

Bureau Veritas Commodities Canada Ltd.
BV Minerals - Metallurgical Division
Metallurgical Testing Report



**CONFIRMATORY METALLURGICAL TESTING OF
SAMPLES FROM NEW DISCOVERY MINE, NWT**

Prepared for: **New Discovery Mines**
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Attention: Mr. Dave Webb

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Project No.: 1801205

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Date: July 11, 2018

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APPENDIX – TEST RESULTS

1 SUMMARY

A confirmatory metallurgical testing program was conducted on three gold-containing composite samples collected from the New Discovery gold property located in Northwest Territories to confirm the samples' amenability to the gravity+flotation process tested in the 2013 preliminary test program (BV Project No. 1306111).

As shown in the table below, the gold content in the test samples varied from 17.4- to 266.8g/t Au and averaged 156.2g/t Au. Processing of all received 243kg sample resulted in a calculated head grade of 158g/t Au. All three test composites responded very well to the gravity+flotation process. At a grind size of P₈₀ 105 µm, the combined gravity+cyanidation process yielded a promising gold recovery of 98.8% including 76.1% gravity recoverable gold.

Composite ID	Sample Weight Tested	Head Grade, g/t Au		Gold Recovery, % Au		
	kg	Measured	Calculated	Gravity	Flotation	Overall
Composite 1	75.6	17.4	16.6	79.9	18.0	97.9
Composite 2	83.8	266.8	314.8	73.2	26.0	99.3
Composite 3	83.6	170.7	128.9	75.7	23.5	99.2
Composite 1+2+3	243.0	156.2	158.0	76.1	22.7	98.8

More testing is required to optimize the process conditions.

2 INTRODUCTION

Bureau Veritas Minerals Metallurgical Division was retained by Mr. Dave Webb on behalf of New Discovery Mines (the Client) to perform confirmatory metallurgical testing on gold-bearing samples originating from the New Discovery property located in Northwest Territory.

The 2013 preliminary test program (BV Project No. 1306111) showed that a sample collected from the New Discovery property assayed 122 g/t Au and responded very well to a combined gravity + flotation process with an overall gold recovery of >99% achieved.

The objective of this metallurgical testing program was to confirm gold grade and recovery on bulk samples follow the combined gravity + flotation process used in the 2013 test program.

The scope of this study consists of sample preparation, head assay, gravity concentration and sulphide flotation.

This report summarizes the laboratory test procedures and results achieved on the test samples.

3 PROCEDURES

3.1 SAMPLE PREPARATION

Twelve samples collected from the New Discovery gold property and identified as NDM 1 to 12 were received at BV Minerals Metallurgical Lab on May 22, 2018 for this test program.

Per compositing instructions provide by the client and specified in Table 1, the 12 samples were grouped to form three test composites.

Table 1. Sample and Compositing List

Composite ID	Sample Label	Top Size	Weight (kg)	Composite (kg)
Composite 1	NDM 1	5"	17.4	76.6
	NDM 2	5"	19.2	
	NDM 3	5"	22.1	
	NDM 4	5"	18.0	
Composite 2	NDM 5	5"	18.5	85.4
	NDM 6	5"	21.1	
	NDM 7	5"	19.5	
	NDM 8	5"	26.4	
Composite 3	NDM 9	5"	19.5	84.9
	NDM 10	5"	22.9	
	NDM 11	5"	20.0	
	NDM 12	5"	22.5	

Each composite sample was stage crushed to 6-Tyler mesh, homogenized and then rotary split into 20kg test charges, and representative splits were removed and pulverized for chemical analysis.

3.2 ASSAY PROCEDURES

As the principal element of value for this project, the gold was analyzed through standard fire assay procedures. A weighed sample (30g) was mixed with fire

assay fluxes (borax, soda ash, silica, litharge) and Ag was added for inquartation. The mixture was placed in a crucible to produce a fluid slag at 1000°C. The crucible was then removed from the assay furnace and the molten charge was carefully poured from the crucible into a mould allowing the slag to separate, leaving a lead button at its base. After cooling, the lead button was placed in a preheated cupel, which absorbed the lead when cupelled at 950°C to recover the silver + gold (doré bead). Gold was then separated from the silver in the doré bead by parting with nitric acid. The remaining precious metals bead (gold) was weighed gravimetrically on a microbalance, and then dissolved in acid and analyzed by Atomic Absorption (AA) Spectrophotometer.

3.3 GRINDING AND SCREENING

Primary grinding was performed on 20kg test charges in a laboratory rod mill at a 65% solids pulp density.

Particle size distributions were measured using a Rotap™ vibrator, equipped with 20 cm (8") diameter test sieves stacked in ascending mesh sizes. The sample was initially wet screened at 37 µm (400 Tyler™ mesh). The +37 micron fraction was then dry screened through the stacked sieves. Each fraction was collected and weighed to calculate the individual and cumulative percent retained.

3.4 GRAVITY CONCENTRATION

The gravity separation was performed in two stages. Rougher gravity separation was conducted using a 3" laboratory Knelson® Gravity Centrifugal Concentrator. The samples were ground in 20kg charges to a target P80 of 105 µm in a laboratory rod mill at 65% solids. The ground material were then re-pulped to a pulp density of about 20% solids and subjected to a single pass through the gravity concentrator operated at 1psi fluidization water pressure and 120 "G" force, and the resulting primary gravity concentrate was further upgraded by hand panning to simulate cleaning. The entire cleaned concentrate was assayed for gold by standard fire assay procedures to extinction, while the gravity cleaner tail and gravity rougher tail were combined and subjected to flotation.

3.5 SULPHIDE FLOTATION

Bulk sulfide flotation tests were conducted on gravity tailings in a 156L Denver laboratory flotation machine. The flotation tests were performed in four stages using 100g/t Potassium Amyl Xanthate (PAX) and 100g/t Aerofloat 208 as mineral collectors. All resulting flotation concentrates from each test were combined and assayed for Au for metallurgical balance.

