

QUIGLIES MET TESTWORK DETAILS

FIGURE 1 : COMMINUTION TEST PROGRAMME FLOWSHEET : MT. TODD PROJECT FEASIBILITY STUDY

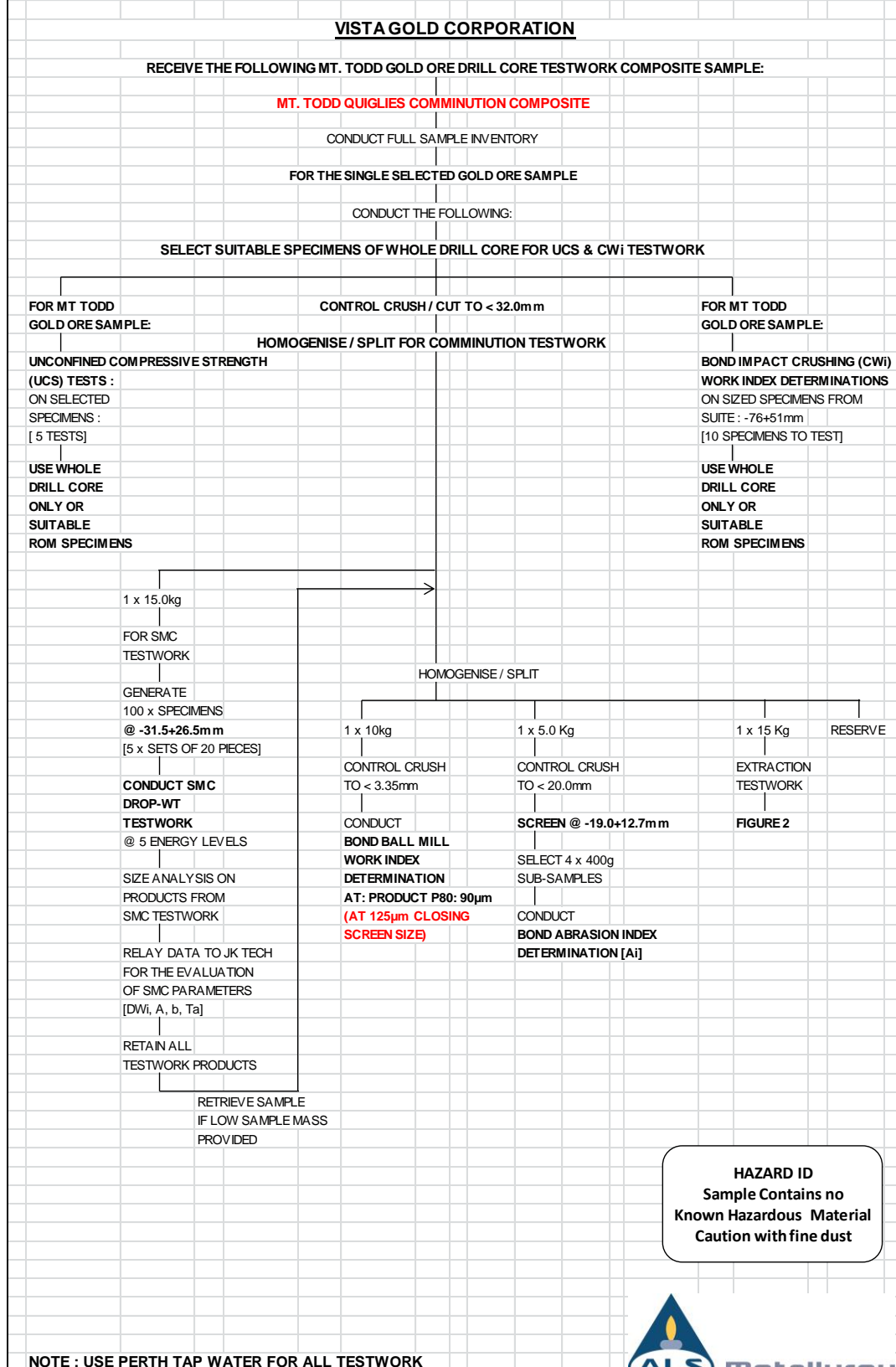


FIGURE 2: GOLD ORE COMPOSITE EXTRACTION TESTWORK PROGRAMME FLOWSHEET : MT. TODD PROJECT FEASIBILITY STUDY

