

1602-0080



CLIENT: Macquarie Gold (Challenger Mines)

CONTACT: Ramon Atayde / Sandra Burgess

ADDRESS: 65 Golden Gully Road
adelong NSW 2729

ABN:

TELEPHONE: 0407 729 788 **E-mail:** bwh.business@bigpond.com

ANALYTES REQUIRED Complete & tick as required

Alkalinity, BOD, CN, Ec, pH	Hardness, SAR	TSS, Turbidity	Al, As, B, Cd, Ca, Cr, Co, Cu	Fe, Pb, Mg, Mn, Hg, Mo, Ni, F	K, Se, Na, S, Zn	Oil & Grease	Cl, F												

SAMPLE IDENTIFICATION	NATURE OF SAMPLE	DATE SAMPLED	TIME SAMPLED	CONTAINER TYPE	NUMBER OF CONTAINERS
#3 Goodwin Dam Spillway	Water	12.2.16	08.55	Plastic/glass	1
#3 Goodwin Dam Spillway	Water	12.2.16	08.55	Plastic/glass	1

Please supply a brown glass O&G bottle if Oil and grease is required as well as a 1L plastic

RELINQUISHED BY:	NAME	SIGNATURE	ORGANISATION	DATE	TIME
	Joanne Luff	<i>Joanne Luff</i>	Challenger Mine	12.2.16	
Mode of Transport Include Consignment Note # if applicable					
RECEIVED BY:					

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

Wednesday, March 2, 2016



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number:1602-0080

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For all enquiries related to this report please quote document number: 1602-0080

Facility:	Order # Job Work Order 213
Sample Type	Collected By J Luff
Water	Date Received 15-February-2016

<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>
16Feb-0314	#3 Goodwin Dam Spillway 12.02.16 08:55	Alkalinity, Total as CaCO3	75 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	1.13 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)	<0.02 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)	22.3 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	6.3 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)	0.002 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	375 µS/cm	APHA 2510 B	1
		Fluoride	0.5 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	115 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.38 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)	14.5 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.004 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

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Facility:	Order # Job Work Order 213
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Water	Date Received 15-February-2016

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16Feb-0314	#3 Goodwin Dam Spillway 12.02.16 08:55	Oil & Grease	<1 mg/L	APHA 5520 D	1
		Phosphorus	<0.02 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.9 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	4.1 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)	26.8 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	32.5 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	6 mg/L	APHA 2540 D	2
		Turbidity	6 NTU	APHA 2130 B	1
		Zinc (acid extractable)	<0.002 mg/L	APHA 3030 E/3120 B	0.002

Note:

*NATA accreditation not held for tests marked with **

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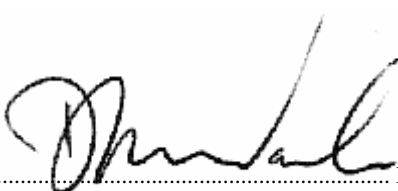
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Water	J Luff	15-February-2016

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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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