4 RESULTS AND DISCUSSION

4.1 HEAD ASSAYS

The main head assays of the three composite samples are presented in Table 2. The gold content in the test samples varied from 15.95 g/t in Composite 1 to 266.81 g/t in Composite 2. The total sulfur content was 0.58-2.93%, while total carbon content was $\leq 0.1\%$ in all three cases. Detailed head assays with multi-element ICP data are provided in Appendix.

Table 2. Main Head assays

Analyte	Unit	Composite 1	Composite 2	Composite 3
Au	g/mt	15.95	266.81	170.71
Au	g/mt	18.84	-	-
Stot	%	0.58	2.74	2.93
Ctot	%	0.03	0.10	0.09

4.2 GRAVITY+FLOTATION TEST RESULTS

The entire sample for each test composite was processed following the gravity+flotation process. Test results are summarized in Table 3, and detailed in Appendix.

Table 3. Gravity + Flotation Response

Composite ID	Sample Weight Tested	Head Grade, g/t Au		Gold Recovery, % Au		
	kg	Measured	Calculated	Gravity	Flotation	Overall
Composite 1	75.6	17.4	16.6	79.9	18.0	97.9
Composite 2	83.8	266.8	314.8	73.2	26.0	99.3
Composite 3	83.6	170.7	128.9	75.7	23.5	99.2
Composite 1+2+3	243.0	156.2	158.0	76.1	22.7	98.8

As noted in Table 3 the test samples responded very well to gravity+flotation process with a promising gravity+flotation gold recovery of 98.9% achievable,

which includes 76.1% coarse gold recovered in the gravity circuit and 22.7% fine gold recovered in the flotation circuit.

5 CONCLUSION AND RECOMMENDATION

This testing program confirmed that the New Discovery ore is amenable to gravity + flotation process.

Systematic testing is required to optimize process conditions.

HEAD ASSAY REPORT

Client: New Discovery Mines
Sample: as specified composite samples

Date: 28-May-18
Project: 1801205

Analyte	Unit	Composite 1	Composite 2	Composite 3	LDL	Method
Au	g/mt	15.95	266.81	170.71	0.005	FA
Au	g/mt	18.84	-	-	0.005	FA
Stot	%	0.58	2.74	2.93	0.02	TC000
Ctot	%	0.03	0.10	0.09	0.02	TC000
Mo	PPM	1.3	0.9	1.5	0.5	MA220
Cu	PPM	111.5	508.8	920.2	0.5	MA220
Pb	PPM	832.7	>10000.0	7276.8	0.5	MA220
Zn	PPM	494	>10000	5324	5	MA220
Ag	PPM	5.4	89.8	35.7	0.5	MA220
Ni	PPM	17.4	38.6	25.3	0.5	MA220
Co	PPM	8	31	16	1	MA220
Mn	PPM	258	201	91	5	MA220
Fe	%	2.26	3.49	3.49	0.01	MA220
As	PPM	82	283	375	5	MA220
U	PPM	1.4	<0.5	<0.5	0.5	MA220
Th	PPM	5.7	<0.5	<0.5	0.5	MA220
Sr	PPM	192	18	<5	5	MA220
Cd	PPM	2.3	46.1	37	0.5	MA220
Sb	PPM	1.1	2.2	2.5	0.5	MA220
Bi	PPM	0.8	23.5	44	0.5	MA220
V	PPM	40	30	<10	10	MA220
Ca	%	1.29	0.66	0.28	0.01	MA220
P	%	0.04	<0.01	<0.01	0.01	MA220
La	PPM	19.9	3.4	<0.5	0.5	MA220
Cr	PPM	185	236	172	1	MA220
Mg	%	0.73	0.65	0.15	0.01	MA220
Ba	PPM	160	52	22	5	MA220
Ti	%	0.162	0.065	0.018	0.001	MA220
Al	%	4.03	0.82	0.41	0.01	MA220
Na	%	1.72	0.2	0.07	0.01	MA220
K	%	0.74	0.26	0.13	0.01	MA220
W	PPM	11.9	>200.0	1.7	0.5	MA220
Zr	PPM	87.2	6.3	2.8	0.5	MA220
Ce	PPM	36	6	<5	5	MA220
Sn	PPM	<0.5	0.6	<0.5	0.5	MA220
Y	PPM	6.3	3.1	<0.5	0.5	MA220
Nb	PPM	3.1	0.6	<0.5	0.5	MA220
Ta	PPM	<0.5	<0.5	<0.5	0.5	MA220
Be	PPM	<5	<5	<5	5	MA220
Sc	PPM	7	4	<1	1	MA220
Li	PPM	13	5.5	2.2	0.5	MA220
S	%	0.6	2.7	3	0.5	MA220
Rb	PPM	16.6	5.9	3.7	0.5	MA220
Hf	PPM	1.9	<0.5	<0.5	0.5	MA220
Se	PPM	5	20	16	1	MA220

GRAVITY + FLOTATION TEST PROCEDURE

Client: New Discovery Mines
Test: GF1 - GF3
Sample: Composite 1 Gravity Tailings GF1 - GF3

Date: 5-Jun-18
Project: 1801205

Objective: To recover gold by gravity followed by rougher flotation on combined Knelson tails for additional gold recovery

Stage	Reagent (g/t)				Time, minutes			pH	Comments
	PAX	A208	CuSO4	MIBC	Grind	Cond.	Float		
Grind 3x25.2kg @65% solids					17'20"				Composite 1: sample weight for each gravity+flotation test: 25.2kg. All 75.6kg of Composite 1 processed in three batches.
Gravity Knelson single pass with panning									assay pan conc for Au to extinction
ROUGHER FLOTATION (on combined pan tails + gravity tails)								7.6	
Condition 1			250			3		6.4	
	25	25				2			at natural pH
Rougher Float 1				10			4.0	7.1	Brown/greyish color froth
Condition 2	25	25				1			
Rougher Float 2				3			4.0	7.4	Similar to Ro. Float 1
Condition 3	25	25				1			
Rougher Float 3				-			4.0	7.7	
Condition 4	25	25				1			
Rougher Float 4				-			4.0	7.9	Assay cut of Ro Conc and cut tails for: Au, S
TOTAL REAGENTS ADDITION									
	100	100	250	13					