VISTA GOLD CORPORATION

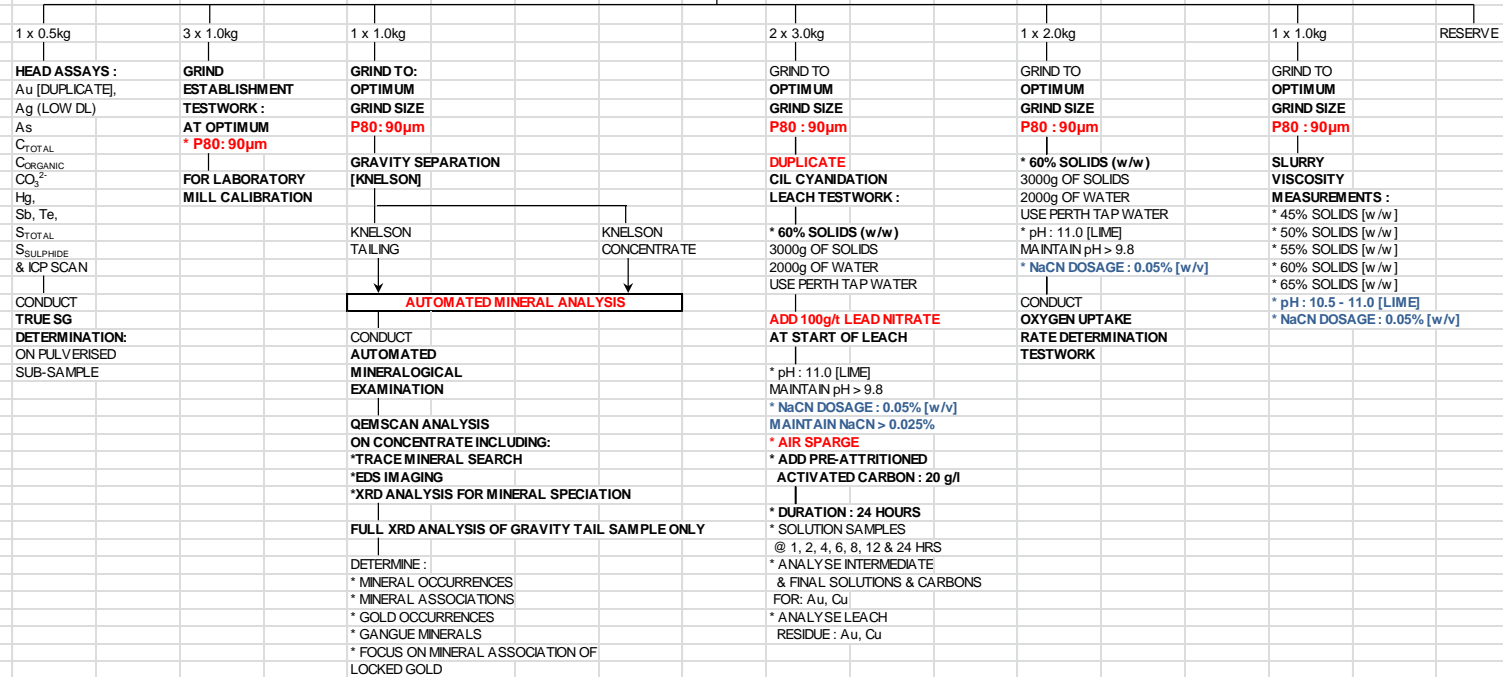
RECEIVE 3 SAMPLES OF GOLD ORE FROM THE MT TODD QUIGLIES DEPOSIT

VQ11-001
VQ11-002
VQ11-003

FOR EACH SAMPLE, SEPARATELY CONDUCT THE FOLLOWING:

