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Report On
Drill Core Analysis
Hyman Township
For
Skead Holdings Ltd.
By
R.A. Mac Gregor, P. Eng.
November 08, 2019

Summary

Sampling of all remaining split core in holes NA07-01, NA07-02 and NA07-03 has been completed. This analysis will give a comparison of previous assays for these three holes along with hole NA07-04 for which complete analysis has already been completed. For the remaining 27 holes sampling will be confined to samples for which rejects are not available.

Location and Access

The Hyman Township property consists of the former Agnew Lake Mine in the north central part of the township. Hyman Township is located approximately 80 km west of Sudbury and 20 km north-east of Espanola, Ontario. It can be accessed from Hwy 17 by paved and gravel roads. A good road goes right to the former Agnew Lake mine.

Previous Exploration

The property was first discovered in the 1950's and considerable drilling was done. It was further explored by Kerr Addison Mines in the 1970's and operated as a producing uranium mine from 1978 to 1983. There is reported to be a 950 metre deep six compartment shaft as well as a decline to the 580 metre level. These are reported uranium resources, not 43-101 compliant, as well as thorium and rare earth resources which do not appear to have been fully evaluated.

Work Program

Samples from core boxes which had been previously split were removed and placed in marked plastic bags noting drill hole number and metres in the core box. Previous assay numbers were also noted if available. Samples were taken from holes NA07-01, NA07-02 and NA08-03. Samples were sent to Swastika Labs for sample preparation.

Pulps were recovered from Swastika labs and a portion placed in marked envelopes and sent to Acme labs for analysis of 45 elements by ICP-MS after a 4-acid dissolution. Further Analysis is planned for Rare Earth Elements when results have been studied.

Pulps not sent for analysis have been archived in 40 dram plastic vials and stored in wooden boxes holding 91 vials each.

Analysis

Analysis of all samples was carried out by ICP-MS after 4-acid dissolution by Acme Labs. This method analyses for 45 elements. Samples showing > 500 ppm Ce were analysed by ICP-MS with a lithium borate fusion

Results

Results for U and Th are comparable to previous results, which can now be compared to previous analysis now that assay numbers are available.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. MacGregor', written in a cursive style.

R.A. MacGregor P. Eng.

November 08, 2019

Table 1

Sample Intervals

Drill Hole NA07-01

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
15.0 – 16.0	175001		9392	IMA 2363
16.0 – 16.55	175002		9391	IMA2362
16.55 – 17.55	175003		9393	IMA2364
17.55 – 18.0	175004		9390	IMA2361
18.0 – 19.0	175005		9394	IMA2365
19.0 – 20.0	175006		9395	IMA2366
20.0 – 21.0	175007		9396	IMA2367
21.0 – 22.0	175008		9397	IMA2368
22.0 – 23.0	175009		9398	IMA2369
23.0 – 24.0	175010		9399	IMA2370
24.0 – 25.0	175011		9400	IMA2371
25.0 – 26.0	175012		49201	IMA2351
26.0 – 27.0	175013		49202	IMA2352
27.0 – 28.0	175014		49203	IMA2393
28.0 – 29.0	175015		49204	IMA2394
29.0 – 30.0	175016		49205	IMA2395
30.0 – 31.0	175017		49206	IMA2396
31.0 – 32.0	175018		49207	IMA2397
32.0 – 33.0	175019		49208	IMA2398
33.0 – 34.0	175021		49209	IMA2399
34.0 – 35.0	175022		49210	IMA2400
35.0 – 36.0	175023		49211	IMA2323
36.0 – 37.0	175024		49212	IMA2324
37.0 – 38.0	175025		49213	IMA2325
38.0 – 39.0	175026		49214	IMA2326

Sample Interval (m)	Sample No.	Reject Analysis No.	½ core Sample No.	½ core Analysis No.
39.0 – 40.0	175027		49215	IMA2327
40.0 – 41.0	175028		49216	IMA2328
41.0 – 42.0	175029		49217	IMA2329
42.0 – 42.55	175031		49218	IMA2330
42.55 – 43.20	175032		49231	IMA2426
43.20 – 44.0	175033		49219	IMA2331
44.0 – 45.0	175034		49220	IMA2332
45.0 – 46.0	175035		49221	IMA2333
46.0 – 47.0	175036		49222	IMA2334
47.0 – 48.0	175037		49223	IMA2335
48.0 – 49.0	175038		49224	IMA2419
49.0 – 50.0	175039		49225	IMA2420
50.0 – 51.0	175041		49226	IMA2421
51.0 – 51.75	175042		49227	IMA2422
51.75 – 52.35	175043		49228	IMA2423
52.35 – 53.0	175044		49229	IMA2424
53.0 – 54.0	175045		49230	IMA2425
54.0 – 55.0	175046		49232	IMA2427
55.0 – 56.0	175047		49233	IMA2428
56.0 – 57.0	175048		49234	IMA2429
57.0 – 58.0	175049		49235	IMA2430
58.0 – 58.85	175050		49239	IMA2434
58.85 – 59.55	175051		49241	IMA2436
59.55 – 60.10	175052		49242	IMA2437
60.10 – 60.85	175053		49240	IMA2435

Sample Interval (m)	Reject		$\frac{1}{2}$ core	
	Sample No.	Analysis No.	Sample No.	Analysis No.
60.85 – 61.55	175054		49243	IMA2438
61.55 – 62.55	175055		49244	IMA2439
62.55 – 63.55	175056		49245	IMA2372
63.55 – 64.55	175057		49246	IMA2373
64.55 – 65.55	175058		49247	IMA2374
65.55 – 66.50	175059		49248	IMA2375
66.50 – 67.50	175062		49249	IMA2376
67.50 – 68.50	175063		49250	IMA2377
68.50 – 69.50	175064		49437	IMA2388
69.50 – 70.50	175065		49438	IMA2389
70.50 – 71.50	175066		49439	IMA2390
71.50 – 72.50	175067		49440	IMA2391
72.50 – 73.50	175068		49441	IMA2392
73.50 – 74.50	175069		49442	IMA2378
74.50 – 75.0	175070		49443	IMA2379
75.0 – 76.0	175071		49238	IMA2433
76.0 – 77.0	175072		49237	IMA2432
77.0 – 78.0	175073		49236	IMA2431
79.88 – 80.88	175074		49444	IMA2380
80.88 – 81.88	175075		49445	IMA2381
87.30 – 88.30	175076		49446	IMA2382
88.30 – 89.30	175077		49447	IMA2383
89.30 – 89.60	175078		49448	IMA2384
89.60 – 90.60	175079		49449	IMA2385
90.60 – 91.60	175081		49450	IMA2386

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
91.60 – 92.60	175082		49451	IMA2387
92.60 – 93.60	175083		49452	IMA2290
93.60 – 94.60	175084		49454	IMA2292
94.60 – 95.60	175085		49455	IMA2293
95.60 – 96.60	175086		49456	IMA2294
96.60 – 97.15	175087		49457	IMA2295
97.15 – 98.00	175088		49458	IMA2296
98.00 – 99.00	175089		49459	IMA2297
99.00 – 100.00	175091		49453	IMA2291
100.00 – 101.00	175092		49460	IMA2298
101.00 – 102.00	175093		49461	IMA2299
102.00 – 103.00	175094		49462	IMA2300
103.00 – 104.00	175095		49463	IMA2301
104.00 – 105.00	175096		49464	IMA2302
105.00 – 106.00	175097		49465	IMA2303
106.00 – 107.00	175098		49466	IMA2304
107.00 – 108.00	175099		49467	IMA2305
108.00 – 109.00	175101		49468	IMA2306
109.00 – 110.00	175102		49469	IMA2307
110.00 – 111.00	175103		49470	IMA2308
111.00 – 112.00	175104		49471	IMA2309
112.00 – 113.00	175105		49472	IMA2310
113.00 – 114.00	175106		49473	IMA2336
114.00 – 115.00	175107		49474	IMA2337
115.00 – 116.00	175108		49475	IMA2338

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
116.00 – 117.00	175109		49476	IMA2339
117.00 – 118.00	175110		49477	IMA2340
118.00 – 119.00	175111		49478	IMA2341
119.00 – 120.00	175112		49479	IMA2342
120.00 – 120.90	175113		49480	IMA2343
120.90 – 121.48	175114		49481	IMA2344
121.48 – 122.00	175115		49482	IMA2345
122.00 – 123.00	175116		49483	IMA2346
123.00 – 124.00	175117		49484	IMA2347
124.00 – 125.00	175118		49485	IMA2311
125.00 -126.00	175119		49486	IMA2312
130.00 -131.00	175121		49487	IMA2313
131.00 – 132.00	175122		49488	IMA2314
132.00 – 133.00	175123		49489	IMA2315
133.00 - 134.00	175124		49490	IMA2316
134.00 -135.00	175125		49491	IMA2317
135.00 – 135.75	175126		49492	IMA2318
135.75 – 136.20	175127		49493	IMA2319
136.20 – 137.07	175128		49494	IMA2320
137.07 – 138.00	175129		49495	IMA2321
138.00 – 139.00	175131		49496	IMA2322
139.00 – 140.00	175132		49497	IMA2267
140.00 – 141.00	175133		49498	IMA2268
141.00 -142.00	175134		49499	IMA2269
142.00 – 143.00	175135		49500	IMA2270

		Reject	½ core	½ core
Sample Interval (m)	Sample No.	Analysis No.	Sample No.	Analysis No.
143.00 – 144.00	175136		85925	IMA2271
144.00 – 144.78	175137		85926	IMA2272
144.78 – 145.41	175138		85927	IMA2273
145.41 – 146.07	175139		85928	IMA2274
146.07 – 146.92	175141		85929	IMA2275

NA07-02

		Reject	½ core	½ core
Sample Interval (m)	Sample No.	Analysis	Sample No.	Analysis No.
42.80 – 43.80	175229	IMA1906	85940	IMA2286
43.80 – 44.80	175231	IMA1908	85941	IMA2287
44.80 – 45.40	175232	IMA1909	85942	IMA2288
45.40 – 46.00	175233	IMA1910	85943	IMA2289
52.30 – 53.30	175234	IMA1911	85944	IMA2546
57.15 – 58.00	175235	IMA1912	85947	IMA2549
58.00 – 59.00	175236		85946	IMA2548
59.00 – 60.00	175237		85945	IMA2547
60.00 – 60.70	175238		85948	IMA2568
60.70 – 61.40	175239		85949	IMA2567
61.40 – 62.00	175241		85989	IMA2530
62.00 – 63.00	175242		85988	IMA2529
63.00 – 63.90	175243		85950	IMA2566
66.47 – 67.47	175244		85990	IMA2531
73.69 – 74.69	175245		85991	IMA2532
74.69 – 75.26	175246		85992	IMA2533
75.26 – 75.96	175247		85993	IMA2534
75.96 – 76.96	175248		85994	IMA2535
79.40 – 80.40	175249		85995	IMA2536
80.40 – 81.30	175250		85996	IMA2537
81.30 – 82.00	175251		85997	IMA2538
82.00 – 83.00	175252		85998	IMA2539
83.00 – 84.00	175253		85999	IMA2565
84.00 – 85.00	175254		86000	IMA2564
85.00 – 86.00	175255		85707	IMA2541
86.00 – 87.00			85708	IMA2542

