

TOMINGLEY GOLD PROJECT

Monthly Environmental Monitoring Report

February 2019

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Document History

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1. Introduction and Scope

This Monthly Environmental Monitoring Report has been prepared to collate environmental monitoring data undertaken for the Tomingley Gold Project during the month of February 2019.

This report also compares data collected to targets and provides commentary on environmental issues during the month.

2. Weather for February 2019

A. Weather Station Data

TGO WEATHER DATA IS PRESENTED BELOW.

Figure 1. February 2019 wind rose

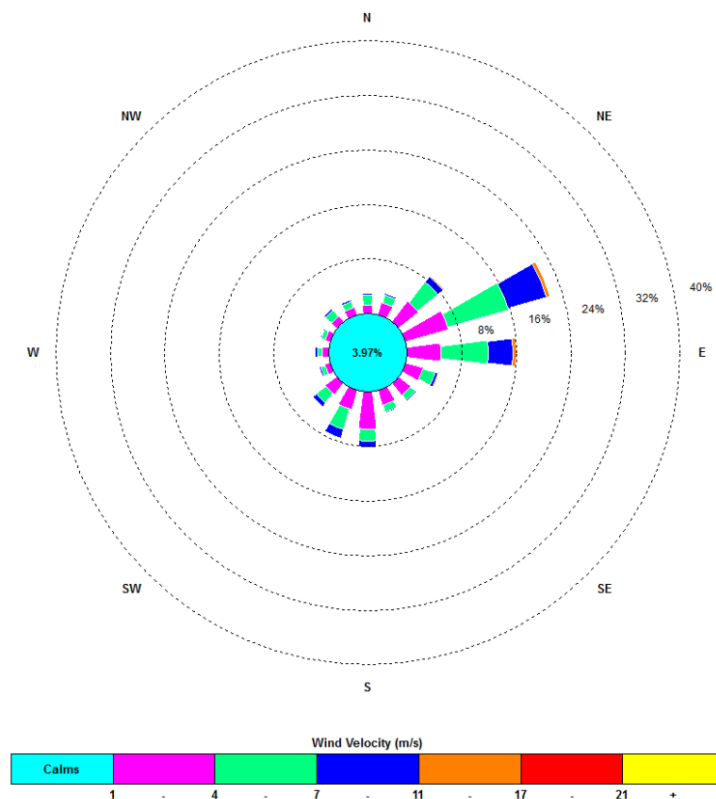


Figure 2. Rainfall February 2019

| February 2019 | Rainfall (mm) |
|-----------------------|---------------|
| February 5 | 0.4 |
| February 6 | 0.2 |
| February 8 | 17 |
| February 9 | 0.2 |
| Total Rainfall | 19.6 |

3. Monitoring Locations

FIGURE 3 indicates the location of where monitoring is undertaken for the project. Any additional monitoring undertaken will be discussed within the body of this report.