CONTROL CRUSH TO < 3.35mm

HOMOGENISE / SPLIT



HAZARD ID
Sample Contains no Known Hazardous Material
Caution with fine dust

NOTE : USE PERTH TAP WATER FOR ALL TESTWORK



VISTA GOLD CORPORATION : MT TODD GOLD ORE SAMPLE - PRELIMINARY STUDY TESTWORK

FIGURE 1 : GOLD ORE SAMPLE PREPARATION & COMMINUTION TESTWORK

- 1 Receive gold ore sample - weigh / conduct sample inventory
- 2 Prepare Mt Todd gold ore composite sample
- 3 Select suitable specimens for UCS and Cwi testwork
- 4 Unconfined compressive strength (UCS) determination - 5 tests
- 5 Bond impact crushing work index (Cwi) testwork
- 6 Control crush bulk gold ore composite to < 32.0mm
- 7 Homogenise / split bulk gold ore sample for comminution testwork
- 8 Conduct SMC testwork
- 9 Bond ball mill work index det'n on Bond Master Comp. (125µm closing screen size)
- 10 Bond Abrasion index determination

FIGURE 2 : GOLD ORE SAMPLE EXTRACTION TESTWORK

- 11 Control crush suitable sub-sample to < 3.35mm
- 12 Homogenise / split -3.35mm ore for extraction testwork
- 13 Comprehensive head assays on gold ore
- 14 True SG determination via helium pycnometer on gold ore
- 15 Grind establishment testwork - P80: 90µm
- 16 Gravity separation via Knelson to prepare conc. & tail for QEMSCAN Mineralogy
- 17 Basic Gold QEMSCAN mineralogical analysis - resin on conc only & XRD on tail
- 18 CIL cyanidation leach testwork at optimum grind & leach conditions - Duplicate test
- 19 Oxygen uptake rate determination test at optimum conditions
- 20 Slurry Viscosity measurements on comp. sample @ 45, 50, 55, 60 & 65% solids
- 21 METALLURGICAL SUPERVISION AND REPORTING

SAMPLES SUBMITTED FOR TESTWORK:

¼ core from the three Quiglies holes has been cut packaged and weighed, details are as follows

VQ11-001 8m @ 1.76 g/t 15.5 kg ¼ core weight actual

SAMP ID	HOLE ID	FROM	TO	INTERVAL	Au g/t	Cu g/t
VS20144	VQ11-001	223	223.4	0.4	0.04	39
VS20145	VQ11-001	223.4	223.7	0.3	5.85	603
VS20146	VQ11-001	223.7	224.52	0.82	0.34	408
VS20148	VQ11-001	224.52	225.16	0.64	14.3	984
VS20149	VQ11-001	225.16	226	0.84	0.11	13
VS20150	VQ11-001	226	227	1	0.02	150
VS20151	VQ11-001	227	228.15	1.15	1.13	362
VS20152	VQ11-001	228.15	229.1	0.95	0.37	81
VS20153	VQ11-001	229.1	230.15	1.05	0.55	39
VS20154	VQ11-001	230.15	231	0.85	0.61	31
					8.0	1.76

VQ11-002 7.4m @ 0.93 g/t 13.5 kg ¼ core weight actual

SAMP ID	HOLE ID	FROM	TO	INTERVAL	Au g/t	Cu g/t
VS10233	VQ11-002	299.6	300	0.4	2.02	123
VS10234	VQ11-002	300	301	1	0.69	82
VS10235	VQ11-002	301	302	1	0.83	37
VS10236	VQ11-002	302	303	1	1.45	36
VS10238	VQ11-002	303	303.94	0.94	0.04	23
VS10239	VQ11-002	303.94	304.85	0.91	0.52	71
VS10240	VQ11-002	304.85	305.2	0.35	4.11	40
VS10241	VQ11-002	305.2	306	0.8	1.39	33
VS10242	VQ11-002	306	307	1	0.07	8
					7.4	0.93

VQ11-003 9.7m @ 2.75 g/t 18.7 kg ¼ core weight actual

SAMP ID	HOLE ID	FROM	TO	INTERVAL	Au g/t	Cu g/t
VS20479	VQ11-003	112.4	112.7	0.3	1.76	44
VS20480	VQ11-003	112.7	113.9	1.2	0.01	51
VS20481	VQ11-003	113.9	115	1.1	0.04	72
VS20482	VQ11-003	115	115.67	0.67	0.02	221
VS20484	VQ11-003	115.67	116.22	0.55	14.9	6717
VS20485	VQ11-003	116.22	116.9	0.68	3.58	3008
VS20486	VQ11-003	116.9	117.5	0.6	4.51	1893
VS20487	VQ11-003	117.5	118.17	0.67	14.1	5970
VS20488	VQ11-003	118.17	119.3	1.13	0.91	555
VS20490	VQ11-003	119.3	120.25	0.95	0.19	98
VS20491	VQ11-003	120.25	121	0.75	1.62	579
VS20492	VQ11-003	121	122.1	1.1	0.81	549
					9.7	2.75