Flotation Stage	Cell Size (L)	RPM	Air Rate,L/min
Rougher	56		as req

Observations (settling filtration)

Final Tail Good

Final Conc Good

Water Source & temp. = Municipal Potable °C

COMPOSITE 1 OVERALL GRAVITY + FLOTATION TEST SUMMARY

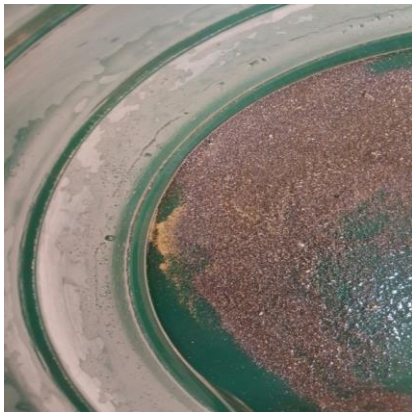
Client: New Discovery Mines
Test: GF1 - GF3
Sample: Composite 1 (NDM 1-4)

Date: 8-Jun-18
Project: 1801205

Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105 μ m

Composite 1 Gravity+Flotation

Product	Weight		Assay Au (g/t)	Distribution Au (%)
	(g)	(%)		
<u>Gravity Separation</u>				
Pan Concentrate (GF1 - GF3)	13.50	0.02	74060	79.9
<u>Flotation on Gravity Tail +Pan Tail</u>				
Rougher Concentrate	5,239.8	6.9	43.08	18.0
Gravity+Flotation	5,253.3	6.9	233.32	97.9
Flotation Tails	70,346.7	93.1	0.38	2.1
Calculated Head	75,600.0	100.0	16.56	100.0
Measured Head			17.40	



Picture 1. Panning of GF1 gravity concentrate



Picture 2. Au beads from fire-assaying of GF1-GF3 pan conc.

GRAVITY + FLOTATION TEST SUMMARY

Client: New Discovery Mines
Test: GF1 - GF3
Sample: Composite 1 (NDM 1-4)

Date: 8-Jun-18
Project: 1801205

Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105µm

GF 1 Gravity+Flotation

Primary grind P80=96µm

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	4.34	0.02	76148	-	80.5	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	1,414.7	5.6	49.83	8.80	17.2	85.3
Gravity+Flotation	1,419.0	5.6	282.57	8.77	97.7	85.3
Flotation Tails	23,781.0	94.4	0.40	0.09	2.3	14.7
Calculated Head	25,200.0	100.0	16.28	0.58	100.0	100.0
Measured Head			17.40	0.58		

GF 2 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	4.76	0.02	64753	-	77.1	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	1,899.1	7.5	43.69	6.63	20.8	88.5
Gravity+Flotation	1,903.8	7.6	205.41	6.61	97.9	88.5
Flotation Tailings	23,296.2	92.4	0.36	0.07	2.1	11.5
Calculated Head	25,200.0	100.0	15.85	0.56	100.0	100.0
Measured Head			17.40	0.58		

GF 3 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	4.40	0.02	82057	-	81.7	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	1,926.1	7.6	37.52	5.95	16.3	87.6
Gravity+Flotation	1,930.5	7.7	224.63	5.94	98.1	87.6
Flotation Tailings	23,269.5	92.3	0.37	0.07	1.9	12.4
Calculated Head	25,200.0	100.0	17.55	0.52	100.0	100.0
Measured Head			17.40	0.58		

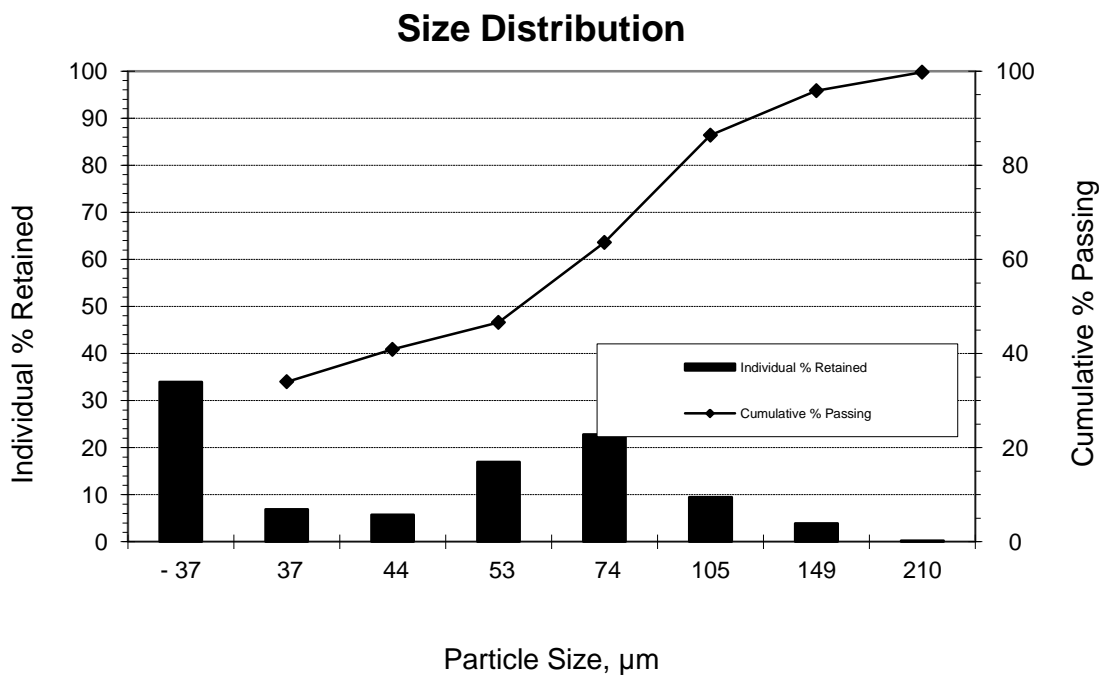
SIZE ANALYSIS REPORT

Client: New Discovery Mines
Test: GF1 - GF3
Sample: Composite 1 Gravity Tailings
Grind: 25.2kg sample ground at 65% solids for 17'20" in big mill