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
87.00 – 88.00	175257		85709	IMA2543
88.00 – 89.00	175258		85710	IMA2544
89.00 – 90.00	175259		85711	IMA2545
90.00 – 91.00	175262		85706	IMA2540
91.00 – 92.00	175263		71094	IMA2063
92.00 – 93.00	175264		71093	IMA2062
93.00 – 94.00	175265		71092	IMA2079
94.00 – 95.00	175266		71091	IMA2078
95.00 – 96.00	175267		71087	IMA2074
96.00 – 97.00	175268		71088	IMA2075
97.00 – 98.00	175269		71089	IMA2076
98.00 – 99.00	175270		71090	IMA2077
99.00 – 100.0	175271		71095	IMA2064
100.00 – 101.00	175272		71096	IMA2065
101.0 – 102.00	175273		71097	IMA2066
102.00 – 103.00	175274		71098	IMA2067
103.00 – 104.00	175275		71099	IMA2068
104.00 – 105.00	175276		71100	IMA2069
105.00 – 106.00	175277	IMA1913	9374	IMA2452
106.00 – 107.00	175278	IMA1903	9375	IMA2453
107.00 – 108.00	175279		9381	IMA2459
110.00 – 111.00	175281		9373	IMA2451
111.00 – 112.00	175282	IMA1914	9382	IMA2353
112.00 – 113.00	175283		9372	IMA2450
113.00 – 114.00	175284	IMA1915	9370	IMA2448
114.00 – 115.00	175285		9371	IMA2449

		Reject	½ core	½ core
Sample Interval (m)	Sample No.	Analysis No.	Sample No.	Analysis No.
115.00 – 116.00	175286		9376	IMA2454
116.00 – 117.00	175287		9377	IMA2455
117.00 – 118.00	175288		9378	IMA2456
118.00 – 119.00	175289		9379	IMA2457
119.00 – 120.00	175291		9380	IMA2458
139.00 – 140.00	175292	IMA1916	9383	IMA2354
140.00 – 141.00	175293	IMA1917	9384	IMA2355
141.00 – 141.70	175294	IMA1918	9385	IMA2356
141.70 – 142.30	175295		9386	IMA2357
142.30 – 143.20	175296		9387	IMA2358
143.20 – 144.20	175297		9388	IMA2359
144.20 – 145.20	175298		9389	IMA2360

NA07-03

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
23.00 – 24.00	175299		9195	IMA2217
24.00 – 25.00	175301		9196	IMA2218
25.00 – 26.00	175302		9197	IMA2219
26.00 – 26.75	175303		9198	IMA2220
30.72 – 31.50	175304		9199	IMA2221
31.50 – 33.00	175305		9200	IMA2222
33.00 – 34.00	175306		71078	IMA2178
34.00 – 35.00	175307		71079	IMA2179
37.60 – 38.20	175308		71080	IMA2180
38.20 – 38.80	175309		71081	IMA2181
38.80 – 39.76	175310		71082	IMA2182
39.76 – 40.60	175311		71083	IMA2070
40.60 – 41.30	175312		71084	IMA2071
41.30 – 42.00	175313		71085	IMA2072
42.00 – 43.00	175314		71086	IMA2073
68.20 – 68.60	175315		62944	IMA2442
68.60 – 69.60	175316		62943	IMA2441
69.60 – 70.60	175317		62942	IMA2418
70.60 – 71.60	175318		62941	IMA2417
71.60 – 72.65	175319		85935	IMA2281
72.65 – 73.65	175321		85934	IMA2280
723.65 – 74.40	175322		85933	IMA2279
90.90 – 91.80	175323		85932	IMA2278
91.80 – 92.50	175324		85931	IMA2277
92.50 – 93.00	175325		85930	IMA2276

		Reject	½ core	½ core
Sample Interval (m)	Sample No.	Analysis No.	Sample No.	Analysis No.
93.00 – 94.00	175326		62950	IMA2447
94.00 – 95.00	175327		62921	IMA2266
95.00 – 96.00	175328		62902	IMA2247
96.00 – 97.00	175329		62901	IMA2246
97.00 – 98.00	175331		62920	IMA2265
98.00 – 99.00	175332		62913	IMA2258
99.00 – 100.00	175333		62914	IMA2259
100.00 – 101.00	175334		62915	IMA2260
101.00 – 102.00	175335		62916	IMA2261
102.00 – 103.00	175336		62917	IMA2262
103.00 – 104.00	175337		62918	IMA2263
104.00 – 105.00	175338		62919	IMA2264
105.00 – 106.00	175339		62949	IMA2440
106.00 – 107.00	175341		62935	IMA2411
107.00 – 108.00	175342		62934	IMA2410
108.00 – 109.00	175343		62933	IMA2409
109.00 – 110.00	175344		62932	IMA2408
110.00 – 111.00	175345		62931	IMA2407
111.00 – 112.00	175346		62922	IMA2348
112.00 – 113.00	175347		62923	IMA2349
113.00 – 114.00	175348		62924	IMA2350
114.00 – 115.00	175349		62936	IMA2412
115.00 – 116.00	175350		62937	IMA2413
116.00 – 117.00	175351		62938	IMA2414
117.00 – 118.00	175352		62939	IMA2415
118.00 – 119.00	175353		62940	IMA2416

		Reject	½ core	½ core
Sample Interval (m)	Sample No.	Analysis No.	Sample No.	Analysis No.
119.00 -120.00	175354		62909	IMA2254
120.00 – 121.00	175355		62908	IMA2253
121.00 – 122.00	175356		62907	IMA2252
122.00 – 123.00	175357		62906	IMA2251
123.00 – 124.00	175358		62903	IMA2248
124.00 – 125.00	175359		62904	IMA2249
125.00 – 126.00	175362		62905	IMA2250
126.00 – 127.00	175363		62925	IMA2401
127.00 – 128.00	175364		62926	IMA2402
128.00 – 129.00	175365		62927	IMA2403
129.00 – 130.00	175366		62928	IMA2404
130.00 – 131.00	175367		62929	IMA2405
131.00 – 132.00	175368		62930	IMA2406
132.00 – 133.00	175369		62910	IMA2255
133.00 – 134.00	175370		62911	IMA2256
134.000 – 135.00	175371		62912	IMA2257
135.00 – 136.00	175372		62945	IMA2243
136.00 – 137.00	175373		62946	IMA2444
137.00 – 138.00	175374		62947	IMA2445
138.00 – 139.00	175375		62948	IMA2446
142.00 – 143.00	175376		85937	IMA2283
143.00 – 144.00	175377		85936	IMA2282
149.00 – 150.00	175378		85938	IMA2284
150.00 – 151.00	175379		85939	IMA2285

Appendix I

Maps



Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
 - Notice
- ENDM Administrative Boundaries**
 - ENDM Townships and Areas
 - Geographic Lot Fabric
 - UTM Grid 10K
 - UTM Grid 10K
 - Mining Division
 - Mineral Exploration and Development Region
 - CLUPA Protected Area - Far North
 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
- AMIG Sites**
 - AMIG Sites
 - AMIG Features
 - Drill Hole
- Mineral Occurrences**
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
- Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council

