro officer rebooted system 9:00am Monday 18/09/2023
- \* Monday 2/10/2023 NW TEOM froze Enviro officer rebooted system 9:00 am Tuesday 3/10/2023
- \* Tuesday 10/10/2023 NW TEOM froze Enviro officer rebooted system 9:00am Wednesday 11/10/2023
- \* Friday 20/10/2023 NW TEOM froze Enviro officer rebooted system 9:00 am Monday 23/10/2023
- \* Monday 27/11/2023 NW & SE TEOM calibration. Calibration completed 28/11/2023
- \* Monday 27/11/2023 NE TEOM calibration. Calibration completed 29/11/2023
- \* RCS Northwest & Southeast Dusttraks recorded high monthly maximums which appears to be due to condensation within units
- \* Sunday 10/03/2024 14:20 SE TEOM Went offline due to electrical supply issues, electricians & maintenance contractors restored power 13/03/2024 5:55





### Air Quality Monitoring Locations

| Site                        | Easting | Northing |
|-----------------------------|---------|----------|
| TEOM - RCN - North East     | 327990  | 6404130  |
| TEOM - RCN - North West     | 321505  | 6406475  |
| TEOM - RCN - South East     | 327035  | 6401815  |
| DustTrak - RCS - North West | 321930  | 6401025  |
| DustTrak - RCS - South East | 324905  | 6398470  |
| Weather Station             | 322168  | 6399336  |

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



**Legend**

- Weather Station
- Air Quality Monitoring Sites
- UHAQMN Sites
- EPL PREMISES BOUNDARY

### AIR QUALITY MONITORING LOCATIONS - EPL3391



Author: TRG  
 Scale: 1:35,000  
 Date: 13/08/2020  
 File: Air monit sites EPL 2008