Figure 3. TGO water and vegetation monitoring points

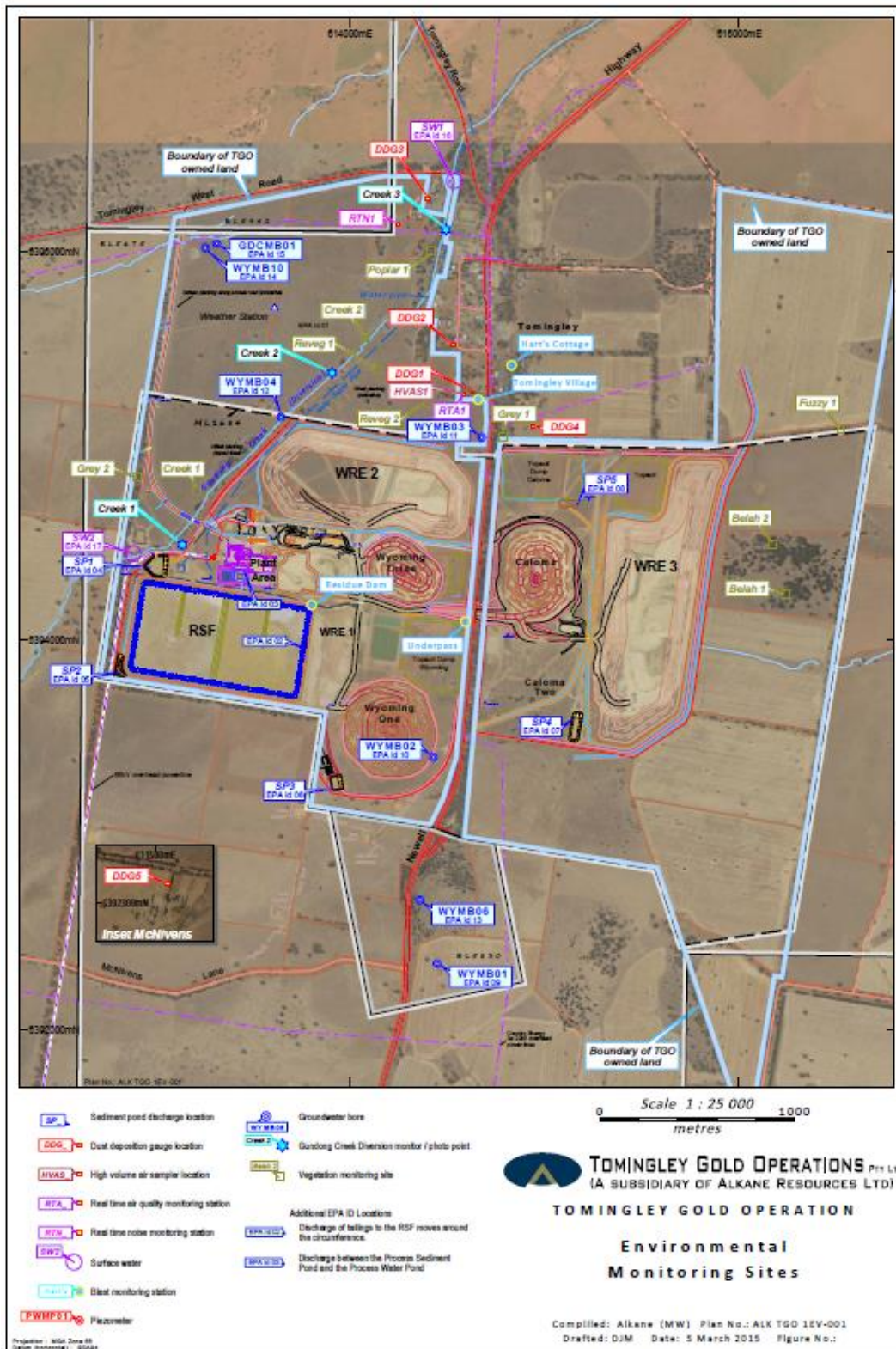
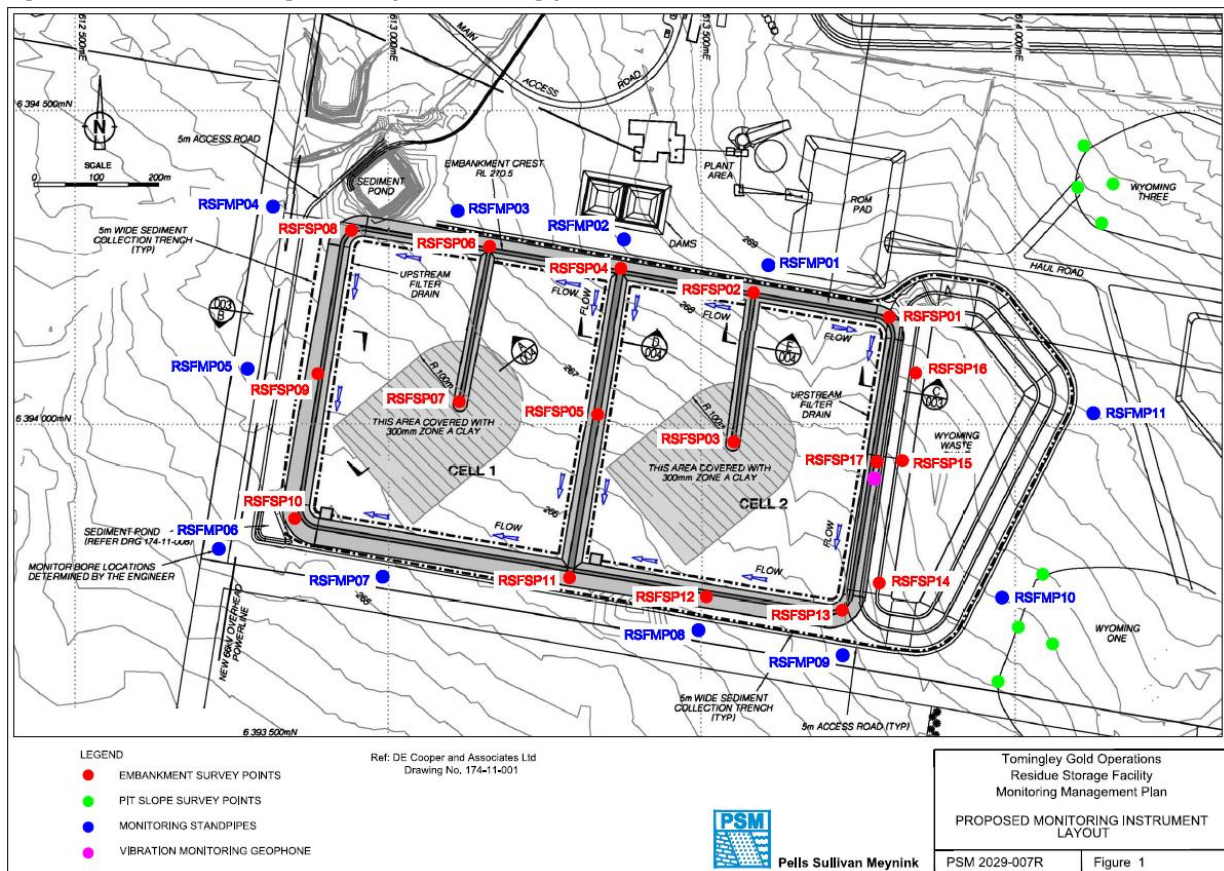