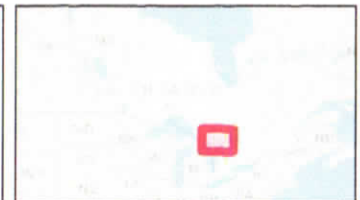


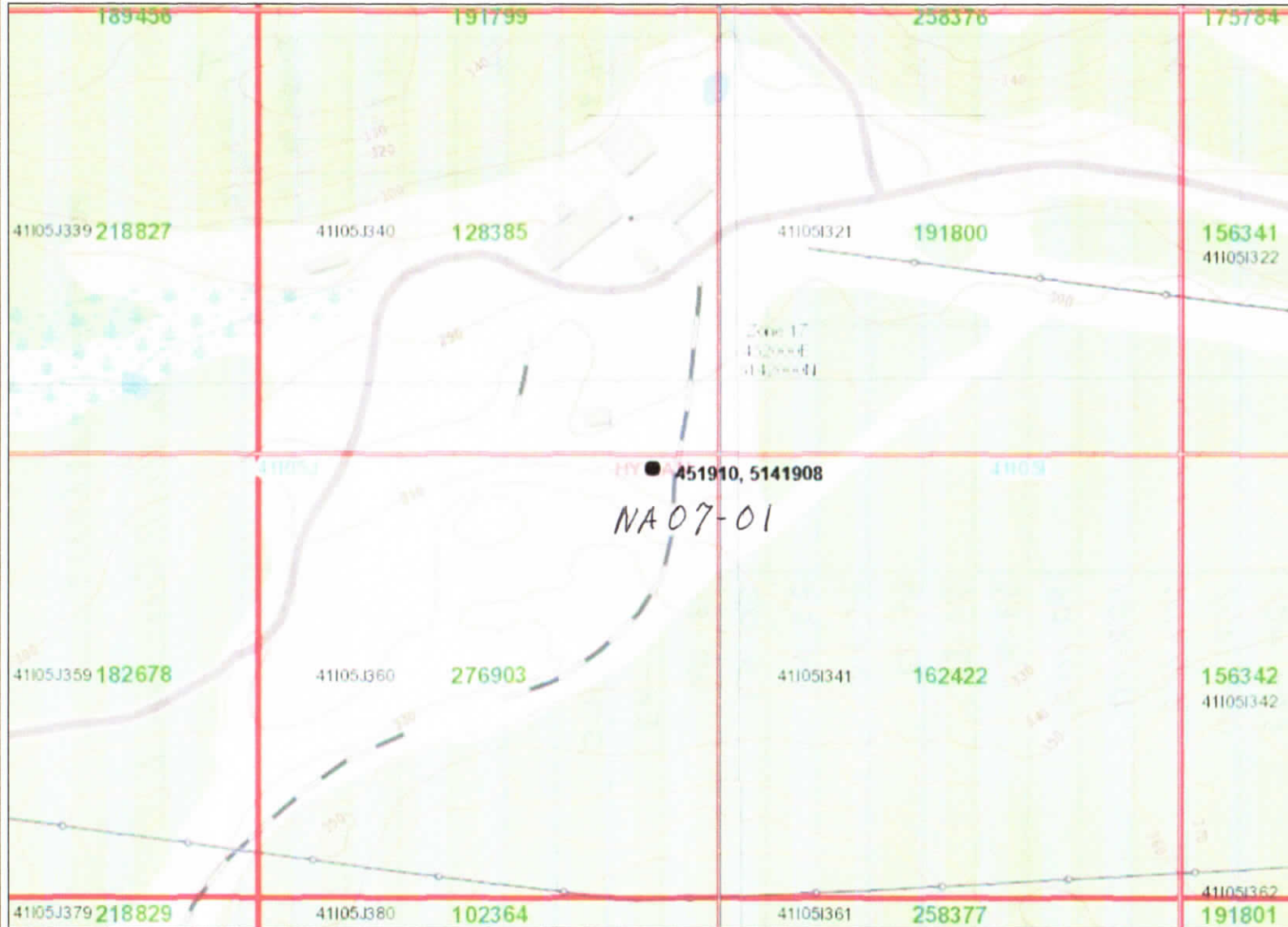
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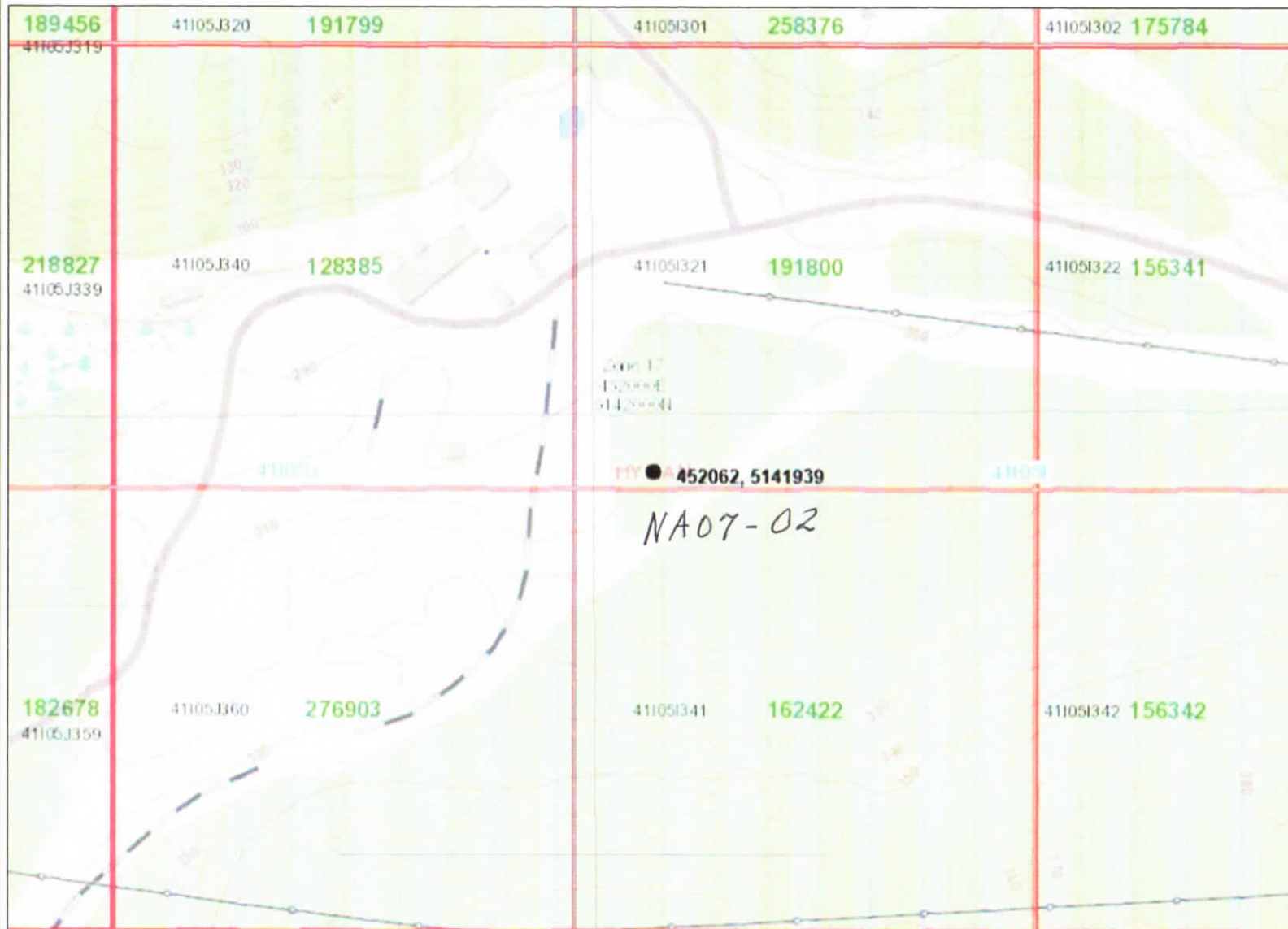
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 - Mining Division
 - Mineral Exploration and Development Region
 - CLUPA Protected Area - Far North
 - Resident Geologist District
- Federal Land Other**
 - Native Reserves
- AMIS Sites**
 - AMIS Sites
 - AMIS Features
 - Drill Hole
- Mineral Occurrences**
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
- Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council



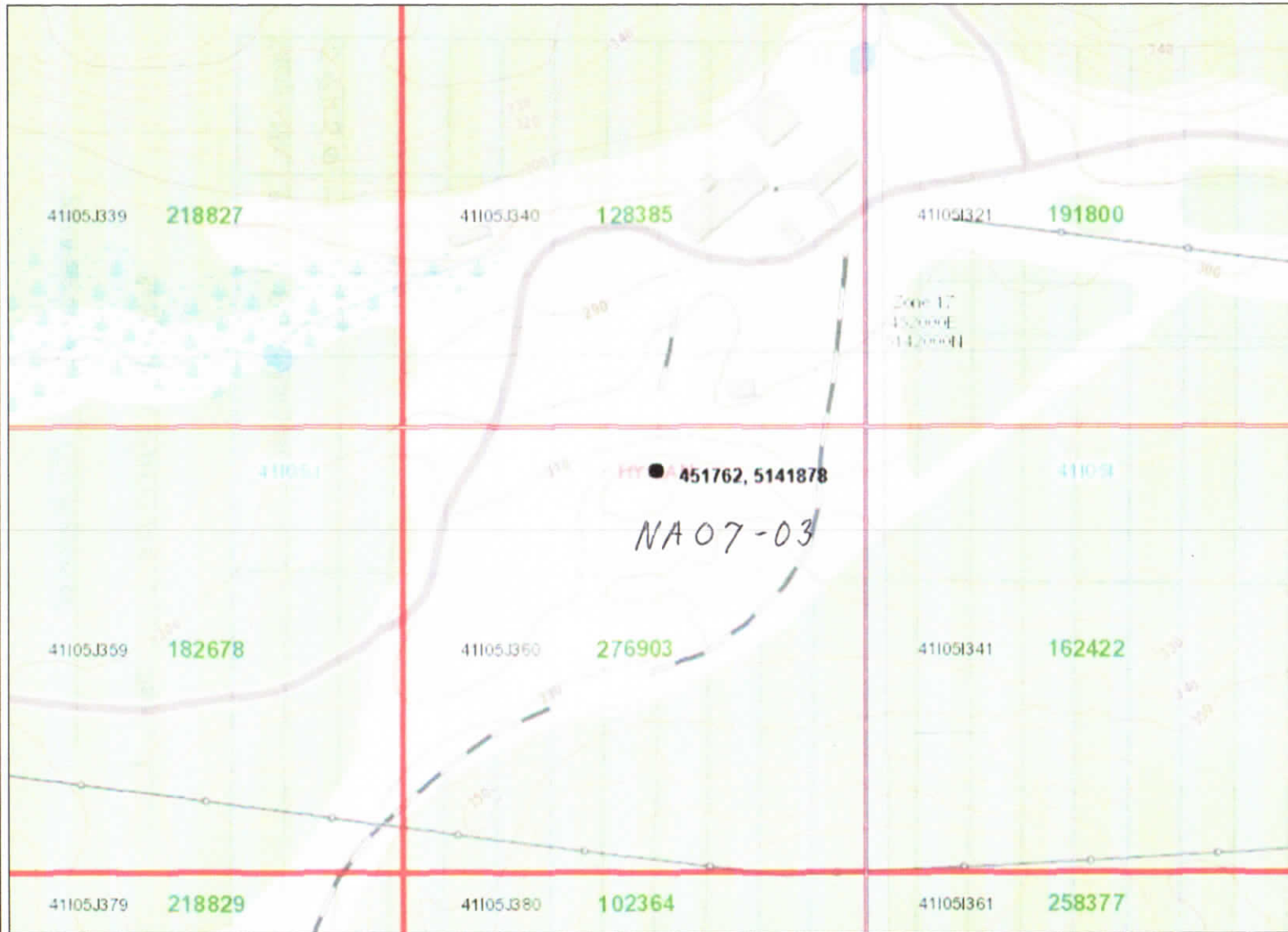
Projection: Web Mercator



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Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
 - Notice
- ENDM Administrative Boundaries**
 - ENDM Townships and Areas
 - Geographic Lot Fabric
 - UTM Grid 1K
 - UTM Grid 10K
 - Mining Division
 - Mineral Exploration and Development Region
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Sample Locations

NA07-01 451910 E ; 5141908 N
Azimuth 346
Inclination 45
Depth 147.0 metres

Claim 276903 8 samples

Claim 128385 122 samples

NA07-02 452062 E ; 5141939 N
Azimuth 346
Inclination 45
Depth 150.29 metres

Claim 191800 79 samples

NA07-03 451762 E ; 5141878 N
Azimuth 354
Inclination 45
Depth 161.25 metres

Claim 276903 10 samples

Claim 128385 50 samples

Totals Claim 128385 172 samples
 Claim 191800 79 samples
 Claim 276903 18 samples

Appendix II

Certificate of Analysis



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: January 03, 2018
Report Date: January 30, 2018
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN18000051.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 214

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	214	Sorting, labeling and boxing samples received as pulps			VAN
MA200	214	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	214	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

