

Macquarie Gold Ltd
c/- 'Willowie' Delegate Road
Bombala NSW 2632
Attention: Mike Walcott

Tuesday, June 30, 2015



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number: 1506-0014

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For all enquiries related to this report please quote document number: 1506-0014

<u>Facility:</u>	<u>Order #</u>	
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	Client	02-June-2015

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
15Jun-0047	No 1 Sediment Pond 02.06.15	Alkalinity, Total as CaCO ₃	39 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	1.73 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Boron (acid extractable)	0.82 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	13.6 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	8.0 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.003 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.003 mg/L	* APHA 4500-CN E	0.002
		Conductivity	184 µS/cm	APHA 2510 B	1
		Fluoride	0.2 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO ₃	58 mg/L	APHA 2340 B	2
		Iron (acid extractable)	2.28 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	5.87 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.024 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	0.11 mg/L	APHA 3030 E/3120 B	0.02

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Water	Client	02-June-2015

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15Jun-0047	No 1 Sediment Pond 02.06.15	pH	7.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	9.0 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	11.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	12.4 mg/L	* APHA 3030 E/3120 B	0.06
		Turbidity	26 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.010 mg/L	APHA 3030 E/3120 B	0.002
15Jun-0048	No 3 Goodwin Dam Spillway 02.06.15	Alkalinity, Total as CaCO3	150 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.62 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Boron (acid extractable)	0.07 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	67.7 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	11.2 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.002 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.005 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	678 µS/cm	APHA 2510 B	1
		Fluoride	0.7 mg/L	APHA 4110 B	0.1

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15Jun-0048	No 3 Goodwin Dam Spillway 02.06.15	Total Hardness as CaCO ₃	258 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.22 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	21.7 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.047 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.1 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	5.6 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	32.0 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	62.9 mg/L	* APHA 3030 E/3120 B	0.06
		Turbidity	10 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.007 mg/L	APHA 3030 E/3120 B	0.002
15Jun-0049	No 4 Goodwin Dam Midpoint 02.06.15	Alkalinity, Total as CaCO ₃	149 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.76 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02

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15Jun-0049	No 4 Goodwin Dam Midpoint 02.06.15				
		Boron (acid extractable)	0.24 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	67.6 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	11.4 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.008 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.044 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.014 mg/L	* APHA 4500-CN E	0.002
		Conductivity	658 µS/cm	APHA 2510 B	1
		Fluoride	0.7 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	254 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.24 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	20.7 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.037 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.1 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	5.2 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	

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Water	Client	02-June-2015

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15Jun-0049	No 4 Goodwin Dam Midpoint 02.06.15	Selenium (acid extractable)	0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	29.5 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	61.9 mg/L	* APHA 3030 E/3120 B	0.06
		Turbidity	4 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.006 mg/L	APHA 3030 E/3120 B	0.002
15Jun-0050	No 5 Mine Decline 02.06.15	Alkalinity, Total as CaCO3	221 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.46 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Boron (acid extractable)	0.46 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	120 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	9.0 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.003 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.010 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	772 µS/cm	APHA 2510 B	1
		Fluoride	1.1 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	369 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.02 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01

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Water	Client	02-June-2015

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
15Jun-0050	No 5 Mine Decline 02.06.15	Magnesium (acid extractable)	16.8 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	2.42 mg/L	APHA 3030 E/3120 B	0.01
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.7 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	7.6 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	23.0 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	65.1 mg/L	* APHA 3030 E/3120 B	0.06
		Turbidity	14 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.021 mg/L	APHA 3030 E/3120 B	0.002
15Jun-0051	No 6 Downstream Spillway 02.06.15	Alkalinity, Total as CaCO3	159 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.43 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Boron (acid extractable)	0.34 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	29.6 mg/L	APHA 3030 E/3120 B	0.03

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15Jun-0051	No 6 Downstream Spillway 02.06.15	Chloride	25.1 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.002 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.006 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	465 µS/cm	APHA 2510 B	1
		Fluoride	0.3 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO ₃	132 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.06 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	14.2 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.014 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.0 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.0 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	2 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	41.0 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	17.3 mg/L	* APHA 3030 E/3120 B	0.06

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15Jun-0051	No 6 Downstream Spillway 02.06.15	Turbidity	<1 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.003 mg/L	APHA 3030 E/3120 B	0.002
15Jun-0052	No 7 Challenger Dam - exdecline 02.06.15	Alkalinity, Total as CaCO3	201 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.61 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Boron (acid extractable)	<0.02 mg/L	* APHA 3030 E/3120 B	0.02
		Cadmium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Calcium (acid extractable)	110 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	10.9 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002
		Cobalt (acid extractable)	<0.003 mg/L	* APHA 3030 E/3120 B	0.003
		Copper (acid extractable)	0.007 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	750 µS/cm	APHA 2510 B	1
		Fluoride	0.8 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	357 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.20 mg/L	APHA 3030 E/3120 B	0.01
		Lead (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	20.1 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.124 mg/L	APHA 3030 E/3120 B	0.001

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15Jun-0052	No 7 Challenger Dam - exdecline 02.06.15	Mercury	<0.0001 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Molybdenum (acid extractable)	<0.01 mg/L	* APHA 3030 E/3120 B	0.01
		Nickel (acid extractable)	<0.01 mg/L	APHA 3030 E/3120 B	0.01
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	6.8 mg/L	APHA 3030 E/3120 B	0.2
		Sodium Adsorption Ratio	1 Ratio	LTM-W-039	
		Selenium (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Sodium (acid extractable)	22.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	69.4 mg/L	* APHA 3030 E/3120 B	0.06
		Turbidity	7 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.003 mg/L	APHA 3030 E/3120 B	0.002

Note:

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LABORATORY ANALYSIS REPORT

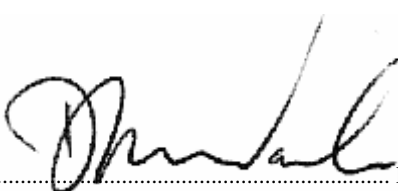
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For all enquiries related to this report please quote document number: 1506-0014

<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	Client	02-June-2015

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
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Signed  David Wade, Laboratory Manager.

*All samples analysed as received.
All soil results are reported on a dry basis.
The EAL takes no responsibility for the end use of results within this report.
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This report replaces any previously issued report*