Figure 4 indicates the location of environmental and survey monitoring points on and around the Residue Storage Facility.

Figure 4. Residue Storage Facility monitoring points



4. Air Quality Monitoring

A. PM10 Monitoring

PM10 is measured via a Tapered Element Oscillating Microbalance (TEOM) located at the southern edge of the Tomingley Village. This machine transmits real-time data via the internet to a computer located on site.

The Performance Criteria for PM10 has been set at an Annual Average of 30ug/m³ and a 24-Hour Average of 50ug/m³.

The current annual average of all PM10 data at the end of February was 30.1ug/m³, slightly above the Approval limit.

A number of high levels recorded throughout the month were as a result of regional dust and dust storms due to ongoing drought conditions and were not generated by the project.

Figure 5. TEOM Data February 2019

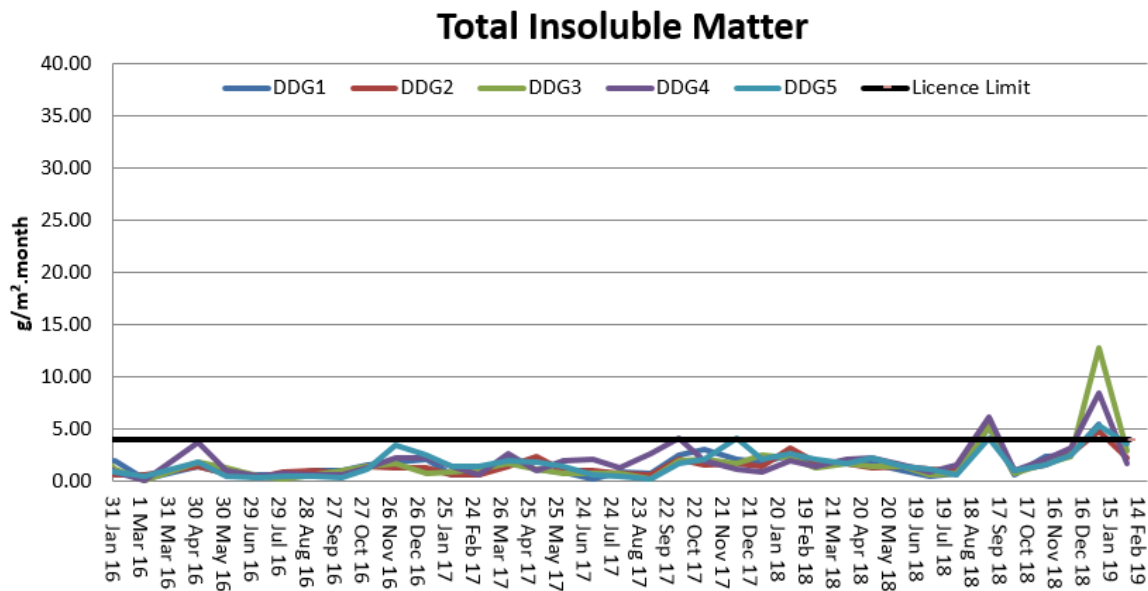
| Date | 24 Hr Averages | Running Average | Comment |
|----------------|------------------------------------|-----------------|---|
| | (µg/m3) | | |
| 1/02/2019 | 60.8 | 27.7 | |
| 2/02/2019 | 31.3 | 27.8 | |
| 3/02/2019 | 25.9 | 27.9 | |
| 4/02/2019 | 36.4 | 27.9 | |
| 5/02/2019 | 33.8 | 28.0 | |
| 6/02/2019 | 14.7 | 28.1 | |
| 7/02/2019 | 23.7 | 28.1 | |
| 8/02/2019 | 19.9 | 28.2 | Recalc using 1hr average data. 1hr machine outage excluded |
| 9/02/2019 | 33.9 | 28.2 | |
| 10/02/2019 | 51.0 | 28.4 | |
| 11/02/2019 | 18.3 | 28.4 | |
| 12/02/2019 | 78.2 | 28.6 | |
| 13/02/2019 | 138.3 | 28.9 | |
| 14/02/2019 | 39.9 | 29.0 | |
| 15/02/2019 | 35.2 | 29.1 | |
| 16/02/2019 | 26.3 | 29.2 | |
| 17/02/2019 | 31.5 | 29.2 | |
| 18/02/2019 | 49.2 | 29.3 | |
| 19/02/2019 | 57.0 | 29.5 | |
| 20/02/2019 | 57.9 | 29.6 | |
| 21/02/2019 | 35.4 | 29.7 | |
| 22/02/2019 | 16.2 | 29.7 | |
| 23/02/2019 | 19.0 | 29.8 | |
| 24/02/2019 | 20.4 | 29.8 | |
| 25/02/2019 | 28.8 | 29.9 | |
| 26/02/2019 | 28.8 | 29.9 | |
| 27/02/2019 | No Data | 30.0 | Insufficient data for 24 hour averaging purposes - Annual calibration |
| 28/02/2019 | No Data | 30.1 | Insufficient data for 24 hour averaging purposes - Annual calibration |
| | | | |
| | | | |
| Average | 38.9 | | |
| | 24 Hour Criteria Exceedance | | |

Note: For comparison purposes, highlighted results indicate levels above the EPA and NEPM 24hr maximum criteria and not the site Approval, as number of high levels recorded throughout the month were as a result of regional dust and dust storms due to ongoing drought conditions and were not generated by the project.

B. Depositional Dust

Depositional Dust monitoring undertaken during this month returned the results indicated in the table below. The above average January results coincided with the increase of regional dust and dust storms due to ongoing drought conditions and were not generated by the project. The performance criteria for deposited dust is averaged over 12 months with a maximum total average of 4g/m²/month.

