

MonitorPro Facilitates Compliance to Canada's MMER Amendments for Metal and Diamond Mines



White Paper

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ABSTRACT

Adherence to Canada's Metal Mining Effluent Regulations (MMER) is a standard operating code of practice for Canada's Metal mines since conception in 2002. Recent amendments to the MMER have now incorporated Diamond Mines into force, as of June 1 2018, now known as the MDMER (Metal and Diamond Effluent Mining Regulations). Further amendments to requirements and maximum allowable limits for key contaminants of concern are coming into force Jan 1 2019 and June 1 2021.

Canada Gazette Part II, May 30 2018

“The objectives of the Amendments are to reduce the risk of the negative effects of mines on fish and fish habitat, improve the efficiency of certain performance measurement and evaluation requirements, and provide regulatory clarity regarding releases of effluent to fish-frequented bodies of water for diamond mines.”

HOW MONITORPRO CLIENTS ARE AFFECTED

EHS Data's Canadian mining clients affected by these and future MDMER amendments are busy sampling and monitoring their effluent to ensure current and future compliance. MonitorPro's flexible calculation and compliance features are enabling the lab and field collected parameters to seamlessly be compared to the prescribed limits.

Specifically:

Monitor Pro's calculation engine is set to up to automatically calculate monthly mean values for grab samples gathered during the course of the month. The calculations update with each new value, and email alerts inform our users if the monthly mean limits have been breached, allowing them to course correct prior to month end.



MonitorPro's calculation engine also seamlessly calculates field Unionized Ammonia (UIA) from Field based Temperature, pH, and Ammonia-Nitrogen – calculated directly from the results entered into the offline MPField application.

MonitorPro's compliance grids are set up to utilize the various features – including the date/time filters, so that past limits are compared to past data. Current limits are compared to current data and future limits are already in place for the time the new limits come into force. Additionally, the various levels of exceedances can be utilized – so that future limit exceedances are set as a 'warning' to alert our users about potential future issues.

CONCLUSION

Regular alerts, dashboards, graphs tables complete the visualisation and tracking for our mining clients. Using an environmental monitoring management solution can benefit the company and its directors by:-

- a) Helping to ensure the plan for monitoring is adhered to and none missed
- b) Reducing the risk of compliance breaches by configurable warning system
- c) Increasing confidence by accurate and up-to-date reports to relevant stakeholders
- d) Reducing the risk of lawsuits by maintaining a coherent audit trail of all data
- e) Reducing the risk of extended responsibility by a secure and verifiable storage of historic and present environmental data
- f) Removing many sources of human error by automating many tasks such as calculation, validation and reporting

We are proud to provide a solution which adds value to our clients and the environment. For more information on how MonitorPro can help your operation, visit ehsdata.com.

REFERENCES

Canada Gazette Part II – Wednesday, 30th May 2018

<http://gazette.gc.ca/rp-pr/p2/2018/2018-05-30/pdf/g2-15211.pdf>

Compliance and enforcement policy for the Canadian Environmental Protection Act

<https://www.canada.ca/en/environment-climate-change/services/environmental-enforcement/publications/compliance-policy-canadian-protection-act.html>