Date: 5-Jun-18
Project: 1801205

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	210	0.3	99.7
100	149	3.9	95.8
150	105	9.5	86.4
200	74	22.8	63.6
270	53	17.0	46.6
325	44	5.7	40.9
400	37	6.9	34.0
Undersize	- 37	34.0	-
TOTAL:		100.0	

80 % Passing Size (μm) = 96



GRAVITY + FLOTATION TEST PROCEDURE

Client: New Discovery Mines

Test: GF8 - GF11

Sample: Composite 2 Gravity Tailings GF8 - GF11

Date: 27-Jun-18

Project: 1801205

Objective: To recover gold by gravity followed by rougher flotation on combined Knelson tails for additional gold recovery

Stage	Reagent (g/t)				Time, minutes			pH	Comments
	PAX	A208	CuSO4	MIBC	Grind	Cond.	Float		
Grind 4x20.95kg @65% solids					15'50"				Composite 2: sample weight for each gravity+flotation test: 20.95kg. All 83.8kg of Composite 2 processed in four batches.
Gravity Knelson single pass with panning									assay pan conc for Au to extinction
ROUGHER FLOTATION (on combined pan tails + gravity tails)							8.2		
Condition 1			250			3		6.6	
Rougher Float 1	25	25				2		7.3	at natural pH
				31				6.0	
Condition 2	25	25				1			
Rougher Float 2				5				4.0	7.4
Condition 3	25	25				1			
Rougher Float 3				5				4.0	7.7
Condition 4	25	25				1			
Rougher Float 4				-				4.0	7.9
									Assay cut of Ro Conc and cut tails for: Au, S
TOTAL REAGENTS ADDITION									
	100	100	250	41					

Flotation Stage	Cell Size (L)	RPM	Air Rate, L/min
Rougher	56		as req

Observations (settling filtration)

Final Tail Good

Final Conc Good

Water Source & temp. =

Municipal Potable °C

COMPOSITE 2 OVERALL GRAVITY + FLOTATION TEST SUMMARY

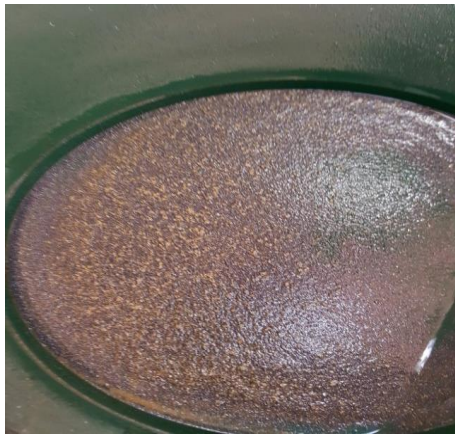
Client: New Discovery Mines
Test: GF8 - GF11
Sample: Composite 2 (NDM 5-8)

Date: 27-Jun-18
Project: 1801205

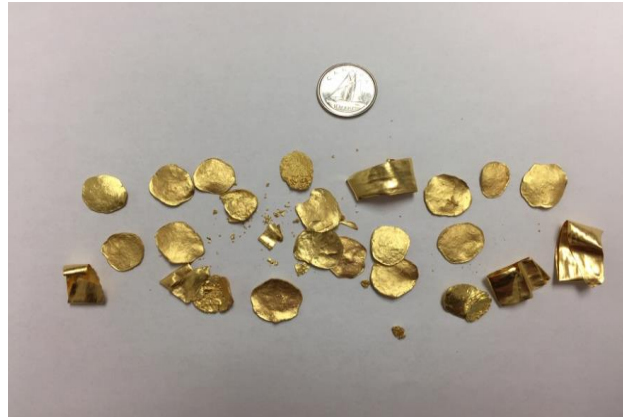
Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105 μ m

Composite 2 Gravity+Flotation

Product	Weight		Assay Au (g/t)	Distribution Au (%)
	(g)	(%)		
<i>Gravity Separation</i>				
Pan Concentrate (GF8 - GF11)	62.76	0.07	307706	73.2
<i>Flotation on Gravity Tail +Pan Tail</i>				
Rougher Concentrate	11,462.6	13.7	599.3	26.0
Gravity+Flotation	11,525.3	13.8	2271.6	99.3
Flotation Tails	72,274.7	86.2	2.7	0.7
Calculated Head	83,800.0	100.0	314.8	100.0
Measured Head			266.8	



Picture 1. Panning of GF8 gravity concentrate



Picture 2. Au beads from fire-assaying of GF8-GF11 pan conc.