Page: 2 of 9

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte	MA200																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA 2246	Rock Pulp	1.7	8.0	6.2	3	<0.1	6.4	4.1	60	0.44	4	10.0	59.8	14	<0.1	0.2	0.2	8	0.15	0.008	87.8
IMA 2247	Rock Pulp	1.6	25.0	25.8	21	<0.1	8.2	5.2	59	0.48	6	10.7	64.0	14	0.2	0.2	0.3	10	0.12	0.010	104.5
IMA 2248	Rock Pulp	3.8	4.5	11.0	3	<0.1	7.2	8.6	43	0.46	11	17.3	82.6	19	<0.1	0.2	<0.1	10	0.06	0.011	101.8
IMA 2249	Rock Pulp	4.5	3.9	14.7	6	<0.1	7.7	9.0	61	0.51	12	27.6	135.4	37	<0.1	0.6	0.2	16	0.17	0.018	132.2
IMA 2250	Rock Pulp	4.0	3.5	13.9	6	<0.1	7.1	7.8	27	0.46	9	22.9	106.6	20	<0.1	0.2	0.2	12	0.03	0.015	112.0
IMA 2251	Rock Pulp	6.4	9.0	13.9	5	<0.1	7.6	4.3	34	0.58	3	30.8	158.0	17	<0.1	0.1	0.3	25	0.05	0.024	200.2
IMA 2252	Rock Pulp	4.8	81.9	91.5	160	0.4	14.5	19.4	34	0.63	11	341.3	1673.3	32	0.6	0.3	1.9	18	0.04	0.173	1836.7
IMA 2253	Rock Pulp	1.9	9.5	27.2	4	<0.1	7.9	6.2	27	0.52	3	106.9	514.2	27	<0.1	0.1	0.4	15	0.05	0.060	570.6
IMA 2254	Rock Pulp	3.0	14.5	31.2	5	<0.1	8.3	6.9	37	0.51	4	141.2	626.1	26	<0.1	0.1	0.5	15	0.08	0.075	712.5
IMA 2255	Rock Pulp	3.2	2.9	20.2	6	<0.1	7.2	11.1	28	0.68	9	59.8	268.4	20	<0.1	0.1	0.3	12	0.03	0.034	296.0
IMA 2256	Rock Pulp	5.4	10.7	82.5	17	0.1	7.6	11.0	27	0.48	10	78.1	229.9	22	<0.1	0.2	0.9	10	0.05	0.027	237.8
IMA 2257	Rock Pulp	5.7	4.0	13.4	4	<0.1	5.6	3.7	30	0.47	3	30.0	168.9	21	<0.1	0.1	0.2	10	0.03	0.022	230.9
IMA 2258	Rock Pulp	4.9	89.8	28.6	4	<0.1	10.7	10.9	91	0.83	16	96.3	616.2	25	<0.1	0.2	0.3	16	0.20	0.062	696.0
IMA 2259	Rock Pulp	3.6	34.9	23.8	3	<0.1	8.3	12.5	60	0.65	11	89.0	553.3	23	<0.1	0.2	0.3	17	0.12	0.063	653.1
IMA 2260	Rock Pulp	2.5	15.3	24.9	4	0.1	8.3	11.3	41	0.65	8	108.3	612.9	22	<0.1	0.1	0.5	20	0.07	0.071	703.3
IMA 2261	Rock Pulp	3.3	13.9	20.9	4	<0.1	8.1	6.8	41	0.70	3	67.1	438.2	23	<0.1	0.1	0.5	13	0.07	0.053	544.8
IMA 2262	Rock Pulp	2.5	10.8	22.4	4	0.2	9.9	25.3	45	0.81	21	68.0	452.3	21	<0.1	0.1	0.7	14	0.11	0.047	540.7
IMA 2263	Rock Pulp	2.1	9.5	12.7	5	<0.1	7.6	6.7	99	0.73	4	17.3	71.9	21	<0.1	<0.1	0.2	12	0.24	0.010	106.3
IMA 2264	Rock Pulp	6.7	43.5	24.2	4	<0.1	8.0	15.8	65	0.62	15	103.2	499.0	26	<0.1	0.2	0.2	11	0.14	0.057	593.4
IMA 2265	Rock Pulp	4.4	11.5	13.4	4	<0.1	6.9	7.2	51	0.59	5	33.4	183.2	18	<0.1	0.1	0.2	18	0.11	0.021	225.3
IMA 2266	Rock Pulp	1.3	32.0	21.4	39	<0.1	40.3	13.7	162	2.60	4	4.3	10.2	75	<0.1	<0.1	0.2	53	0.30	0.035	19.4
IMA 2267	Rock Pulp	1.7	30.2	10.8	3	<0.1	7.8	7.2	63	0.59	10	19.7	132.4	16	<0.1	0.1	0.4	11	0.10	0.016	175.5
IMA 2268	Rock Pulp	1.6	19.4	13.7	30	<0.1	30.9	15.9	179	2.44	6	3.8	9.1	89	<0.1	0.1	0.2	60	0.33	0.029	20.5
IMA 2269	Rock Pulp	1.9	53.6	12.8	43	<0.1	54.6	30.9	236	3.48	7	5.3	11.7	60	<0.1	0.2	0.3	100	0.41	0.041	24.6
IMA 2270	Rock Pulp	0.9	81.4	715.3	333	0.2	50.6	49.4	1188	7.90	8	1.4	3.9	119	1.9	0.4	0.2	268	3.89	0.081	16.0
IMA 2271	Rock Pulp	0.8	71.2	110.1	316	0.1	53.7	50.9	1566	8.99	13	0.6	2.1	146	1.5	0.2	<0.1	318	5.52	0.087	13.8
IMA 2272	Rock Pulp	0.8	73.8	358.5	602	0.3	53.3	49.2	1511	9.36	11	0.5	2.1	148	3.8	0.2	0.1	339	5.54	0.095	15.1
IMA 2273	Rock Pulp	1.8	140.4	171.5	206	0.9	40.1	10.3	360	1.67	1	3.9	11.1	66	1.8	<0.1	2.5	28	1.35	0.011	12.4
IMA 2274	Rock Pulp	2.0	27.7	18.8	60	<0.1	10.0	3.2	128	0.88	<1	2.0	12.3	34	0.4	<0.1	<0.1	13	0.45	0.016	50.0
IMA 2275	Rock Pulp	2.6	23.6	20.3	48	<0.1	47.8	19.3	140	2.83	4	4.4	12.2	49	0.1	0.2	0.1	110	0.45	0.032	27.0



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: MacGregor, R.A.
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

Page: 2 of 9

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
IMA 2246	Rock Pulp	162	0.06	340	0.042	1.47	0.032	1.97	0.6	50.9	158	0.6	6.9	4.5	0.4	<1	<1	1.6	<0.1	71.1	1.4
IMA 2247	Rock Pulp	162	0.07	401	0.052	1.62	0.037	1.98	0.4	56.0	188	0.4	7.2	5.8	0.5	<1	<1	1.2	<0.1	77.6	1.5
IMA 2248	Rock Pulp	193	0.04	659	0.116	2.54	0.062	2.56	0.6	96.7	184	0.7	7.8	10.0	1.0	<1	1	0.9	<0.1	106.0	2.7
IMA 2249	Rock Pulp	156	0.11	747	0.128	3.16	0.144	2.36	0.5	153.9	242	0.9	12.2	10.5	1.1	<1	2	3.0	<0.1	99.1	4.3
IMA 2250	Rock Pulp	175	0.03	850	0.107	3.28	0.078	2.65	0.7	135.3	217	1.0	10.0	9.4	1.0	<1	2	1.5	0.1	112.8	3.7
IMA 2251	Rock Pulp	191	0.11	745	0.162	4.55	0.067	3.32	1.1	117.9	370	2.3	16.1	13.7	1.4	2	4	4.9	<0.1	171.3	3.2
IMA 2252	Rock Pulp	212	0.07	640	0.437	3.23	0.055	3.16	1.4	264.3	>2000	2.4	149.0	55.2	6.4	2	3	8.4	0.2	152.4	6.8
IMA 2253	Rock Pulp	127	0.11	878	0.227	5.32	0.072	3.82	0.6	253.3	1083	2.8	47.5	21.5	2.3	2	3	6.6	<0.1	208.4	6.2
IMA 2254	Rock Pulp	181	0.09	815	0.280	4.63	0.068	3.57	0.6	247.6	1270	2.5	55.6	26.5	2.9	2	3	6.3	<0.1	190.4	6.5
IMA 2255	Rock Pulp	167	0.09	823	0.153	5.14	0.081	3.39	1.2	136.2	561	2.7	22.7	14.6	1.8	2	3	6.2	0.2	189.9	3.9
IMA 2256	Rock Pulp	126	0.08	876	0.119	4.30	0.081	3.63	0.9	112.2	451	1.5	24.6	15.0	1.9	1	2	4.2	<0.1	177.9	3.2
IMA 2257	Rock Pulp	152	0.07	879	0.138	4.59	0.079	3.15	0.9	121.6	444	1.8	16.9	12.0	1.3	2	2	3.9	<0.1	157.3	3.5
IMA 2258	Rock Pulp	173	0.10	646	0.159	2.93	0.053	2.81	1.4	117.3	1278	1.1	44.3	19.4	2.2	<1	2	5.9	0.3	114.3	3.4
IMA 2259	Rock Pulp	193	0.10	794	0.191	3.29	0.061	2.38	1.8	165.1	1156	1.7	49.2	22.9	2.6	1	2	8.3	0.1	114.8	4.5
IMA 2260	Rock Pulp	208	0.12	808	0.235	3.30	0.059	2.23	1.1	220.1	1303	1.8	56.7	29.0	3.5	1	2	7.8	<0.1	116.7	5.9
IMA 2261	Rock Pulp	241	0.12	881	0.227	3.51	0.065	2.53	1.0	182.3	1001	1.9	39.7	25.8	3.0	1	2	8.6	<0.1	140.1	5.3
IMA 2262	Rock Pulp	176	0.11	790	0.219	3.62	0.059	2.77	6.6	167.2	989	2.0	41.1	25.7	3.0	1	2	8.1	0.2	148.9	4.7
IMA 2263	Rock Pulp	198	0.18	955	0.076	3.62	0.078	3.46	2.2	98.4	192	1.3	8.2	7.4	0.6	1	2	5.2	<0.1	175.2	2.7
IMA 2264	Rock Pulp	166	0.11	952	0.172	3.91	0.073	2.51	1.4	148.0	1105	1.8	38.9	18.5	2.2	1	2	6.4	<0.1	136.6	4.4
IMA 2265	Rock Pulp	154	0.12	733	0.129	3.33	0.055	2.41	2.2	118.1	424	1.7	18.4	13.6	1.3	1	2	5.5	<0.1	120.0	3.3
IMA 2266	Rock Pulp	144	1.24	164	0.066	6.30	2.952	1.14	0.4	151.7	40	1.1	4.6	1.5	0.1	1	7	16.2	0.1	53.8	4.0
IMA 2267	Rock Pulp	189	0.07	446	0.083	1.96	0.032	2.25	1.4	66.3	314	0.8	12.6	8.8	1.0	<1	<1	2.1	0.2	95.6	2.2
IMA 2268	Rock Pulp	156	1.18	184	0.072	6.69	3.257	1.27	0.5	152.4	42	1.1	4.6	1.8	0.2	1	8	16.9	<0.1	60.7	3.8
IMA 2269	Rock Pulp	159	1.57	364	0.102	7.22	1.923	2.09	0.7	223.9	54	2.1	6.4	1.9	0.2	2	11	25.6	0.2	91.2	5.5
IMA 2270	Rock Pulp	72	2.73	107	0.246	6.34	1.315	1.08	0.4	129.9	35	0.9	6.5	3.6	0.2	<1	29	27.1	0.3	55.3	3.3
IMA 2271	Rock Pulp	73	3.05	89	0.292	6.22	0.908	1.25	0.4	111.4	31	0.9	6.9	4.0	0.3	1	33	25.9	0.1	60.6	2.7
IMA 2272	Rock Pulp	64	3.01	90	0.315	6.16	0.691	1.40	0.6	113.7	34	0.8	7.5	4.4	0.3	1	35	27.1	0.2	68.9	3.1
IMA 2273	Rock Pulp	301	0.69	16	0.043	2.63	1.803	0.17	0.4	93.6	26	0.2	4.2	2.8	0.1	<1	4	4.4	0.4	7.2	2.4
IMA 2274	Rock Pulp	245	0.25	7	0.023	1.91	1.431	0.06	0.3	52.6	109	0.2	3.3	2.1	<0.1	<1	2	3.0	<0.1	2.3	1.5
IMA 2275	Rock Pulp	243	1.10	267	0.092	7.35	1.888	2.25	0.9	121.2	56	1.7	6.3	2.1	0.2	2	14	19.7	0.2	97.1	3.4