A further 2 samples were obtained from the Quiglies ROM pad,

BWi 14.9 Kg actual of selected samples

UCS 10cm 22.2 Kg +10cm samples

Hence,

5 20lt tubs have been packed and labelled with the samples, these were sent to;

Attn Wayne Harding,
6 Macadam Place
Balcatta WA 6021

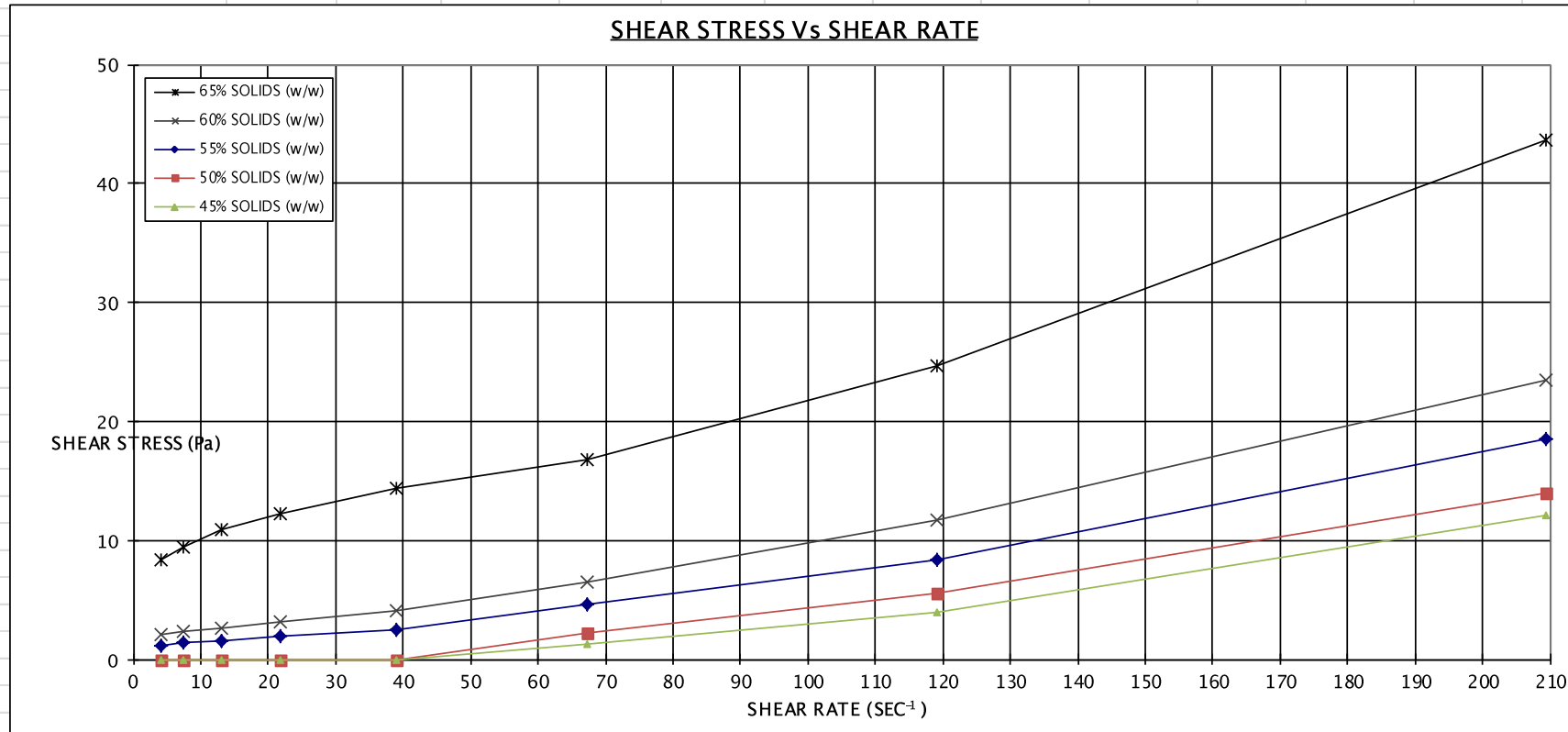
SUMMARY OF RESULTS :

The results obtained showed less than ideal recoveries from the Quiglies samples, the preliminary testwork has confirmed the earlier work carried out at Quiglies, however further work is now recommended on discrete samples to quantify the recoveries in relation to mineralogy and geospatial data.