GRAVITY + FLOTATION TEST SUMMARY

Client: New Discovery Mines
 Test: GF8 - GF11
 Sample: Composite 2 (NDM 5-8)

Date: 27-Jun-18
 Project: 1801205

Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105µm

GF 8 Gravity+Flotation

Primary grind P80=110µm

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	15.06	0.07	285055	-	66.7	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,988.0	14.3	701.98	19.07	32.6	96.1
Gravity+Flotation	3,003.1	14.3	2127.79	18.97	99.3	96.1
Flotation Tails	17,946.9	85.7	2.65	0.13	0.7	3.9
Calculated Head	20,950.0	100.0	307.27	2.83	100.0	100.0
Measured Head			266.81	2.74		

GF 9 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	17.55	0.08	278076	-	74.4	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,919.7	13.9	558.35	18.52	24.9	95.8
Gravity+Flotation	2,937.3	14.0	2216.58	18.41	99.3	95.8
Flotation Tailings	18,012.7	86.0	2.61	0.13	0.7	4.2
Calculated Head	20,950.0	100.0	313.02	2.69	100.0	100.0
Measured Head			266.81	2.74		

GF 10 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	15.97	0.08	306586	-	76.0	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,867.4	13.7	521.01	18.17	23.2	96.0
Gravity+Flotation	2,883.4	13.8	2216.40	18.07	99.2	96.0
Flotation Tailings	18,066.6	86.2	2.89	0.12	0.8	4.0
Calculated Head	20,950.0	100.0	307.54	2.59	100.0	100.0
Measured Head			266.81	2.74		

GF 11 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	14.18	0.07	371698	-	75.6	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,687.4	12.8	612.98	20.49	23.6	96.2
Gravity+Flotation	2,701.6	12.9	2560.57	20.38	99.3	96.2
Flotation Tailings	18,248.4	87.1	2.70	0.12	0.7	3.8
Calculated Head	20,950.0	100.0	332.55	2.73	100.0	100.0
Measured Head			266.81	2.74		

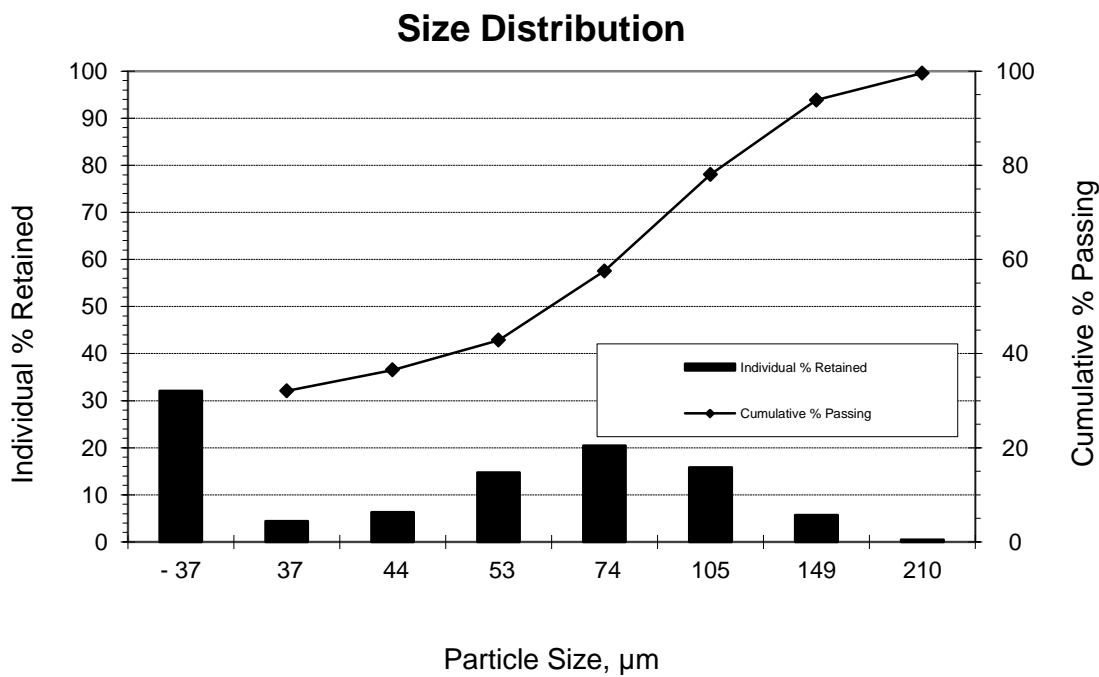
SIZE ANALYSIS REPORT

Client: New Discovery Mines
Test: GF8 - GF11
Sample: Composite 2 Gravity Tailings
Grind: 20.95kg sample ground at 65% solids for 15'50" in big mill

Date: 15-Jun-18
Project: 1801205

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	210	0.4	99.6
100	149	5.7	93.8
150	105	15.8	78.0
200	74	20.5	57.6
270	53	14.7	42.8
325	44	6.3	36.5
400	37	4.4	32.1
Undersize	- 37	32.1	-
TOTAL:		100.0	

80 % Passing Size (μm) = 110



COMPOSITE 3 OVERALL GRAVITY + FLOTATION TEST SUMMARY

Client: New Discovery Mines
Test: GF4 - GF7
Sample: Composite 3 (NDM 9-12)

Date: 14-Jun-18
Project: 1801205

Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105 μ m

Composite 3 Gravity+Flotation

Product	Weight		Assay Au (g/t)	Distribution Au (%)
	(g)	(%)		
<u>Gravity Separation</u>				
Pan Concentrate (GF4 - GF7)	35.27	0.04	243868	75.7
<u>Flotation on Gravity Tail +Pan Tail</u>				
Rougher Concentrate	10,299.8	12.3	259.5	23.5
Gravity+Flotation	10,335.1	12.4	1090.8	99.2
Flotation Tails	73,264.9	87.6	1.3	0.8
Calculated Head	83,600.0	100.0	136.0	100.0
Measured Head			170.7	



Picture 1. Panning of GF4 gravity concentrate



Picture 2. Au beads from fire-assaying of GF4-GF7 pan conc.