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

Page: 2 of 9

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2246	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2247	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2248	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA 2249	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2250	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2251	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2252	Rock Pulp	<0.05	<0.005	2	<0.5	0.9
IMA 2253	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2254	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2255	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2256	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2257	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2258	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2259	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2260	Rock Pulp	<0.05	<0.005	1	<0.5	1.0
IMA 2261	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2262	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA 2263	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2264	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2265	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2266	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2267	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2268	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2269	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2270	Rock Pulp	0.12	<0.005	<1	<0.5	<0.5
IMA 2271	Rock Pulp	0.11	<0.005	<1	1.2	<0.5
IMA 2272	Rock Pulp	0.09	<0.005	<1	0.7	<0.5
IMA 2273	Rock Pulp	<0.05	<0.005	<1	0.9	<0.5
IMA 2274	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2275	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: January 30, 2018

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
IMA 2276	Rock Pulp	1.8	6.3	13.2	7	<0.1	6.7	1.6	137	0.68	3	1.9	7.1	23	<0.1	<0.1	<0.1	9	0.36	0.001	10.0
IMA 2277	Rock Pulp	2.1	23.7	51.3	27	<0.1	10.6	6.7	316	1.29	5	13.5	79.2	40	0.1	0.1	0.5	14	0.76	0.010	104.9
IMA 2278	Rock Pulp	3.1	45.8	79.0	47	0.2	21.5	9.9	278	2.50	2	55.7	57.7	24	<0.1	0.2	0.9	59	0.30	0.018	68.6
IMA 2279	Rock Pulp	2.7	23.0	62.4	55	<0.1	12.6	5.3	134	1.78	2	6.1	28.0	60	0.2	0.1	0.2	18	0.09	0.005	29.8
IMA 2280	Rock Pulp	2.0	37.3	40.8	25	<0.1	8.5	4.5	73	1.27	2	7.1	36.6	46	<0.1	0.1	<0.1	16	0.05	0.005	44.2
IMA 2281	Rock Pulp	4.2	42.1	57.2	28	<0.1	12.8	10.8	144	1.72	6	37.6	121.6	47	0.1	0.1	0.2	20	0.11	0.014	130.1
IMA 2282	Rock Pulp	1.3	9.7	7.9	4	<0.1	8.6	2.4	38	0.59	2	6.1	25.2	24	<0.1	0.1	<0.1	17	0.04	0.008	44.9
IMA 2283	Rock Pulp	1.3	3.2	8.2	4	<0.1	5.5	1.5	32	0.53	<1	4.7	22.4	22	<0.1	<0.1	<0.1	13	0.01	0.007	38.4
IMA 2284	Rock Pulp	1.1	12.7	41.8	67	<0.1	17.9	6.5	169	1.62	<1	2.2	5.0	79	0.3	<0.1	<0.1	34	0.30	0.016	13.3
IMA 2285	Rock Pulp	1.9	12.4	41.5	11	0.1	26.6	10.8	539	1.60	5	0.7	2.3	106	<0.1	<0.1	0.5	18	1.26	0.012	7.2
IMA 2286	Rock Pulp	2.9	175.6	23.1	65	0.2	157.4	50.4	465	6.85	22	5.8	11.7	18	<0.1	0.3	0.9	206	0.15	0.085	25.9
IMA 2287	Rock Pulp	2.9	219.4	14.3	50	0.3	164.1	49.9	431	6.97	8	5.2	9.9	16	<0.1	0.3	1.0	201	0.15	0.074	19.6
IMA 2288	Rock Pulp	2.5	87.2	47.4	124	0.2	59.1	25.8	369	6.68	6	7.0	17.6	15	0.5	0.1	0.2	125	0.10	0.052	22.9
IMA 2289	Rock Pulp	1.8	93.9	66.8	103	0.4	53.8	35.7	341	6.44	27	15.1	35.5	18	0.5	0.1	0.4	155	0.08	0.045	46.0
IMA 2290	Rock Pulp	2.3	58.8	21.8	6	0.1	11.3	13.5	74	0.64	16	19.3	104.4	21	<0.1	<0.1	0.5	13	0.15	0.011	123.7
IMA 2291	Rock Pulp	2.1	7.4	19.6	2	<0.1	5.8	3.7	38	0.55	3	21.5	124.2	21	<0.1	<0.1	0.2	9	0.04	0.018	165.5
IMA 2292	Rock Pulp	3.5	25.5	17.9	3	0.2	10.6	20.8	32	0.74	19	43.7	243.7	22	<0.1	0.1	0.6	10	0.03	0.031	339.9
IMA 2293	Rock Pulp	4.5	46.0	27.8	6	0.2	9.9	18.7	36	0.58	18	71.1	411.3	22	<0.1	0.1	0.7	10	0.06	0.047	469.0
IMA 2294	Rock Pulp	8.4	74.0	43.0	8	0.3	10.8	35.0	87	0.71	42	149.0	893.9	26	<0.1	0.2	1.1	13	0.16	0.091	1079.0
IMA 2295	Rock Pulp	5.4	14.5	31.7	3	0.2	8.9	25.6	56	0.59	27	124.5	738.8	26	<0.1	0.2	0.2	13	0.08	0.087	938.8
IMA 2296	Rock Pulp	2.2	6.6	21.2	4	0.1	6.4	6.3	28	0.63	4	64.9	404.7	21	<0.1	0.1	0.2	13	0.04	0.054	452.6
IMA 2297	Rock Pulp	2.2	9.6	20.5	2	<0.1	5.7	5.4	30	0.52	4	48.0	303.9	21	<0.1	<0.1	0.3	9	0.03	0.038	367.1
IMA 2298	Rock Pulp	3.5	12.6	32.9	17	<0.1	6.3	4.9	29	0.53	4	54.4	311.0	24	<0.1	0.2	0.4	9	0.03	0.035	355.3
IMA 2299	Rock Pulp	3.4	3.9	23.8	4	<0.1	5.3	3.9	31	0.59	5	61.4	311.1	21	<0.1	0.1	0.1	12	0.05	0.037	343.2
IMA 2300	Rock Pulp	5.4	23.2	31.1	5	0.1	7.8	13.7	32	0.48	18	179.2	944.1	26	<0.1	0.1	0.2	8	0.05	0.105	1181.1
IMA 2301	Rock Pulp	7.7	52.5	68.5	38	0.3	11.7	22.0	31	1.02	14	348.7	1217.5	23	<0.1	0.1	1.8	11	0.05	0.126	1301.6
IMA 2302	Rock Pulp	3.7	32.3	32.8	14	0.2	8.4	12.3	24	0.78	6	116.8	630.3	21	<0.1	0.1	0.6	16	0.03	0.074	746.1
IMA 2303	Rock Pulp	3.5	8.4	25.5	2	0.1	6.2	9.0	27	0.54	8	84.2	521.5	22	<0.1	<0.1	0.2	13	0.05	0.068	669.6
IMA 2304	Rock Pulp	1.2	9.9	17.4	11	0.1	6.5	4.9	29	0.48	6	83.6	384.3	25	<0.1	0.2	0.2	10	0.09	0.073	398.7
IMA 2305	Rock Pulp	3.6	108.4	156.5	1751	0.5	8.9	12.4	30	0.65	10	388.2	677.8	22	8.9	0.2	1.1	12	0.06	0.071	810.0



