

Challenger Mines Pty Ltd Environment Protection Licence 10265 Monitoring Data Summary

October 2018



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1. INTRODUCTION

Environmental Protection Licence (**EPL**) holders are required under the *Protection of the Environment Operations Act 1997* to make publicly available their monitoring results for those parameters specified in the EPL. This document has been prepared to satisfy this requirement.

Challenger Mines operations are conducted in accordance with EPL 10265. The licence details are as follows:

License Holder: Challenger Mines Pty Limited

Licence Number: 10265

Premises: Challenger Mines

33 Ryans Road Adelong 2729

Access to Licence: http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=10265&id=10265&

option=licence&searchrange=licence&range=POEO

licence&prp=no&status=Issued

Monitoring Locations: See main text and Appendix A

This document provides a summary of environmental monitoring data sampled as prescribed by EPL 10265 for October 2018 (**Reporting Period**).

Monitoring data provided is as follows:

- Air quality
- Surface water quality
- Ground water quality



2. AIR QUALITY

Under EPL 10265 CMPL is required to undertake dust monitoring at EPA Monitoring Points 11,12,13,14, and 15 (**Appendix A**)

2.1 Dust

Pollutant: Total Solid Particles

Unit of measure:

Grams per square metre per month

Monitoring location: See Table 1 and Appendix A.

Monitoring frequency required by licence: Monthly

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Table 1. Dust Monitoring Summary

			EPL 11	EPL 12	EPL 13	EPL 14	EPL 15
		Sample Date					
		24 /10/2019	Result	Result	Result	Result	Result
Total Insoluble Solids	g/m²/30						
Per Sampling Period	days		2.5	0.9	2.6	1.3	2.8



3. SURFACE WATER

Under EPL 10265 CMPL is required to undertake surface water monitoring at EPA Monitoring Points 3,4,5, and 6 (**Appendix A**).

Pollutant: Various see Table 2

Unit of measure: See Table 2

Monitoring location: See Table2 and Appendix A.

Monitoring frequency required by licence:

Quarterly at EPL4,5,6 and weekly at

EPL 3 during discharge



Table 2 Surface Water Monitoring Summary *no discharge from EPL3 no sampling was required *EPL 5 was dry

Sample Date	25/10/2018			
		EDI 4	EDI 0	
		EPL 4	EPL 6	
Analyte Name	Units			
pH**	No unit	7.3	8.6	
Conductivity @ 25 C	μS/cm	540	480	
Fluoride	mg/L	0.29	0.48	
Sulphate, SO4	mg/L	40	170	
Biochemical Oxygen				
Demand (BOD5)	mg/L	<5	<5	
Total Cyanide	mg/L	<0.004	<0.004	
Oil and Grease	mg/L	<5	27	
Chemical Oxygen				
Demand	mg/L	15	33	
Total Suspended Solids				
Dried at 103-105°C	mg/L	<5	10	
Anionic Surfactants as				
MBAS (Calc. as LAS				
MW 288)	mg/L	<0.1	<0.1	
Total Aluminium	mg/L	0.013	0.27	
Total Arsenic	mg/L	<0.001	0.001	
Total Cadmium	mg/L	<0.0001	<0.0001	
Total Chromium	mg/L	<0.001	<0.001	
Total Cobalt	mg/L	<0.001	<0.001	
Total Copper	mg/L	0.002	0.001	
Total Lead	mg/L	0.001	<0.001	
Total Manganese	mg/L	0.16	0.012	
Total Molybdenum	mg/L	0.003	0.004	
Total Nickel	mg/L	<0.001	0.001	
Total Selenium	mg/L	<0.001	<0.001	
Total Zinc	mg/L	<0.005	<0.005	
Total Mercury	mg/L	<0.0001	<0.0001	



4. Ground Water

Under EPL 10265 CMPL is required to undertake ground water monitoring at EPA Monitoring Points 7,8,9 and 10 (**Appendix A**).

Pollutant: Various see Table 3

Unit of measure: See Table 3

Monitoring location: See Table3 and Appendix A.

Monitoring frequency required by licence: Quarterly

All groundwater bores were inspected and found to be dry this quarter no sampling required.



Appendix A

EPL monitoring Locations for Dust, **Groundwater and Surface Waters**

EPL SAMPLING LOCATIONS FOR WATER AND DUST MONITORING

