

1511-0102



CLIENT:				Macquarie Gold (Challenger Mines)						ANALYTES REQUIRED Complete & tick as required																																		
CONTACT:				Brett Hampel/Ramon Atayde						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																											
ADDRESS:				65 Golden Gully Road adelong NSW 2729																																								
TELEPHONE:				0407 729 788		E-mail		bwh.business@bigpond.com																																				

SAMPLE IDENTIFICATION	NATURE OF SAMPLE	DATE SAMPLED	TIME SAMPLED	CONTAINER TYPE	NUMBER OF CONTAINERS	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																										
#3 Goodwin dam spillway	water	19-11-15	9-30	Plastic/glass	1																																		
#3 Goodwin dam spillway	water	19-11-15	9-30	Plastic/glass	2																																		

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
	Melanie Maher	<i>Melanie Maher</i>	Challenger mine	19-11-15	11.00
Mode of Transport Include Consignment Note # if applicable	Pack & send				
RECEIVED BY:					

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

Friday, December 4, 2015



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number: 1511-0102

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Facility:	Order # Job Works Order 131
Sample Type	Collected By M Maher
Water	Date Received 20-November-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>
15Nov-0470	#4 Goodwin Dam Spillway 19.11.15 9.30am	Alkalinity, Total as CaCO3	114 mg/L	APHA 2320 B	2
		Aluminium (acid extractable)	0.88 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)	0.05 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)	42.4 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	5.6 mg/L	APHA 4110 B	0.1
		Chromium (acid extractable)	0.009 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)	0.003 mg/L	APHA 3030 E/3120 B	0.002
		Cyanide	<0.002 mg/L	* APHA 4500-CN E	0.002
		Conductivity	446 µS/cm	APHA 2510 B	1
		Fluoride	0.4 mg/L	APHA 4110 B	0.1
		Total Hardness as CaCO3	171 mg/L	APHA 2340 B	2
		Iron (acid extractable)	0.52 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)	15.8 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.034 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 Works Order 131
Sample Type	Collected By M Maher
Water	Date Received 20-November-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>
15Nov-0470	#4 Goodwin Dam Spillway 19.11.15 9.30am	Oil & Grease	4 mg/L	APHA 5520 D	1
		Phosphorus	0.03 mg/L	APHA 3030 E/3120 B	0.02
		pH	8.2 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	2.6 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)	15.6 mg/L	APHA 3030 E/3120 B	0.05
		Sulphur (acid extractable)	32.1 mg/L	* APHA 3030 E/3120 B	0.06
		Total Suspended Solids	12 mg/L	APHA 2540 D	2
		Turbidity	3 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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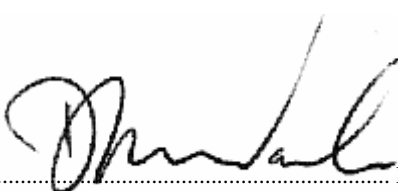
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Facility:	Order # Job Works Order 131	
Sample Type	Collected By	Date Received
Water	M Maher	20-November-2015

<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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