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.1	0.1	1	0.1	0.1	
IMA 2276	Rock Pulp	223	0.10	450	0.018	1.82	0.034	2.08	0.4	37.6	18	0.6	1.6	1.7	0.1	<1	1	1.4	<0.1	91.0	1.0
IMA 2277	Rock Pulp	395	0.22	307	0.046	1.55	0.026	1.60	0.4	52.9	179	0.7	8.7	4.3	0.3	<1	2	1.9	0.2	76.5	1.4
IMA 2278	Rock Pulp	177	0.53	737	0.140	4.57	0.427	3.88	0.9	181.2	133	2.1	9.7	5.8	0.5	2	5	16.6	0.3	211.9	5.1
IMA 2279	Rock Pulp	136	0.47	1624	0.161	9.92	1.146	3.93	0.8	96.5	60	3.6	4.3	11.2	1.3	3	3	19.5	<0.1	179.3	2.9
IMA 2280	Rock Pulp	151	0.20	1223	0.128	4.62	0.384	3.21	0.3	87.7	81	1.0	4.5	9.5	0.9	<1	1	6.5	0.1	119.9	2.5
IMA 2281	Rock Pulp	184	0.26	1072	0.189	4.41	0.355	3.42	0.5	115.2	235	0.9	13.4	14.7	1.5	<1	1	7.1	0.2	105.5	3.2
IMA 2282	Rock Pulp	213	0.14	636	0.088	4.75	0.367	3.31	0.4	122.9	76	1.5	4.4	4.5	0.4	1	2	4.0	<0.1	137.7	3.4
IMA 2283	Rock Pulp	195	0.09	681	0.078	5.07	0.134	3.43	0.4	106.8	63	1.7	3.4	4.4	0.4	1	2	3.6	<0.1	158.0	3.0
IMA 2284	Rock Pulp	210	0.80	285	0.077	5.48	2.489	1.55	0.8	64.8	29	1.0	2.8	1.5	0.1	1	4	12.2	<0.1	90.7	1.8
IMA 2285	Rock Pulp	252	0.89	139	0.044	3.20	1.460	0.73	0.5	27.2	15	0.6	3.4	0.9	<0.1	<1	2	6.2	<0.1	42.6	0.8
IMA 2286	Rock Pulp	267	1.53	592	0.574	15.80	0.066	4.65	4.3	213.2	58	4.0	11.7	15.2	1.4	7	26	38.9	0.9	285.7	6.2
IMA 2287	Rock Pulp	274	1.51	292	0.548	15.53	0.071	4.85	4.0	197.0	45	3.9	10.2	12.6	1.1	6	26	38.0	1.3	280.8	5.5
IMA 2288	Rock Pulp	208	1.33	382	0.403	7.63	0.151	2.80	1.9	94.8	49	1.9	7.7	8.0	0.7	2	14	25.5	0.6	151.4	3.1
IMA 2289	Rock Pulp	194	1.33	418	0.416	7.84	0.495	2.90	2.3	132.1	95	2.2	11.6	9.7	1.0	3	16	33.2	0.4	166.5	3.8
IMA 2290	Rock Pulp	178	0.13	788	0.113	3.55	0.058	2.65	1.4	115.7	219	1.1	9.6	9.4	1.1	<1	2	2.8	0.1	127.2	3.5
IMA 2291	Rock Pulp	202	0.07	845	0.117	4.17	0.060	3.16	0.8	115.8	295	1.4	11.3	9.3	1.1	<1	1	3.2	<0.1	148.1	3.4
IMA 2292	Rock Pulp	229	0.04	651	0.114	3.51	0.060	4.38	1.7	117.5	593	1.0	21.3	11.6	1.4	<1	1	2.9	0.3	167.7	3.5
IMA 2293	Rock Pulp	185	0.06	731	0.191	3.35	0.053	2.83	1.9	170.2	850	1.1	35.9	18.0	2.1	<1	1	3.7	0.1	123.6	4.8
IMA 2294	Rock Pulp	210	0.11	769	0.281	3.79	0.050	2.92	1.8	197.6	1837	1.5	70.8	28.2	3.4	1	2	4.9	<0.1	138.7	5.3
IMA 2295	Rock Pulp	158	0.10	907	0.235	4.36	0.057	3.16	1.8	204.8	1700	2.0	61.3	23.9	2.9	1	2	4.7	<0.1	152.4	6.1
IMA 2296	Rock Pulp	157	0.16	824	0.221	5.10	0.057	3.59	1.4	212.7	809	3.6	39.0	18.6	2.3	2	3	8.4	<0.1	194.5	6.3
IMA 2297	Rock Pulp	185	0.07	838	0.131	4.04	0.051	3.18	0.9	145.1	660	1.3	26.1	11.3	1.3	2	1	3.5	<0.1	149.8	4.0
IMA 2298	Rock Pulp	177	0.08	889	0.155	4.22	0.058	3.58	1.0	142.4	616	1.5	25.9	13.6	1.6	1	2	3.6	<0.1	167.0	4.2
IMA 2299	Rock Pulp	165	0.14	875	0.159	5.13	0.056	3.74	1.3	134.3	593	2.6	30.2	12.6	1.4	2	2	7.0	<0.1	191.3	3.8
IMA 2300	Rock Pulp	188	0.07	829	0.192	3.75	0.053	3.12	1.3	141.0	>2000	1.7	69.3	20.0	2.5	1	1	3.9	<0.1	154.1	3.7
IMA 2301	Rock Pulp	224	0.07	610	0.257	3.21	0.045	3.58	2.0	168.7	>2000	1.6	97.9	34.3	4.8	1	2	7.0	0.5	162.3	5.1
IMA 2302	Rock Pulp	177	0.13	757	0.282	4.81	0.055	3.98	2.0	200.8	1302	3.2	55.4	28.3	3.4	2	3	7.0	0.2	209.1	5.7
IMA 2303	Rock Pulp	180	0.10	824	0.283	4.40	0.057	4.04	1.6	194.0	1186	1.9	48.1	26.7	3.2	<1	3	4.9	<0.1	196.3	5.4
IMA 2304	Rock Pulp	190	0.06	832	0.145	4.03	0.057	3.86	0.9	116.1	682	1.4	35.6	14.3	1.6	<1	2	2.9	<0.1	177.7	3.4
IMA 2305	Rock Pulp	193	0.06	706	0.195	3.46	0.048	3.69	1.5	115.1	1438	1.8	73.2	25.3	3.2	1	2	4.2	0.3	158.0	3.0



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2276	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2277	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2278	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2279	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2280	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2281	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2282	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2283	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2284	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2285	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2286	Rock Pulp	0.15	0.008	2	<0.5	2.1
IMA 2287	Rock Pulp	0.14	0.018	6	0.9	2.1
IMA 2288	Rock Pulp	<0.05	<0.005	1	<0.5	1.1
IMA 2289	Rock Pulp	0.11	<0.005	<1	<0.5	1.1
IMA 2290	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2291	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2292	Rock Pulp	<0.05	0.006	<1	<0.5	0.9
IMA 2293	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2294	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2295	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2296	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2297	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2298	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2299	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2300	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2301	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA 2302	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2303	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2304	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2305	Rock Pulp	0.06	<0.005	<1	<0.5	0.9



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%		
				0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.01	0.001	0.1	0.1		
IMA 2306	Rock Pulp			3.2	113.8	425.6	863	1.1	17.2	34.7	38	1.44	73	1366.4	2135.8	26	6.5	0.6	4.3	17	0.08	0.210	>2000
IMA 2307	Rock Pulp			1.6	15.7	37.7	7	0.1	6.9	6.4	30	0.67	3	115.5	576.3	14	0.1	<0.1	0.5	14	0.03	0.070	673.4
IMA 2308	Rock Pulp			1.2	5.1	10.8	11	<0.1	6.4	4.3	45	0.53	1	30.1	180.6	12	<0.1	0.1	0.1	10	0.15	0.023	219.1
IMA 2309	Rock Pulp			1.0	3.0	11.2	16	<0.1	5.7	3.1	26	0.54	1	27.1	131.2	15	<0.1	<0.1	0.1	13	0.01	0.019	180.4
IMA 2310	Rock Pulp			1.7	7.8	21.2	20	<0.1	6.1	4.6	31	0.57	3	72.9	370.0	22	<0.1	0.1	0.2	14	0.03	0.046	461.3
IMA 2311	Rock Pulp			1.4	35.6	5.2	10	<0.1	34.4	15.5	343	1.43	12	3.0	10.0	70	<0.1	0.3	0.3	61	2.05	0.024	23.8
IMA 2312	Rock Pulp			1.6	53.2	3.1	16	<0.1	49.1	18.4	477	2.39	13	4.7	12.6	45	<0.1	0.3	0.3	84	1.75	0.029	35.0
IMA 2313	Rock Pulp			1.3	41.9	7.3	33	<0.1	39.1	17.0	117	2.52	7	6.3	20.7	70	<0.1	0.2	0.3	43	0.29	0.028	27.6
IMA 2314	Rock Pulp			1.2	22.7	9.2	21	<0.1	24.2	22.6	157	1.72	20	12.1	10.2	76	<0.1	0.1	0.2	43	0.41	0.024	18.5
IMA 2315	Rock Pulp			1.2	41.3	92.9	151	0.2	23.8	11.9	165	1.50	4	3.9	10.2	89	0.7	0.1	0.5	33	0.49	0.024	18.7
IMA 2316	Rock Pulp			1.2	24.9	13.1	17	<0.1	23.0	12.1	198	1.76	4	27.1	119.9	77	<0.1	0.1	0.2	40	0.51	0.037	134.5
IMA 2317	Rock Pulp			0.8	19.7	5.3	24	<0.1	30.0	9.9	215	2.21	<1	2.3	5.6	76	<0.1	<0.1	<0.1	56	0.59	0.019	14.6
IMA 2318	Rock Pulp			1.1	35.5	9.4	32	<0.1	35.1	12.0	195	2.61	<1	2.9	8.4	84	<0.1	<0.1	0.1	51	0.48	0.024	16.3
IMA 2319	Rock Pulp			1.3	27.7	10.5	24	<0.1	29.4	12.8	219	2.05	3	4.8	12.8	81	<0.1	<0.1	0.1	56	0.53	0.028	26.7
IMA 2320	Rock Pulp			2.3	45.9	4.8	40	<0.1	67.9	33.5	185	3.21	17	4.9	9.8	26	<0.1	0.2	0.1	141	0.46	0.049	24.0
IMA 2321	Rock Pulp			1.6	26.7	42.0	30	0.2	36.8	14.8	249	2.37	2	6.2	14.6	79	<0.1	<0.1	0.6	60	0.80	0.040	27.0
IMA 2322	Rock Pulp			1.3	21.0	34.8	63	<0.1	31.7	14.0	216	2.17	4	3.5	8.7	74	0.1	<0.1	0.2	51	0.53	0.029	18.4
IMA 2323	Rock Pulp			1.6	84.2	21.6	60	0.1	101.1	41.7	273	4.22	43	5.0	8.6	15	<0.1	0.3	0.5	183	0.07	0.047	15.6
IMA 2324	Rock Pulp			1.8	81.4	9.8	41	<0.1	106.8	38.8	278	4.43	33	5.9	8.2	14	<0.1	0.3	0.6	187	0.07	0.053	12.9
IMA 2325	Rock Pulp			1.9	116.9	10.1	44	<0.1	109.9	33.7	284	4.77	23	5.9	9.5	14	<0.1	0.3	0.7	180	0.07	0.052	16.4
IMA 2326	Rock Pulp			1.8	103.7	11.8	50	<0.1	98.4	42.9	277	4.52	29	5.8	8.1	13	<0.1	0.3	0.7	195	0.07	0.059	14.6
IMA 2327	Rock Pulp			1.5	257.7	22.0	97	0.4	95.3	39.1	529	8.74	15	7.0	12.0	13	<0.1	0.3	0.5	204	0.11	0.066	12.1
IMA 2328	Rock Pulp			1.0	127.9	57.9	199	0.4	61.8	38.8	726	10.99	20	11.7	30.5	14	0.2	0.3	0.5	192	0.13	0.054	45.7
IMA 2329	Rock Pulp			1.8	176.9	82.6	186	0.4	116.3	34.7	401	6.25	16	4.2	6.6	12	0.5	0.3	0.3	193	0.09	0.061	9.3
IMA 2330	Rock Pulp			1.4	103.2	155.6	489	0.4	57.3	44.9	667	9.58	30	6.5	12.5	31	1.7	0.2	0.6	209	0.19	0.082	14.3
IMA 2331	Rock Pulp			1.3	104.4	114.4	138	0.5	29.4	28.6	460	6.02	19	26.4	68.0	43	<0.1	0.1	1.1	111	0.15	0.044	70.7
IMA 2332	Rock Pulp			4.4	94.7	178.4	375	0.4	45.9	29.5	668	9.94	5	21.7	61.6	22	1.4	0.2	0.4	160	0.13	0.055	66.3
IMA 2333	Rock Pulp			0.5	198.3	54.2	172	0.3	47.2	33.9	697	9.77	10	10.8	29.5	29	<0.1	<0.1	0.3	211	0.17	0.070	24.2
IMA 2334	Rock Pulp			1.8	119.6	404.0	277	2.2	27.9	20.8	464	5.26	8	39.0	99.7	63	0.9	0.2	4.0	115	0.48	0.051	113.5
IMA 2335	Rock Pulp			0.3	216.7	124.2	248	1.0	70.7	46.2	969	13.85	13	4.9	8.6	27	0.2	0.1	1.8	328	0.24	0.099	11.5



