

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

Wednesday, August 26, 2015



NATA Accredited Laboratory
Number: 9597

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INTERIM LABORATORY ANALYSIS REPORT

Report Number: 1508-0077

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For all enquiries related to this report please quote document number: 1508-0077

<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	Mealnie Maher	19-August-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>
15Aug-0292	Water from Decline 13.08.15 11.00am	Alkalinity, Total as CaCO3	187 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.89 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	1.85 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)	113 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	7.2 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)	0.028 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	I/S mg/L	* APHA 4500-CN E	0.002
		Conductivity	712 µS/cm	APHA 2510 B	1
		Fluoride	0.9 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	355 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.92 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)	17.6 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.492 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	Pending mg/L	Analysis by Ecovise, 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

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15Aug-0292	Water from Decline 13.08.15 11.00am	Oil & Grease	I/S mg/L	APHA 5520 D	1
		Phosphorus	0.01 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	6.4 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)	22.0 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	68.0 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	I/S mg/L	APHA 2540 D	2
		Turbidity	11 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.059 mg/L	APHA 3030 E/3120 B	0.002
15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am	Alkalinity, Total as CaCO3	68 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	2.82 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	0.48 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
		Chloride	5.2 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

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15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am				
		Copper (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.009 mg/L	* APHA 4500-CN E	0.002
		Conductivity	279 µS/cm	APHA 2510 B	1
		Fluoride	0.2 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	116 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.73 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)	10.2 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.038 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	Pending 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
		Oil & Grease	I/S mg/L	APHA 5520 D	1
		Phosphorus	0.04 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.8 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.0 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)	12.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	22.2 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	20 mg/L	APHA 2540 D	2
		Turbidity	50 NTU	APHA 2130 B	1

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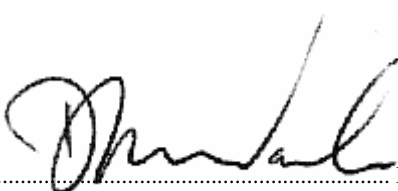
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15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am	Zinc (acid extractable)	0.006 mg/L	APHA 3030 E/3120 B	0.002

Note:

*NATA accreditation not held for tests marked with **

Signed  David Wade, Laboratory Manager.

*All samples analysed as received.
All soil results are reported on a dry basis.
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This report replaces any previously issued report*

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15Aug-0292	Water from Decline 13.08.15 11.00am				
		Alkalinity, Total as CaCO ₃	187 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.89 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	1.85 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)	113 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	7.2 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)	0.028 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	I/S mg/L	* APHA 4500-CN E	0.002
		Conductivity	712 µS/cm	APHA 2510 B	1
		Fluoride	0.9 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO ₃	355 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.92 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)	17.6 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.492 mg/L	APHA 3030 E/3120 B	0.001
		Mercury	<0.0001 mg/L	Analysis by Ecovise, 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

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Water	Mealnie Maher	19-August-2015

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15Aug-0292	Water from Decline 13.08.15 11.00am	Oil & Grease	I/S mg/L	APHA 5520 D	1
		Phosphorus	0.01 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	6.4 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)	22.0 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	68.0 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	I/S mg/L	APHA 2540 D	2
		Turbidity	11 NTU	APHA 2130 B	1
		Zinc (acid extractable)	0.059 mg/L	APHA 3030 E/3120 B	0.002
15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am	Alkalinity, Total as CaCO3	68 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	2.82 mg/L	APHA 3030 E/3120 B	0.03
		Arsenic (acid extractable)	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Boron (acid extractable)	0.48 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
		Chloride	5.2 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

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15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am				
		Copper (acid extractable)	0.004 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.009 mg/L	* APHA 4500-CN E	0.002
		Conductivity	279 µS/cm	APHA 2510 B	1
		Fluoride	0.2 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	116 mg/L	APHA 2340 B	2
		Iron (acid extractable)	1.73 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)	10.2 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.038 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
		Oil & Grease	I/S mg/L	APHA 5520 D	1
		Phosphorus	0.04 mg/L	APHA 3030 E/3120 B	0.02
		pH	7.8 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.0 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)	12.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	22.2 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	20 mg/L	APHA 2540 D	2
		Turbidity	50 NTU	APHA 2130 B	1

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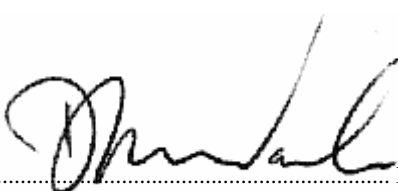
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15Aug-0293	Goodwin Dam Spillway 13.08.15 10.30am	Zinc (acid extractable)	0.006 mg/L	APHA 3030 E/3120 B	0.002

Note:

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