A16157 : SLURRY RHEOLOGY TESTWORK

QUIGLEYS EXTRACTION COMPOSITE

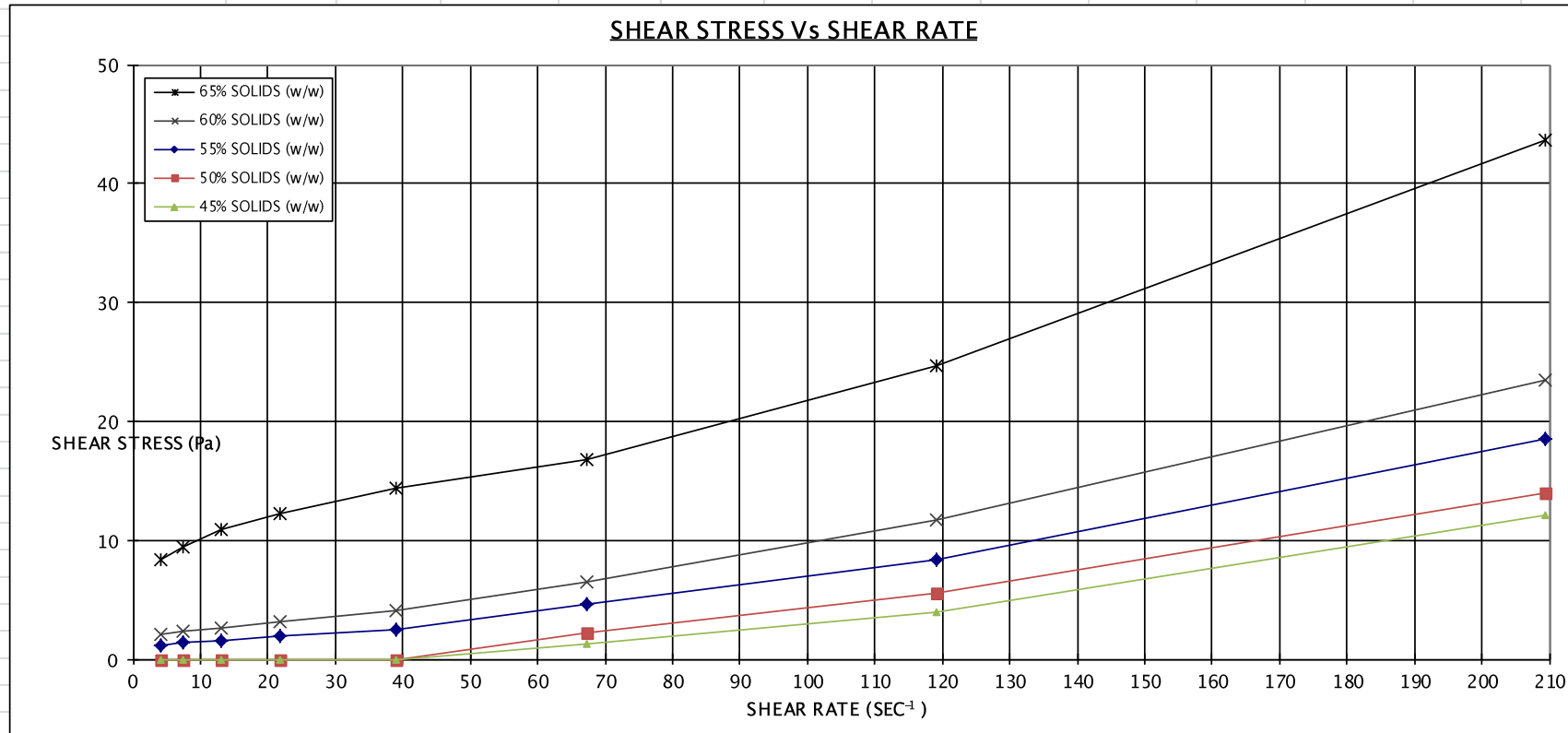
Sample Identity	Grind Size P80 (μm)	Test Water	Slurry Temp. (°C)	Pulp Density % Solids (w/w)	Bohlin Visco 88							
					Shear Stress @ Shear Rate (Sec ⁻¹)							
					4.2 (Pa)	7.4 (Pa)	13.1 (Pa)	21.9 (Pa)	38.9 (Pa)	67.4 (Pa)	119.2 (Pa)	209.5 (Pa)
QUIGLIES EXTRACTION COMPOSITE	90	Perth Tap Water	24.7	65.0	8.33	9.43	10.85	12.26	14.31	16.82	24.68	43.70
			24.6	60.0	2.04	2.36	2.67	3.14	4.09	6.45	11.63	23.42
			24.5	55.0	1.10	1.41	1.57	1.89	2.52	4.56	8.33	18.55
			24.8	50.0	0.00	0.00	0.00	0.00	0.00	2.20	5.50	13.99
			24.7	45.0	0.00	0.00	0.00	0.00	0.00	1.26	3.93	12.10