GRAVITY + FLOTATION TEST SUMMARY

Client: New Discovery Mines
 Test: GF4 - GF7
 Sample: Composite 3 (NDM 9-12)

Date: 14-Jun-18
 Project: 1801205

Objective: To recover Au by gravity separation followed by flotation at target primary grind size P80 of 105µm

GF 4 Gravity+Flotation

Primary grind P80=109µm

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	8.77	0.04	244665	-	79.6	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,310.0	11.1	228.26	22.08	19.6	96.1
Gravity+Flotation	2,318.8	11.1	1152.66	22.00	99.2	96.1
Flotation Tails	18,581.2	88.9	1.14	0.11	0.8	3.9
Calculated Head	20,900.0	100.0	128.90	2.54	100.0	100.0
Measured Head			170.71	2.93		

GF 5 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	9.44	0.05	227363	-	75.4	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,560.0	12.2	264.02	22.22	23.7	96.6
Gravity+Flotation	2,569.4	12.3	1098.55	22.14	99.1	96.6
Flotation Tailings	18,330.6	87.7	1.41	0.11	0.9	3.4
Calculated Head	20,900.0	100.0	136.29	2.82	100.0	100.0
Measured Head			170.71	2.93		

GF 6 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	8.77	0.04	252488	-	76.1	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,662.7	12.7	253.71	18.61	23.2	97.1
Gravity+Flotation	2,671.5	12.8	1082.04	18.55	99.3	97.1
Flotation Tailings	18,228.5	87.2	1.16	0.08	0.7	2.9
Calculated Head	20,900.0	100.0	139.32	2.44	100.0	100.0
Measured Head			170.71	2.93		

GF 7 Gravity+Flotation

Product	Weight		Assay		Distribution	
	(g)	(%)	Au (g/t)	S (%)	Au (%)	S (%)
<u>Gravity Separation</u>						
Pan Concentrate	8.28	0.04	252709	-	71.9	
<u>Flotation on Gravity Tail +Pan Tail</u>						
Rougher Concentrate	2,767.1	13.2	287.02	20.55	27.3	97.2
Gravity+Flotation	2,775.4	13.3	1040.45	20.49	99.1	97.2
Flotation Tailings	18,124.6	86.7	1.40	0.09	0.9	2.8
Calculated Head	20,900.0	100.0	139.38	2.80	100.0	100.0
Measured Head			170.71	2.93		

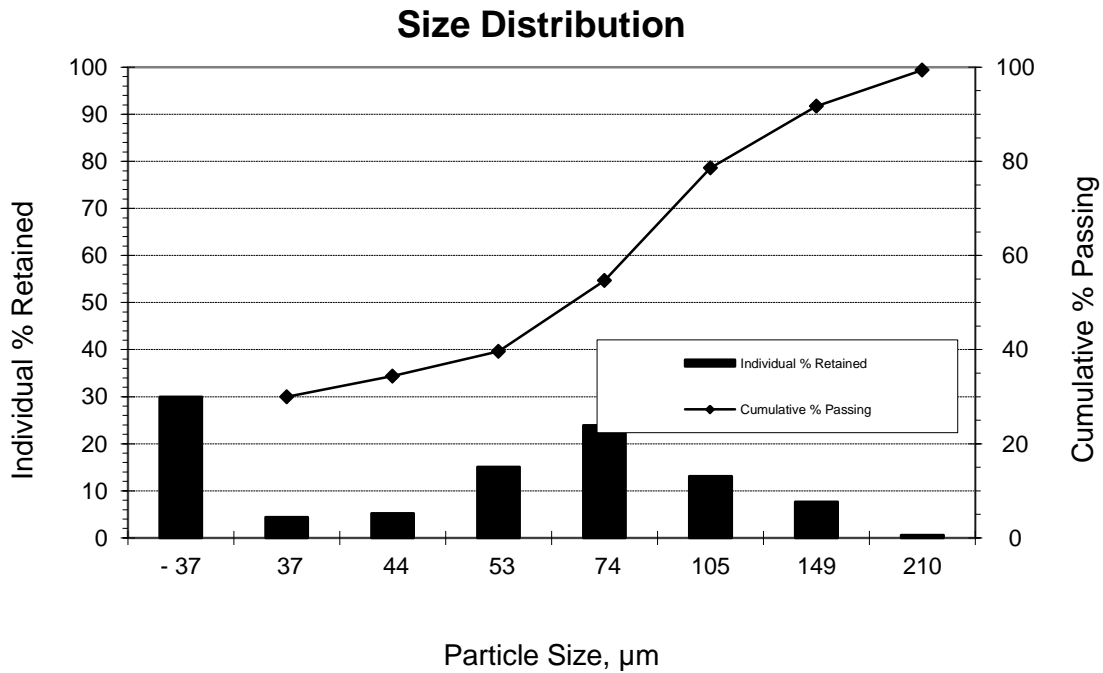
SIZE ANALYSIS REPORT

Client: New Discovery Mines
Test: GF4 - GF7
Sample: Composite 3 Gravity Tailings
Grind: 20.9kg sample ground at 65% solids for 15'40" in big mill

Date: 7-Jun-18
Project: 1801205

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	210	0.6	99.4
100	149	7.6	91.7
150	105	13.1	78.6
200	74	23.9	54.7
270	53	15.0	39.6
325	44	5.2	34.4
400	37	4.4	30.0
Undersize	- 37	30.0	-
TOTAL:		100.0	