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
IMA 2306	Rock Pulp	264	0.12	388	0.370	3.41	0.037	3.14	2.2	168.2	>2000	4.1	213.3	55.4	8.0	2	3	11.7	0.9	174.3	4.5
IMA 2307	Rock Pulp	196	0.14	477	0.351	4.46	0.040	3.49	2.0	178.2	1184	3.2	60.0	32.6	3.6	2	2	7.1	<0.1	194.5	5.2
IMA 2308	Rock Pulp	166	0.11	496	0.126	4.17	0.039	3.54	0.7	94.9	393	2.3	19.8	10.1	1.1	2	2	4.8	<0.1	171.3	2.6
IMA 2309	Rock Pulp	186	0.09	633	0.185	4.84	0.048	3.41	1.1	153.7	293	2.3	15.0	13.9	1.5	2	2	5.0	<0.1	178.1	4.1
IMA 2310	Rock Pulp	200	0.09	637	0.296	4.26	0.045	2.85	1.5	204.1	789	2.3	35.0	26.8	2.9	2	2	11.6	<0.1	140.3	5.7
IMA 2311	Rock Pulp	139	0.70	341	0.119	6.92	1.980	2.71	0.7	135.6	49	1.8	7.1	2.6	0.2	1	8	16.5	0.2	139.1	3.2
IMA 2312	Rock Pulp	128	1.10	463	0.140	7.69	1.045	3.60	0.8	190.8	72	2.0	10.6	2.6	0.2	2	11	18.6	0.2	179.2	5.5
IMA 2313	Rock Pulp	179	1.36	306	0.076	5.76	2.517	1.49	0.4	204.1	57	1.1	11.2	1.3	0.1	1	6	19.6	0.2	81.9	5.5
IMA 2314	Rock Pulp	155	0.95	367	0.087	5.91	2.643	1.84	0.4	97.4	39	1.3	5.1	1.5	0.1	<1	5	15.3	<0.1	96.1	2.6
IMA 2315	Rock Pulp	192	0.74	278	0.076	5.40	2.909	1.28	0.4	103.2	36	1.1	4.3	1.9	0.2	<1	4	11.9	0.1	68.7	2.8
IMA 2316	Rock Pulp	172	0.99	388	0.110	5.90	2.340	2.29	0.6	100.2	244	1.5	15.6	4.9	0.5	1	5	15.9	0.1	110.5	2.8
IMA 2317	Rock Pulp	150	1.32	395	0.096	6.61	2.673	2.18	0.6	70.1	30	2.3	4.0	2.2	0.2	2	6	18.2	<0.1	111.8	1.9
IMA 2318	Rock Pulp	172	1.36	307	0.079	6.03	2.765	1.64	0.6	98.5	33	1.7	3.9	1.9	0.2	2	6	19.2	0.2	84.5	2.8
IMA 2319	Rock Pulp	170	1.13	307	0.089	5.91	2.662	1.63	0.7	125.4	50	1.4	4.8	1.8	0.2	1	7	12.9	<0.1	91.0	3.5
IMA 2320	Rock Pulp	152	1.86	574	0.170	7.11	0.895	3.65	1.6	159.0	51	3.4	5.9	1.8	0.1	3	13	25.8	0.2	145.5	4.6
IMA 2321	Rock Pulp	220	1.31	247	0.092	6.29	2.283	1.84	1.1	192.2	53	1.5	6.7	1.7	0.1	2	8	15.7	0.1	98.7	5.1
IMA 2322	Rock Pulp	212	1.11	163	0.068	5.38	2.298	1.24	0.6	122.3	37	1.1	4.7	1.4	0.1	1	7	13.7	<0.1	65.5	3.3
IMA 2323	Rock Pulp	208	0.99	546	0.519	9.09	0.080	3.70	3.4	161.5	38	3.5	7.1	12.6	1.1	4	19	36.2	0.3	211.4	4.8
IMA 2324	Rock Pulp	199	0.95	558	0.525	9.19	0.079	3.37	3.9	159.1	31	3.6	5.9	13.4	1.2	4	19	37.1	0.3	178.6	4.8
IMA 2325	Rock Pulp	201	1.00	566	0.517	9.46	0.070	3.76	3.5	161.4	40	3.7	6.7	13.5	1.2	4	20	35.8	0.5	214.7	4.8
IMA 2326	Rock Pulp	200	0.96	585	0.574	9.40	0.068	3.50	3.6	166.0	35	4.1	6.3	13.3	1.2	5	20	35.3	0.4	177.2	4.9
IMA 2327	Rock Pulp	184	2.05	317	0.498	7.45	0.244	3.00	1.9	149.9	30	2.7	6.7	8.7	0.7	2	20	39.7	0.6	84.1	4.3
IMA 2328	Rock Pulp	122	3.11	205	0.485	7.87	0.248	1.68	1.2	144.6	86	1.7	14.6	8.1	0.7	1	23	44.6	<0.1	113.7	3.9
IMA 2329	Rock Pulp	212	1.50	460	0.488	8.29	0.050	3.46	3.4	158.4	25	5.5	6.5	11.9	1.0	4	19	33.5	0.5	135.1	4.5
IMA 2330	Rock Pulp	161	2.49	224	0.504	6.93	0.677	2.19	1.9	143.0	35	2.5	8.9	9.3	0.7	2	20	38.4	0.1	47.3	4.1
IMA 2331	Rock Pulp	134	1.78	76	0.313	5.21	1.869	0.55	0.5	137.2	129	0.7	16.0	10.6	1.2	1	12	25.9	<0.1	28.9	3.9
IMA 2332	Rock Pulp	131	2.77	134	0.402	6.83	0.486	1.07	0.9	152.1	116	1.2	16.8	8.1	0.9	1	18	39.2	0.1	71.7	4.3
IMA 2333	Rock Pulp	104	2.94	38	0.460	6.26	1.545	0.31	0.4	150.8	50	0.7	9.0	6.3	0.6	<1	22	39.9	<0.1	5.2	4.2
IMA 2334	Rock Pulp	148	1.52	130	0.400	5.54	2.422	0.92	0.6	165.5	188	1.1	19.1	12.9	1.3	1	13	23.1	<0.1	67.3	4.5
IMA 2335	Rock Pulp	90	3.66	68	0.739	7.80	1.222	0.60	0.5	175.5	26	0.7	9.0	6.8	0.5	<1	35	49.7	<0.1	16.7	4.7



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2306	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA 2307	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2308	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2309	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2310	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2311	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2312	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2313	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2314	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA 2315	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2316	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA 2317	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA 2318	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2319	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2320	Rock Pulp	0.08	<0.005	<1	<0.5	1.4
IMA 2321	Rock Pulp	0.06	<0.005	<1	<0.5	0.5
IMA 2322	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2323	Rock Pulp	0.09	<0.005	<1	<0.5	2.1
IMA 2324	Rock Pulp	0.11	0.006	2	<0.5	2.1
IMA 2325	Rock Pulp	0.11	0.006	2	<0.5	2.0
IMA 2326	Rock Pulp	0.14	0.009	2	<0.5	2.1
IMA 2327	Rock Pulp	0.15	0.010	2	<0.5	1.2
IMA 2328	Rock Pulp	0.09	0.009	<1	<0.5	0.6
IMA 2329	Rock Pulp	0.11	0.009	2	<0.5	1.9
IMA 2330	Rock Pulp	0.13	0.008	1	<0.5	0.8
IMA 2331	Rock Pulp	0.06	<0.005	<1	0.8	<0.5
IMA 2332	Rock Pulp	0.09	0.019	<1	<0.5	<0.5
IMA 2333	Rock Pulp	0.09	0.005	<1	<0.5	<0.5
IMA 2334	Rock Pulp	0.05	<0.005	4	1.5	<0.5
IMA 2335	Rock Pulp	0.08	0.005	2	0.8	<0.5