A16157 : SLURRY RHEOLOGY TESTWORK

QUIGLEYS EXTRACTION COMPOSITE

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			24.5	55.0	1.10	1.41	1.57	1.89	2.52	4.56	8.33	18.55
			24.8	50.0	0.00	0.00	0.00	0.00	0.00	2.20	5.50	13.99
			24.7	45.0	0.00	0.00	0.00	0.00	0.00	1.26	3.93	12.10



A16157 MT TODD -QUIGLIES PROJECT TESTWORK
QUIGLIES EXTRACTION COMPOSITE: HEAD ANALYSIS

ANALYTE	UNIT	QUIGLIES EXTRACTION COMPOSITE
Au	g/t	2.19 / 2.22
Ag	g/t	0.9
As	ppm	8250
Al	%	7.04
Ba	ppm	580
Be	ppm	< 20
Bi	ppm	25
C _{total}	%	0.18
C _{organic}	%	0.09
C _{carbonate}	%	0.45
Ca	ppm	1875
Cd	ppm	< 20
Co	ppm	20
Cr	ppm	25
Cu	ppm	650
Fe	%	5.56
Hg	ppm	< 0.1
K	%	3.05
Li	ppm	< 20
Mg	ppm	9200
Mn	ppm	340
Mo	ppm	< 20
Na	ppm	2400
Ni	ppm	20
P	ppm	250
Pb	ppm	220
S _{total}	%	1.98
S _{sulfide}	%	1.94
Sb	ppm	4.2
SiO ₂	%	68.2
Sr	ppm	15
Te	ppm	0.2
Ti	ppm	3000
V	ppm	65
Y	ppm	< 100
Zn	ppm	330
True SG	g/mL	2.875

ALS METALLURGY

UNCONFINED COMPRESSIVE STRENGTH DETERMINATION

PROJECT	A16157 MT TODD -QUIGLIES
CLIENT	VISTA GOLD CORPORATION
SAMPLE	QUIGLIES COMMINUTION COMPOSITE SPECIMEN # 1
DATE	Oct -14

Instrument : Servo-Tronic 2000kN machine.

Rate Of Load Application = 10 kN / minute

Sample Details :

Sample type : ROM ORE
 Diameter (mm) : 28.94
 Height (mm) : 69.11
 Area (mm²) : 657.8
 Weight (kg) : 0.120
 SG (kg/dm³) : 2.631

Test Results :

Failure At : 30.000 (kN)
 Failure Mode : SHEAR
 U.C.S. : 45.607 (mPa)

Typical Compressive Strengths :

Rock Type	U.C.S. (mPa)	
	Dry	Saturated
Basalt	106-168	85-223
Pyroclastic Basalt	143	64
Dolomite	114	95
Granite	98-119	104-114
Pyrophyritic Granite	86	95
Tourmaline Granite	158	107
Granulite	151	82
Gneiss	96-155	91-174
Granitic Gneiss	106-159	72-135
Limestone	73-85	48-98
Quartzite	256	206
Sandstone	81	73

Descriptive Strength Terms :

U.C.S. (mPa)	Strength
<6	Very Weak
6-20	Weak
20-60	Med' Strong
60-200	Strong
> 200	Very Strong