80 % Passing Size (μm) = 109



SIZE ANALYSIS REPORT

Client: New Discovery Mines

Date: 28-May-18

Test: TG 1

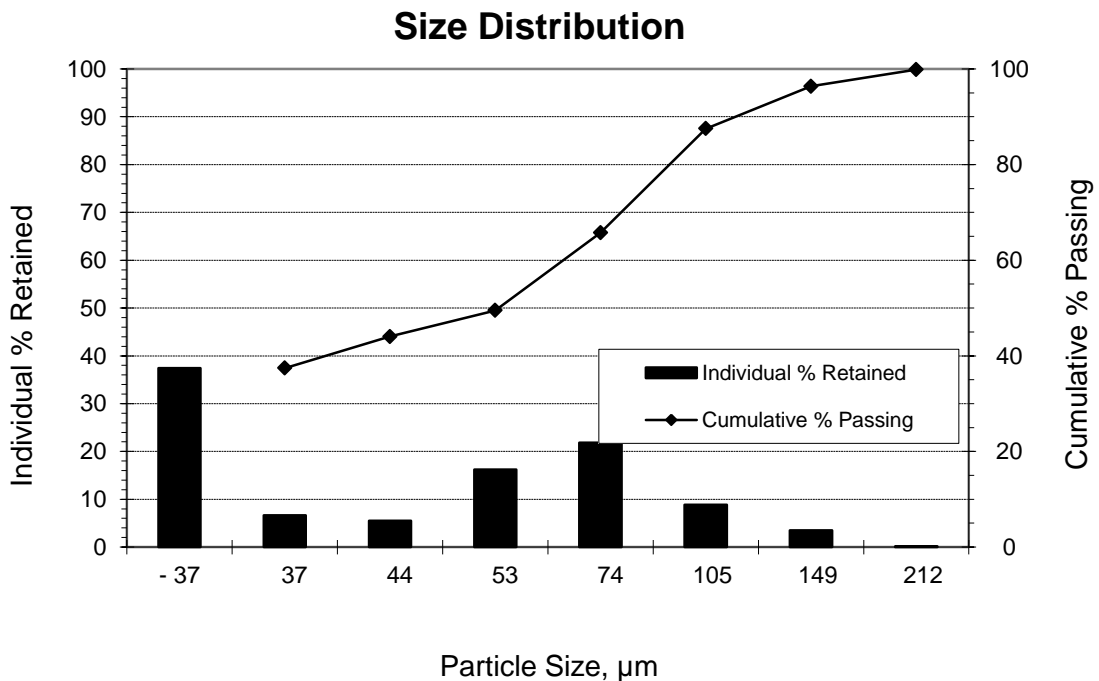
Project: 1801205

Sample: Composite 1 (NDM 1-4)

Grind: 25.2kg sample ground @65% solids for 18 minutes in big mill

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	212	0.2	99.8
100	149	3.5	96.4
150	105	8.9	87.5
200	74	21.8	65.7
270	53	16.2	49.5
325	44	5.5	44.0
400	37	6.6	37.4
Undersize	- 37	37.4	-
TOTAL:		100.0	

80 % Passing Size (μm) = 94



SIZE ANALYSIS REPORT

Client: New Discovery Mines

Date: 29-May-18

Test: TG 2

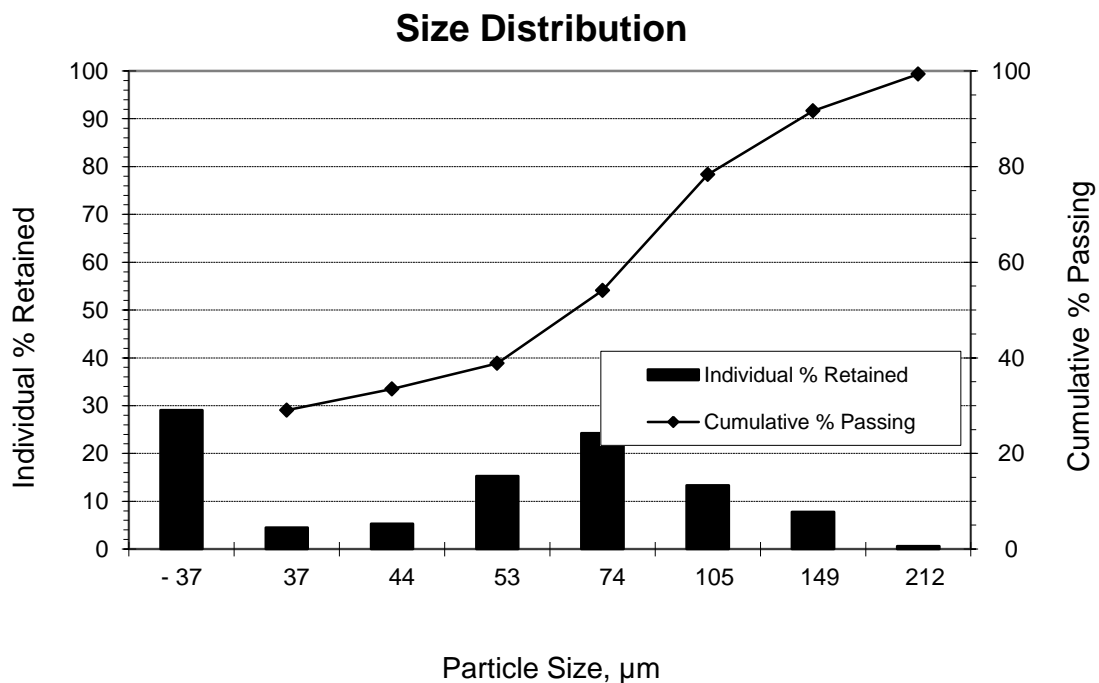
Project: 1801205

Sample: Composite 1 (NDM 1-4)

Grind: 20.9kg sample ground @65% solids for 15 minutes in big mill

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	212	0.6	99.4
100	149	7.7	91.6
150	105	13.3	78.3
200	74	24.3	54.1
270	53	15.2	38.8
325	44	5.3	33.5
400	37	4.5	29.0
Undersize	- 37	29.0	-
TOTAL:		100.0	