Figure 6. Dust Deposition Results 2016 - 2019

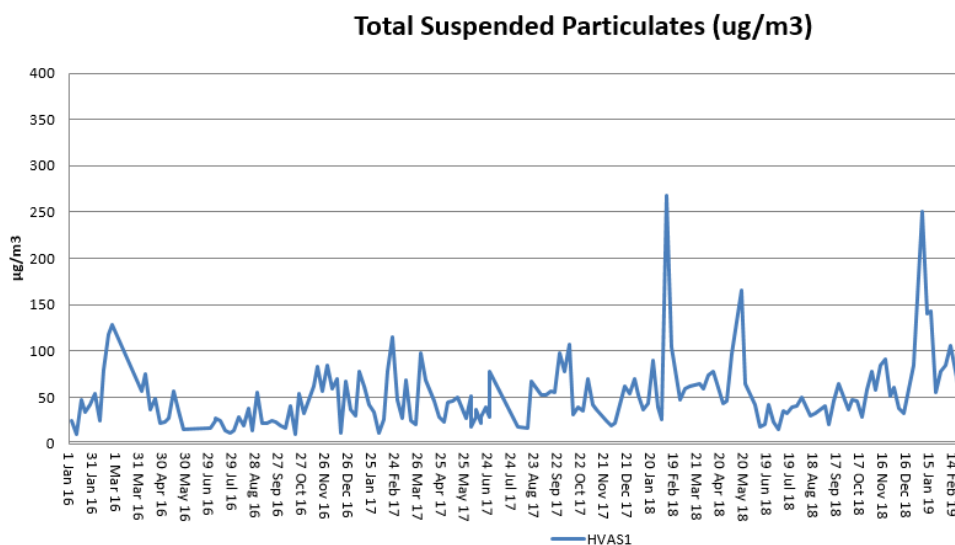


C. High Volume Air Sampler - Total Suspended Particulates

High Volume Air Sampling (HVAS) for Total Suspended Particulates (TSP) was undertaken this month. Figure 7 below provides the results. The above average January results coincided with the increase of regional dust and dust storms due to ongoing drought conditions and were not generated by the project.

The performance criteria for TSP is averaged over 12 months.

Figure 7. Hi-Volume Air Sampler Data 2016 - 2019



5. Noise Monitoring

A. Real-Time Noise Monitoring

Real-time noise monitoring data showed no exceedances during the month of February. Full report provided separately on webpage.

6. Surface Water Monitoring

A. Gundong Creek

Gundong Creek did not flow during February and as such no samples were taken.

B. Sedimentation Ponds

No discharge was experienced from any of the sediment ponds during the month.

7. Groundwater Monitoring

Quarterly groundwater monitoring was undertaken during December in line with license requirements.

Results from the previous quarter monitoring fell within expected limits.

A further round of monitoring will be undertaken in March.

8. Blast Monitoring

Blasting is no longer carried out in the TGO open cut pits and vibration and decibels are monitored from several locations. Underground blasting commenced during January however the blasts recorded vibrations below the trigger for the site monitoring equipment.

In future blasts that trigger the monitoring equipment will be recorded.

Figure 8. Blast Monitoring

Nil.

9. Residue Storage Facility

Residue from the processing plant is discharged into the Residue Storage Facility or RSF. The Environmental Protection Licences dictates that the Weak Acid Dissociable (WAD) Cyanide found in this residue must be less than 20 milligrams per litre for 90% of the time and less than 30 milligrams per litre for 100% of the time.

WAD cyanide discharge levels are shown below with the maximum reading below the 100th percentile limit of 30ppm.

- Monthly average: 2.74ppm
- Daily maximum: 12.44 ppm on 16th February
- Daily minimum: 0.98ppm on 2nd February
- Number of exceedances: zero

10. Biodiversity Monitoring

Fauna deaths:

- No fauna deaths were recorded during February.