



Northparkes Mines
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 ABN 17 164 997 317

www.northparkes.com

Published: 22/02/2016
Sampled: 14/03/2016
Obtained: 5/04/2016

Licensee: Sumitomo Metal Mining Oceana P/L
 CMOC Mining Pty Ltd
 SC Mineral Resources Pty Ltd
EPL No.: 4784

Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W14	Quarterly	Conductivity	13930	µS/cm	The Q1 2016 water monitoring results for W14 bore are inline with historical water quality. There is minimal elevation in the standing water level from previous quarter which was 22.50 m. The conductivity and copper concentrations slightly increased from last quarter. Conductivity was 13900 µS/cm and Cu was 0.018 mg/L in Q4 2015. There was a slight decrease in pH concentrations from last quarter which was 7.44. These variances is the result of less infiltration of water due to low rainfall over the reporting period.
W14	Quarterly	Copper	0.002	mg/L	
W14	Quarterly	pH	7.15		
W14	Quarterly	Standing Water Level	22.9	m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W19 (MB21)	Quarterly	Conductivity	5742.2	µS/cm	The Q1 2016 water monitoring results for W19 bore are inline with historical water quality. There is no variance in the standing water level from previous quarter which was 36.1 m. The pH observed a slight increase from last quarter which was 7.81. The copper concentration decreased from last quarter which was 0.018 mg/L. Similarly, the conductivity decreased from the last quarter which was 5970 µS/cm in Q4 2015. These variances is the result of less infiltration of water due to low rainfall over the reporting period.
W19 (MB21)	Quarterly	Copper	0.004	mg/L	
W19 (MB21)	Quarterly	pH	7.86		
W19 (MB21)	Quarterly	Standing Water Level	36.0	m	



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Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W21 (MB23)	Quarterly	Conductivity	14235	µS/cm	The Q1 2016 water monitoring results for W21 bore are inline with historical water quality. There is no change in the standing water level from previous quarter due to minimal rain fall over the period. There was an increase in pH, conductivity and copper concentration from the last quarter. pH was 11.31, Conductivity 14400 µS/cm and copper concentration was 0.003mg/L in Q4 2015. The variances in the results are due to less infiltration of water due to low rainfall over the reporting period.
W21 (MB23)	Quarterly	Copper	0.005	mg/L	
W21 (MB23)	Quarterly	pH	11.38		
W21 (MB23)	Quarterly	Standing Water Level	14.22	m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W23 (MB25)	Quarterly	Conductivity	19360	µS/cm	The Q1 2016 water monitoring results for W23 bore are inline with historical water quality, with exception of Conductivity which saw a increase of 4000 µS/cm from the last reporting period which recorded a value of 15700 µS/cm. pH and copper concentrations decreased from the the last quarter. pH was 7.7 and copper concentrations was 0.026 mg/L in Q4 2015. The copper, pH and conductivity are line with long term averages. The variances in the results are due to less infiltration of water due to low rainfall over the reporting period.
W23 (MB25)	Quarterly	Copper	0.001	mg/L	
W23 (MB25)	Quarterly	pH	7.13		
W23 (MB25)	Quarterly	Standing Water Level	27.68	m	



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Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W25 (MB27)	Quarterly	Conductivity	1411.1	µS/cm	The Q1 2016 water monitoring results for W25 bore are inline with historical water quality. There was not a large change in the standing water level from previous quarter which was 3.5 m. The conductivity concentration increased slightly from the last quarter. Conductivity was 1383 µS/cm. The copper and pH concentrations saw a decrease in the concentrations from the last quarter. Copper concentrations recorded 0.006 and pH 7.69 in Q4 2015. The variances in the results are due to less infiltration of water due to low rainfall over the reporting period.
W25 (MB27)	Quarterly	Copper	0.005	mg/L	
W25 (MB27)	Quarterly	pH	7.69		
W25 (MB27)	Quarterly	Standing Water Level	3.55	m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
W20 (MB22)	Quarterly	Conductivity	17021	µS/cm	The Q1 2016 water monitoring results for W20 bore are inline with historical water quality. There was an decrease in the pH and conductivity concentrations from previous quarter which was 7.75 and 17200 µS/cm. The copper concentrations remained similar to the previous quarter which recorded 0.001 mg/L. There was an increase in the standing water level from previous quarter which was 18.17 m.
W20 (MB22)	Quarterly	Copper	0.001	mg/L	
W20 (MB22)	Quarterly	pH	7.2		
W20 (MB22)	Quarterly	Standing Water Level	18.05	m	