

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 12/06/2024 11/07/2024 22/11/2024
Obtained: 28/02/2024 21/06/2024 23/07/2024 3/12/2024
Published: 8/03/2024 5/07/2024 2/10/2024 12/12/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
1 (W33)	Yearly	Aluminum	mg/L	0.01	0.05	0.03	0.03
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.094	0.094	0.088	0.097
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	7.0	15	16	25.0
	Yearly	Cadmium	mg/L	0.0001	0.0002	0.0002	0.0002
	Yearly	Calcium	mg/L	896.0	904.0	854	916.0
	Yearly	Chloride	mg/L	3,640.0	3080.0	3000	2,910.0
	Yearly	Chromium	mg/L	0.004	0.003	0.002	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	8,682.0	8,144.0	8116	9,022.0
	Quarterly	Copper	mg/L	0.003	0.019	0.024	0.009
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	18.0	31.0	16	27.0
	Yearly	Molybdenum	mg/L	0.073	0.112	0.107	0.109
	Yearly	Nickel	mg/L	0.001	0.002	0.001	0.001
	Quarterly	pH	pH	7.99	7.36	7.55	7.64
	Yearly	Potassium	mg/L	46.0	46.0	39	39.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	1,080.0	1,160.0	934	1,020.0
	Quarterly	Standing Water Level	m	259.79	260.23	264.203	260.483
	Yearly	Sulfate	mg/L	542.0	460.0	474	504.0
	Yearly	Total dissolved solids	mg/L	8,390.0	6,740.0	6980	7,590.0
	Yearly	Zinc	mg/L	0.031	0.109	0.124	0.046

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2 (W19)	Yearly	Aluminum	mg/L	0.01	0.02	0.01	0.01
	Yearly	Arsenic	mg/L	0.004	0.004	0.005	0.005
	Yearly	Barium	mg/L	0.275	0.184	0.238	0.206
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	79	91.0	96.0	96.0
	Yearly	Cadmium	mg/L	0.0004	0.0003	0.0003	0.0009
	Yearly	Calcium	mg/L	1,710	1,480.0	1,930.0	1,680.0
	Yearly	Chloride	mg/L	4,560	4,700.0	4,950.0	4,360.0
	Yearly	Chromium	mg/L	0.001	0.001	0.002	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	13,012	11,982.0	13,133.0	13,693.0
	Quarterly	Copper	mg/L	0.029	0.007	0.014	0.026
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	100	103.0	109.0	118.0
	Yearly	Molybdenum	mg/L	0.004	0.003	0.004	0.005
	Yearly	Nickel	mg/L	0.009	0.005	0.007	0.008
	Quarterly	pH	pH	7.26	7.18	7.27	7.15
	Yearly	Potassium	mg/L	10	9.0	10.0	8.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	1200	1,140.0	1,180.0	1,250.0
	Quarterly	Standing Water Level	m	255.94	256.33	255.85	257.12
	Yearly	Sulfate	mg/L	574	769.0	624.0	677.0
	Yearly	Total dissolved solids	mg/L	9,220	11,500.0	12,000.0	12,600.0
	Yearly	Zinc	mg/L	0.14	0.142	0.212	0.134

	Q1	Q2	Q3	Q4
Sampled:	20/02/2024	12/06/2024	17/09/2024	22/11/2024
Obtained:	28/02/2024	21/06/2024	1/10/2024	3/12/2024
Published:	8/03/2024	5/07/2024	2/10/2024	12/12/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
3 (W21)	Yearly	Aluminum	mg/L	0.01	0.02	0.03	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.051	0.042	0.072	0.056
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	114.0	126.0	129.0	130.0
	Yearly	Cadmium	mg/L	0.0002	0.0003	0.0003	0.0003
	Yearly	Calcium	mg/L	1,140.0	986.0	1,220.0	998.0
	Yearly	Chloride	mg/L	9,130.0	9,480.0	9,810.0	8,560.0
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	26,592.0	24,601.0	26,882.0	27,295.0
	Quarterly	Copper	mg/L	0.01	0.007	0.022	0.01
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	784.0	662.0	722.0	711.0
	Yearly	Molybdenum	mg/L	0.004	0.003	0.003	0.004
	Yearly	Nickel	mg/L	0.002	0.002	0.005	0.002
	Quarterly	pH	pH	7.44	7.73	7.28	7.07
	Yearly	Potassium	mg/L	6.0	6.0	7.0	6.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	4,410.0	3,790.0	4,120.0	4,090.0
	Quarterly	Standing Water Level	m	271.052	270.97	271.002	270.802
	Yearly	Sulfate	mg/L	2,200.0	2,150.0	2,010.0	2,210.0
	Yearly	Total dissolved solids	mg/L	25,400.0	22,900.0	22,800.0	22,200.0
	Yearly	Zinc	mg/L	0.051	0.162	0.26	0.166