80 % Passing Size (μm) = 110



SIZE ANALYSIS REPORT

Client: New Discovery Mines

Date: 1-Jun-18

Test: TG 3

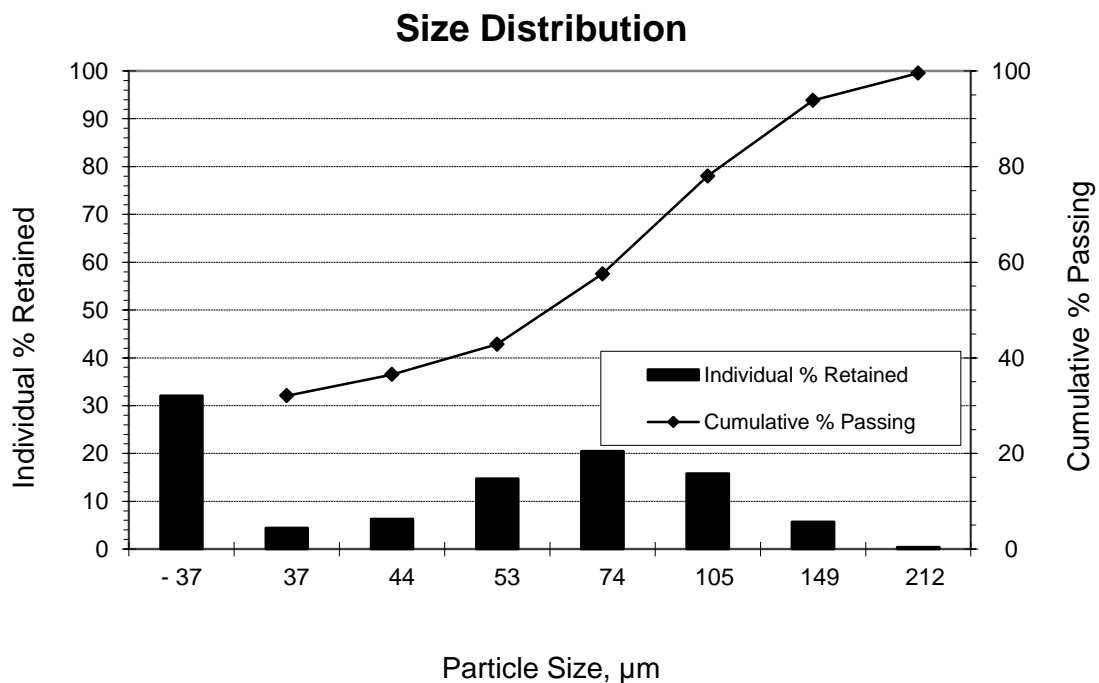
Project: 1801205

Sample: Composite 2 (NDM 5-8)

Grind: 20.95kg sample ground @65% solids for 15'40"minutes in big mill

Sieve Size		Individual	Cumulative
Tyler Mesh	Micrometers	% Retained	% Passing
65	212	0.4	99.6
100	149	5.7	93.8
150	105	15.8	78.0
200	74	20.5	57.6
270	53	14.7	42.8
325	44	6.3	36.5
400	37	4.4	32.1
Undersize	- 37	32.1	-
TOTAL:		100.0	

80 % Passing Size (μm) = 110



ASSAY REPORT

Client: New Discovery Mines
Sample: as specified flotation concentrate

Date: 21-Jun-18
Project: 1801205

Analyte	Unit	Rougher Concentrate from Composite 1	Rougher Concentrate from Composite 2	Rougher Concentrate from Composite 3	LDL	Method
P80 size	µm	63.2	89.5	98.1	0.1	Malvern Master Sizer
Au	g/mt	43.0	259.5	599.3	0.1	FA
Stot	%	7.30	19.19	22.37	0.02	TC000
S-2	%	5.61	12.41	17.67	0.02	TC008
Ctot	%	0.17	0.15	0.26	0.02	TC000
Cgra	%	<0.01	0.02	0.1	0.01	TC005
Hg	ppm	0.12	1.39	0.61	0.01	AQ200
Mo	PPM	43.2	30.0	36.3	0.5	MA220
Cu	PPM	1756.4	6884.6	3556.4	0.5	MA220
Pb	PPM	7698.6	>10000.0	>10000.0	0.5	MA220
Zn	PPM	5715	>10000	>10000	5	MA220
Ag	PPM	25.4	129.4	196.3	0.5	MA220
Ni	PPM	169.8	193.6	277.4	0.5	MA220
Co	PPM	82	122	237	1	MA220
Mn	PPM	406	183	315	5	MA220
Fe	%	12.18	20.7	17.3	0.01	MA220
As	PPM	677	2990	2189	5	MA220
U	PPM	3.1	<0.5	<0.5	0.5	MA220
Th	PPM	12.2	<0.5	<0.5	0.5	MA220
Sr	PPM	189	8	13	5	MA220
Cd	PPM	28.7	263.2	308	0.5	MA220
Sb	PPM	11.7	12.2	14.2	0.5	MA220
Bi	PPM	4.6	301.4	161.4	0.5	MA220
V	PPM	62	<10	30	10	MA220
Ca	%	1.33	0.28	0.57	0.01	MA220
P	%	0.05	<0.01	<0.01	0.01	MA220
La	PPM	52.9	0.8	4.4	0.5	MA220
Cr	PPM	186	231	229	1	MA220
Mg	%	1.14	0.16	0.66	0.01	MA220
Ba	PPM	208	18	46	5	MA220
Ti	%	0.24	0.02	0.052	0.001	MA220
Al	%	4.45	0.42	0.74	0.01	MA220
Na	%	1.67	0.07	0.15	0.01	MA220
K	%	1.02	0.1	0.18	0.01	MA220
W	PPM	21.9	2.3	>200.0	0.5	MA220
Zr	PPM	127.6	4.3	6.7	0.5	MA220
Ce	PPM	95	<5	7	5	MA220
Sn	PPM	4.7	2.6	3.7	0.5	MA220
Y	PPM	10.9	1	3.1	0.5	MA220
Nb	PPM	4.8	<0.5	<0.5	0.5	MA220
Ta	PPM	<0.5	<0.5	<0.5	0.5	MA220
Be	PPM	<5	<5	<5	5	MA220
Sc	PPM	8	<1	3	1	MA220
Li	PPM	20.9	4.5	8.5	0.5	MA220
S	%	6.7	>10.0	>10.0	0.5	MA220
Rb	PPM	22	2.5	4.5	0.5	MA220
Hf	PPM	3.2	<0.5	<0.5	0.5	MA220
Se	PPM	12	76	110	1	MA220