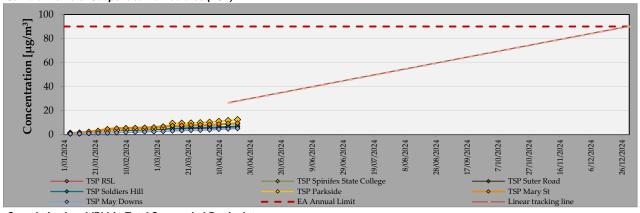
Metals In Mount Isa



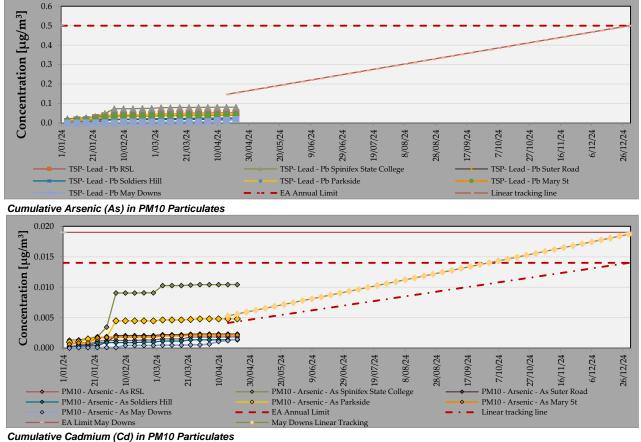
Airborne Dust and Metallic Particulates Concentrations

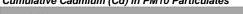
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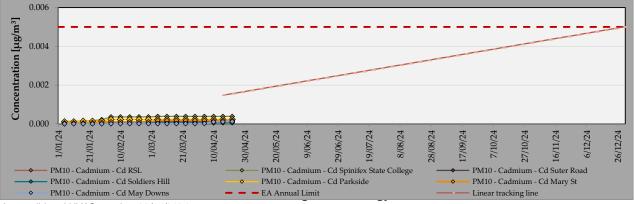
Note for reading these tables: These results show HVAS site performance cumulative average reported over an annual period. The results track our performance towards meeting our Environmental Authority (EA) limit, which is indicated by the red line at the top of the graph. *Cumulative Total Suspended Particulates (TSP)*



Cumulative Lead (Pb) in Total Suspended Particulates







Last validated HVAS run day: 22/04/2024

Metals In Mount Isa



Analytical Procedures

Total Suspended Particulate (TSP) and Particulate Matter - 10µm (PM10) air quality monitoring is undertaken using High Volume Air Samplers (HVAS). The HVAS units are operated once every six days for a 24-hour period from midnight to midnight (local standard time - UTC/GMT +10 hours) in accordance with AS/NZS 3580. Volume measurements are corrected to standard temperature and pressure (STP) conditions (0°C, 101.3 kPa). Filter papers are collected between runs and analysed by a NATA accredited laboratory. Analysis and validation of data may take up to four weeks from the scheduled run day.

METHOD	ANALYSING LABORATORY	NATA ACCREDITATION
In-house method SWI140522 - Sample Collection	Mount Isa Mines Analytical Laboratory	3978
AS/NZS 3580.9.3 (2015)	Mount Isa Mines Analytical Laboratory	3978
AS/NZS 3580.9.6 (2015)	Mount Isa Mines Analytical Laboratory	3978
In house method EA144 - Metals Analysis on Monitoring Filters	ALS Environmental	825

Calibration and Maintenance

Calibration of the HVAS units is undertaken monthly, in accordance with relevant standards. The table below lists the tolerances used for calibration of the equipment used and the associated measurement uncertainty.

Equipment	Parameter	CALIBRATION TOLERANCE	
Ecotech HiVol 3000 - TSP PM10	Temperature	±1°C of reference meter ²	
	Pressure	±7.5 mmHg of reference meter ²	
	Pre-Calibration air flow	±10% of calculated value	
	Post-Calibration air flow	±1% of calculated value	±1%
	Time	N/A	Negligible
Cubis Analytical Balance - MSU224S-100-DU	Mass	Per NATA calibration report	±0.07mg

¹Taken from manufacturer specifications

²Reference meters are independently calibrated against a primary source every 6 months by HVAS Manufacturer (Ecotech)

Monitoring Locations