	Q1	Q2	Q3	Q4
Sampled:	20/02/2024	11/06/2024	11/07/2024	22/11/2024
Obtained:	28/02/2024	21/06/2024	23/07/2024	3/12/2024
Published:	8/03/2024	5/07/2024	2/10/2024	12/12/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
4 (W34)	Yearly	Aluminum	mg/L	0.02	0.02	0.01	0.06
	Yearly	Arsenic	mg/L	0.001	0.002	0.001	0.005
	Yearly	Barium	mg/L	0.143	0.158	0.128	0.15
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	325.0	342.0	326.0	313.0
	Yearly	Cadmium	mg/L	0.0008	0.001	0.001	0.0016
	Yearly	Calcium	mg/L	519.0	510.0	470.0	497.0
	Yearly	Chloride	mg/L	5,170.0	4,640.0	4,910.0	4,690.0
	Yearly	Chromium	mg/L	0.001	0.003	0.001	0.001
	Yearly	Cobalt	mg/L	0.005	0.004	0.004	0.004
	Quarterly	Conductivity	µS/cm	14,063.0	12,967.0	13,610.0	15,324.0
	Quarterly	Copper	mg/L	0.031	0.067	0.056	0.076
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	306.0	344.0	297.0	321.0
	Yearly	Molybdenum	mg/L	0.013	0.01	0.012	0.009
	Yearly	Nickel	mg/L	0.002	0.006	0.003	0.006
	Quarterly	pH	pH	7.1	6.73	6.84	7.19
	Yearly	Potassium	mg/L	13.0	21.0	10.0	8.0
	Yearly	Selenium	mg/L	0.02	0.03	0.02	0.02
	Yearly	Sodium	mg/L	2,240.0	2,430.0	2,160.0	2,390.0
	Quarterly	Standing Water Level	m	259.45	259.458	260.448	259.848
	Yearly	Sulfate	mg/L	765.0	938.0	1,250.0	1,220.0
	Yearly	Total dissolved solids	mg/L	10,800.0	9,760.0	10,200.0	10,900.0
	Yearly	Zinc	mg/L	0.097	0.277	0.233	0.252

	Q1	Q2	Q3	Q4
Sampled:	20/02/2024	12/06/2024	16/08/2024	22/11/2024
Obtained:	28/02/2024	21/06/2024	27/08/2024	3/12/2024
Published:	8/03/2024	5/07/2024	2/10/2024	12/12/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
5 (W25)	Yearly	Aluminum	mg/L	1.5	0.02	0.01	0.06
	Yearly	Arsenic	mg/L	0.002	0.001	0.001	0.004
	Yearly	Barium	mg/L	0.296	0.021	0.053	0.031
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	369.0	324.0	341.0	315.0
	Yearly	Cadmium	mg/L	0.0001	0.0001	0.0001	0.0002
	Yearly	Calcium	mg/L	220.0	177.0	194.0	212.0
	Yearly	Chloride	mg/L	94.0	129.0	71.0	53.0
	Yearly	Chromium	mg/L	0.016	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	2,845.0	2,247.0	2,348.0	2,844.0
	Quarterly	Copper	mg/L	0.02	0.018	0.021	0.014
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.002
	Yearly	Magnesium	mg/L	1.0	140.0	142.0	165.0
	Yearly	Molybdenum	mg/L	0.032	0.001	0.001	0.001
	Yearly	Nickel	mg/L	0.002	0.01	0.012	0.006
	Quarterly	pH	pH	7.57	8.08	7.92	7.14
	Yearly	Potassium	mg/L	64.0	5.0	4.0	4.0
	Yearly	Selenium	mg/L	0.01	0.03	0.03	0.02
	Yearly	Sodium	mg/L	404.0	240.0	240.0	264.0
	Quarterly	Standing Water Level	m	284.258	284.278	284.228	284.178
	Yearly	Sulfate	mg/L	1,170.0	1,100.0	1,020.0	1,520.0
	Yearly	Total dissolved solids	mg/L	2,290.0	2,050.0	2,060.0	2,470.0
	Yearly	Zinc	mg/L	0.033	0.11	0.057	0.093

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Sampled:	20/02/2024	12/06/2024	17/09/2024	22/11/2024
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Published:	8/03/2024	5/07/2024	2/10/2024	12/12/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
6 (W20)	Yearly	Aluminum	mg/L	0.01	0.02	0.02	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.034	0.031	0.045	0.043
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	530.0	590.0	590.0	595.0
	Yearly	Cadmium	mg/L	0.0004	0.0005	0.0004	0.0004
	Yearly	Calcium	mg/L	326.0	291.0	327.0	291.0
	Yearly	Chloride	mg/L	3,390.0	3,560.0	3,750.0	3,540.0
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.003	0.002	0.002	0.002
	Quarterly	Conductivity	µS/cm	12,006.0	11,077.0	12,285.0	12,825.0
	Quarterly	Copper	mg/L	0.028	0.025	0.036	0.03
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	330.0	301.0	311.0	322.0
	Yearly	Molybdenum	mg/L	0.004	0.003	0.004	0.005
	Yearly	Nickel	mg/L	0.01	0.009	0.012	0.009
	Quarterly	pH	pH	7.47	7.53	7.48	7.34
	Yearly	Potassium	mg/L	8.0	8.0	9.0	8.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	2,160.0	1,990.0	2,070.0	2,140.0
	Quarterly	Standing Water Level	m	269.291	269.501	269.581	269.491
	Yearly	Sulfate	mg/L	1,530.0	1,400.0	1,380.0	1,480.0
	Yearly	Total dissolved solids	mg/L	8,360.0	8,320.0	8,310.0	8,460.0
	Yearly	Zinc	mg/L	0.053	0.12	0.165	0.177