

# Northparkes Operations



Licensee: Evolution Mining (Northparkes) Pty Ltd  
 Sumitomo Metal Mining Oceana P/L  
 SC Mineral Resources Pty Ltd  
 EPL No.: 4784

Q1 Q2 Q3 Q4  
 Sampled: 20/02/2024  
 Obtained: 28/02/2024  
 Published: 8/03/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
1 (W33)	Yearly	Aluminum	mg/L	0.01			
	Yearly	Arsenic	mg/L	0.001			
	Yearly	Barium	mg/L	0.094			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	7.0			
	Yearly	Cadmium	mg/L	0.0001			
	Yearly	Calcium	mg/L	896.0			
	Yearly	Chloride	mg/L	3,640.0			
	Yearly	Chromium	mg/L	0.004			
	Yearly	Cobalt	mg/L	0.001			
	Quarterly	Conductivity	µS/cm	8,682.0			
	Quarterly	Copper	mg/L	0.003			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	18.0			
	Yearly	Molybdenum	mg/L	0.073			
	Yearly	Nickel	mg/L	0.001			
	Quarterly	pH	pH	7.99			
	Yearly	Potassium	mg/L	46.0			
	Yearly	Selenium	mg/L	0.01			
	Yearly	Sodium	mg/L	1,080.0			
	Quarterly	Standing Water Level	m	259.79			
	Yearly	Sulfate	mg/L	542.0			
	Yearly	Total dissolved solids	mg/L	8,390.0			
	Yearly	Zinc	mg/L	0.031			

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2 (W19)	Yearly	Aluminum	mg/L	0.01			
	Yearly	Arsenic	mg/L	0.004			
	Yearly	Barium	mg/L	0.275			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	79			
	Yearly	Cadmium	mg/L	0.0004			
	Yearly	Calcium	mg/L	1,710			
	Yearly	Chloride	mg/L	4,560			
	Yearly	Chromium	mg/L	0.001			
	Yearly	Cobalt	mg/L	0.001			
	Quarterly	Conductivity	µS/cm	13,012			
	Quarterly	Copper	mg/L	0.029			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	100			
	Yearly	Molybdenum	mg/L	0.004			
	Yearly	Nickel	mg/L	0.009			
	Quarterly	pH	pH	7.26			
	Yearly	Potassium	mg/L	10			
	Yearly	Selenium	mg/L	0.01			
	Yearly	Sodium	mg/L	1200			
	Quarterly	Standing Water Level	m	255.94			
	Yearly	Sulfate	mg/L	574			
	Yearly	Total dissolved solids	mg/L	9,220			
	Yearly	Zinc	mg/L	0.14			

**Q1**  
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**Q2**

**Q3**

**Q4**

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
3 (W21)	Yearly	Aluminum	mg/L	0.01			
	Yearly	Arsenic	mg/L	0.001			
	Yearly	Barium	mg/L	0.051			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	114.0			
	Yearly	Cadmium	mg/L	0.0002			
	Yearly	Calcium	mg/L	1,140.0			
	Yearly	Chloride	mg/L	9,130.0			
	Yearly	Chromium	mg/L	0.001			
	Yearly	Cobalt	mg/L	0.001			
	Quarterly	Conductivity	µS/cm	26,592.0			
	Quarterly	Copper	mg/L	0.01			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	784.0			
	Yearly	Molybdenum	mg/L	0.004			
	Yearly	Nickel	mg/L	0.002			
	Quarterly	pH	pH	7.44			
	Yearly	Potassium	mg/L	6.0			
	Yearly	Selenium	mg/L	0.01			
	Yearly	Sodium	mg/L	4,410.0			
	Quarterly	Standing Water Level	m	271.052			
	Yearly	Sulfate	mg/L	2,200.0			
	Yearly	Total dissolved solids	mg/L	25,400.0			
	Yearly	Zinc	mg/L	0.051			

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**Q2**

**Q3**

**Q4**

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4 (W34)	Yearly	Aluminum	mg/L	0.02			
	Yearly	Arsenic	mg/L	0.001			
	Yearly	Barium	mg/L	0.143			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	325.0			
	Yearly	Cadmium	mg/L	0.0008			
	Yearly	Calcium	mg/L	519.0			
	Yearly	Chloride	mg/L	5,170.0			
	Yearly	Chromium	mg/L	0.001			
	Yearly	Cobalt	mg/L	0.005			
	Quarterly	Conductivity	µS/cm	14,063.0			
	Quarterly	Copper	mg/L	0.031			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	306.0			
	Yearly	Molybdenum	mg/L	0.013			
	Yearly	Nickel	mg/L	0.002			
	Quarterly	pH	pH	7.1			
	Yearly	Potassium	mg/L	13.0			
	Yearly	Selenium	mg/L	0.02			
	Yearly	Sodium	mg/L	2,240.0			
	Quarterly	Standing Water Level	m	259.45			
	Yearly	Sulfate	mg/L	765.0			
	Yearly	Total dissolved solids	mg/L	10,800.0			
	Yearly	Zinc	mg/L	0.097			

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**Q3**

**Q4**

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5 (W25)	Yearly	Aluminum	mg/L	1.5			
	Yearly	Arsenic	mg/L	0.002			
	Yearly	Barium	mg/L	0.296			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	369.0			
	Yearly	Cadmium	mg/L	0.0001			
	Yearly	Calcium	mg/L	220.0			
	Yearly	Chloride	mg/L	94.0			
	Yearly	Chromium	mg/L	0.016			
	Yearly	Cobalt	mg/L	0.001			
	Quarterly	Conductivity	µS/cm	2,845.0			
	Quarterly	Copper	mg/L	0.02			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	1.0			
	Yearly	Molybdenum	mg/L	0.032			
	Yearly	Nickel	mg/L	0.002			
	Quarterly	pH	pH	7.57			
	Yearly	Potassium	mg/L	64.0			
	Yearly	Selenium	mg/L	0.01			
	Yearly	Sodium	mg/L	404.0			
	Quarterly	Standing Water Level	m	284.258			
	Yearly	Sulfate	mg/L	1,170.0			
	Yearly	Total dissolved solids	mg/L	2,290.0			
	Yearly	Zinc	mg/L	0.033			

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**Q3**

**Q4**

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6 (W20)	Yearly	Aluminum	mg/L	0.01			
	Yearly	Arsenic	mg/L	0.001			
	Yearly	Barium	mg/L	0.034			
	Yearly	Beryllium	mg/L	0.001			
	Yearly	Bicarbonate	mg/L	530.0			
	Yearly	Cadmium	mg/L	0.0004			
	Yearly	Calcium	mg/L	326.0			
	Yearly	Chloride	mg/L	3,390.0			
	Yearly	Chromium	mg/L	0.001			
	Yearly	Cobalt	mg/L	0.003			
	Quarterly	Conductivity	µS/cm	12,006.0			
	Quarterly	Copper	mg/L	0.028			
	Yearly	Lead	mg/L	0.001			
	Yearly	Magnesium	mg/L	330.0			
	Yearly	Molybdenum	mg/L	0.004			
	Yearly	Nickel	mg/L	0.01			
	Quarterly	pH	pH	7.47			
	Yearly	Potassium	mg/L	8.0			
	Yearly	Selenium	mg/L	0.01			
	Yearly	Sodium	mg/L	2,160.0			
	Quarterly	Standing Water Level	m	269.291			
	Yearly	Sulfate	mg/L	1,530.0			
	Yearly	Total dissolved solids	mg/L	8,360.0			
	Yearly	Zinc	mg/L	0.053			