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
IMA 2336	Rock Pulp	3.3	7.7	50.9	7	<0.1	7.2	8.8	29	0.63	8	118.8	676.1	22	<0.1	0.2	0.3	<1	0.03	0.082	656.7
IMA 2337	Rock Pulp	3.8	10.5	47.1	12	0.1	7.8	8.2	30	0.69	6	171.7	989.7	33	<0.1	0.2	0.3	13	0.04	0.115	977.3
IMA 2338	Rock Pulp	4.8	9.4	56.6	10	0.2	7.5	11.6	29	0.63	10	256.8	1195.1	28	<0.1	0.2	0.4	9	0.04	0.118	1071.6
IMA 2339	Rock Pulp	5.4	65.2	101.5	1164	0.4	12.0	19.4	34	0.52	17	373.6	1523.3	29	6.4	0.3	1.1	6	0.03	0.147	1437.6
IMA 2340	Rock Pulp	0.8	2.5	6.4	13	<0.1	7.3	3.7	31	0.96	1	11.6	41.7	11	<0.1	0.2	<0.1	94	0.02	0.011	29.0
IMA 2341	Rock Pulp	3.4	39.5	10.0	2	<0.1	5.8	4.4	31	0.39	5	23.9	144.6	19	<0.1	0.1	0.3	7	0.09	0.019	160.1
IMA 2342	Rock Pulp	3.3	46.7	12.5	4	<0.1	7.2	11.4	25	0.47	11	21.2	119.2	21	<0.1	0.1	0.3	9	0.01	0.014	128.8
IMA 2343	Rock Pulp	9.6	88.7	13.9	2	0.2	6.4	16.8	28	0.45	22	34.5	161.2	19	<0.1	0.2	1.1	5	0.03	0.021	188.0
IMA 2344	Rock Pulp	1.8	25.1	19.2	4	0.2	8.3	9.1	30	0.56	4	65.9	374.8	20	<0.1	0.2	0.6	6	0.03	0.046	324.1
IMA 2345	Rock Pulp	0.8	16.7	5.3	6	<0.1	5.9	2.3	27	0.55	<1	4.8	24.3	18	<0.1	<0.1	<0.1	12	0.02	0.007	56.4
IMA 2346	Rock Pulp	0.7	6.3	5.3	7	<0.1	6.7	2.4	31	0.63	<1	5.4	23.6	16	<0.1	0.1	<0.1	19	0.02	0.007	43.2
IMA 2347	Rock Pulp	2.0	14.9	4.8	9	<0.1	10.9	4.2	56	0.87	2	8.7	30.9	37	<0.1	0.3	0.1	52	0.12	0.012	39.5
IMA 2348	Rock Pulp	5.6	183.3	455.3	4	1.1	10.9	25.2	36	1.45	10	1814.5	1251.2	26	<0.1	1.0	3.6	5	0.05	0.121	1025.3
IMA 2349	Rock Pulp	3.8	26.6	36.7	4	0.2	7.9	9.1	40	0.70	4	185.2	740.3	19	<0.1	0.1	0.7	13	0.07	0.089	806.1
IMA 2350	Rock Pulp	1.5	4.6	12.9	2	<0.1	5.0	2.1	34	0.48	2	20.6	88.5	16	<0.1	0.1	0.1	8	0.02	0.015	97.8
IMA 2351	Rock Pulp	2.0	60.4	369.7	681	0.3	63.9	19.9	411	4.78	<1	3.4	9.5	88	3.6	0.2	0.5	96	0.16	0.047	23.3
IMA 2352	Rock Pulp	1.8	42.2	274.2	902	0.3	70.7	23.3	394	4.58	10	3.1	7.7	85	6.1	0.2	0.3	103	0.15	0.047	19.0
IMA 2353	Rock Pulp	2.4	5.3	52.5	4	<0.1	4.5	2.7	32	0.41	2	96.1	352.7	24	<0.1	0.1	<0.1	10	0.02	0.040	350.6
IMA 2354	Rock Pulp	1.9	28.4	21.4	48	<0.1	35.0	13.9	231	3.15	<1	10.4	28.3	102	<0.1	0.1	0.2	64	0.41	0.034	32.9
IMA 2355	Rock Pulp	1.2	172.2	16.1	63	0.1	50.9	71.7	472	7.36	5	4.4	13.0	100	<0.1	0.2	0.4	187	1.06	0.083	25.3
IMA 2356	Rock Pulp	1.5	25.8	8.7	26	<0.1	22.0	9.7	133	2.14	1	7.3	19.3	94	<0.1	<0.1	<0.1	35	0.22	0.016	25.5
IMA 2357	Rock Pulp	1.7	31.9	7.8	25	<0.1	30.4	13.7	119	2.49	2	8.1	23.1	83	<0.1	0.1	0.1	57	0.16	0.021	31.5
IMA 2358	Rock Pulp	1.7	38.7	5.4	6	<0.1	16.9	6.7	115	1.08	<1	2.1	6.6	29	<0.1	<0.1	<0.1	9	0.20	0.006	13.6
IMA 2359	Rock Pulp	1.6	39.4	7.4	15	<0.1	20.5	9.1	165	1.83	<1	3.0	9.2	40	<0.1	<0.1	<0.1	26	0.27	0.007	18.7
IMA 2360	Rock Pulp	2.4	34.9	6.9	6	<0.1	13.1	5.1	129	0.95	2	2.8	8.5	45	<0.1	<0.1	<0.1	12	0.30	0.008	17.9
IMA 2361	Rock Pulp	2.2	67.8	61.8	230	0.2	75.4	24.1	349	4.95	17	4.6	11.6	74	0.8	0.3	0.2	135	0.15	0.054	30.4
IMA 2362	Rock Pulp	1.7	62.8	113.8	340	0.3	83.7	25.3	243	4.36	14	4.2	9.2	41	1.4	0.4	0.6	136	0.11	0.045	23.0
IMA 2363	Rock Pulp	2.0	78.8	195.2	382	0.2	97.0	39.6	247	4.30	31	5.6	12.2	31	2.0	0.7	0.3	173	0.14	0.051	24.2
IMA 2364	Rock Pulp	1.4	58.7	134.6	294	0.4	65.5	21.4	310	3.99	14	4.1	10.3	69	3.5	0.2	1.0	111	0.22	0.042	25.4
IMA 2365	Rock Pulp	1.9	61.0	173.6	383	0.3	47.8	16.7	340	4.02	8	3.8	10.2	86	1.7	0.2	0.6	83	0.22	0.040	23.5



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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

Page: 5 of 9 Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA 2336	Rock Pulp	197	0.08	642	0.294	4.20	0.050	3.11	1.3	184.9	1143	2.7	56.0	26.9	3.2	2	3	9.3	0.2	173.3	5.2
IMA 2337	Rock Pulp	175	0.12	964	0.325	6.09	0.094	4.25	2.3	271.9	1727	3.6	75.4	29.1	3.3	2	3	18.3	<0.1	220.2	8.1
IMA 2338	Rock Pulp	181	0.08	776	0.345	4.58	0.075	3.64	1.8	250.5	1921	2.8	86.6	32.1	3.8	2	3	12.6	0.1	194.2	7.1
IMA 2339	Rock Pulp	212	0.05	699	0.324	3.30	0.046	3.44	1.8	173.0	>2000	2.1	118.6	38.5	4.7	<1	2	9.0	0.1	165.0	5.1
IMA 2340	Rock Pulp	177	0.24	762	0.295	9.34	0.096	3.88	2.2	244.8	75	7.2	5.1	8.3	0.7	7	11	12.7	<0.1	256.9	6.9
IMA 2341	Rock Pulp	186	0.04	662	0.152	2.96	0.043	2.85	0.7	123.0	277	1.2	16.1	11.4	1.2	<1	1	2.1	<0.1	129.4	3.5
IMA 2342	Rock Pulp	174	0.07	795	0.160	4.15	0.049	3.06	0.7	175.2	222	2.1	13.9	11.1	1.2	1	2	3.9	<0.1	163.4	5.0
IMA 2343	Rock Pulp	188	0.03	760	0.136	3.32	0.044	3.21	0.7	117.9	321	1.5	16.1	10.7	1.2	<1	1	2.4	<0.1	144.7	3.3
IMA 2344	Rock Pulp	187	0.08	731	0.169	3.55	0.048	2.76	1.1	105.5	561	2.1	40.4	15.7	2.0	<1	2	18.4	<0.1	138.5	2.9
IMA 2345	Rock Pulp	127	0.12	857	0.096	5.94	0.069	3.60	0.5	105.2	92	1.9	5.1	5.6	0.6	2	2	6.0	<0.1	187.1	2.9
IMA 2346	Rock Pulp	169	0.13	776	0.119	5.98	0.116	3.21	0.5	133.7	73	2.2	4.5	5.9	0.6	2	3	5.5	<0.1	184.8	3.9
IMA 2347	Rock Pulp	131	0.32	578	0.188	7.41	1.150	3.10	1.3	219.7	73	3.1	6.8	6.3	0.6	3	6	8.7	<0.1	188.6	6.3
IMA 2348	Rock Pulp	240	0.10	465	0.263	3.24	0.044	2.71	1.6	134.9	1827	4.2	182.1	41.1	7.4	3	2	14.1	0.9	151.3	3.9
IMA 2349	Rock Pulp	210	0.15	412	0.178	4.40	0.049	3.37	0.5	144.1	1347	2.9	84.0	18.4	2.2	2	3	12.0	0.1	201.7	3.8
IMA 2350	Rock Pulp	182	0.08	508	0.124	4.11	0.041	2.77	0.2	108.9	158	1.8	10.2	8.6	0.9	1	2	3.5	<0.1	166.8	2.9
IMA 2351	Rock Pulp	167	1.65	168	0.159	6.96	3.324	0.96	0.6	144.2	48	1.6	6.6	3.3	0.3	<1	12	31.3	0.2	58.6	4.1
IMA 2352	Rock Pulp	148	1.70	253	0.158	7.29	3.116	1.46	0.9	124.7	38	1.8	6.6	3.1	0.3	2	12	31.6	0.1	84.9	3.4
IMA 2353	Rock Pulp	146	0.06	576	0.138	4.52	0.232	3.24	0.8	114.4	615	1.5	27.5	12.0	1.4	1	2	2.5	<0.1	152.8	3.3
IMA 2354	Rock Pulp	153	1.31	151	0.092	6.61	3.160	1.35	0.4	212.4	68	1.6	6.5	2.2	0.2	1	8	19.6	<0.1	73.1	5.9
IMA 2355	Rock Pulp	151	2.21	50	0.161	5.77	2.033	0.51	0.6	130.7	49	0.8	6.2	2.1	0.1	1	19	30.3	1.6	27.4	3.4
IMA 2356	Rock Pulp	217	0.80	77	0.068	4.87	3.004	0.58	0.4	133.6	46	0.8	4.8	2.0	0.2	<1	5	11.9	0.1	34.9	3.5
IMA 2357	Rock Pulp	199	0.93	159	0.092	6.28	2.854	1.47	0.8	171.9	61	1.4	5.9	2.2	0.2	2	8	14.5	0.2	81.3	4.7
IMA 2358	Rock Pulp	269	0.26	5	0.017	1.65	1.177	0.03	0.2	39.1	24	0.2	1.8	1.4	<0.1	<1	1	3.6	0.1	1.5	1.0
IMA 2359	Rock Pulp	315	0.56	26	0.025	2.99	1.669	0.23	0.4	54.9	35	0.4	2.5	0.9	<0.1	<1	4	8.4	0.1	13.7	1.6
IMA 2360	Rock Pulp	275	0.27	9	0.024	2.66	1.992	0.08	0.2	50.6	34	0.3	2.8	1.0	<0.1	<1	1	2.8	<0.1	5.0	1.5
IMA 2361	Rock Pulp	192	1.85	478	0.269	7.95	2.161	2.67	1.5	166.2	62	2.4	8.1	5.5	0.4	2	17	40.8	0.1	156.2	4.7
IMA 2362	Rock Pulp	180	1.38	449	0.314	8.08	1.102	3.41	2.0	136.9	49	2.4	7.8	6.9	0.6	2	17	36.9	0.2	196.4	3.9
IMA 2363	Rock Pulp	214	1.38	610	0.381	11.74	0.407	4.38	3.6	167.4	54	3.8	8.4	9.9	0.8	3	23	45.3	0.2	256.6	4.7
IMA 2364	Rock Pulp	192	1.41	386	0.248	7.14	1.858	2.59	1.3	132.9	52	1.9	7.7	5.3	0.4	2	13	31.7	0.1	153.3	3.8
IMA 2365	Rock Pulp	158	1.42	184	0.159	6.30	2.924	1.18	0.8	131.5	49	1.6	6.1	3.1	0.3	1	11	27.8	0.1	68.8	3.8

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	TI	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2336	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2337	Rock Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA 2338	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2339	Rock Pulp	0.09	<0.005	2	<0.5	1.0
IMA 2340	Rock Pulp	0.13	<0.005	<1	<0.5	1.6
IMA 2341	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2342	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2343	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2344	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2345	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2346	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2347	Rock Pulp	0.05	<0.005	<1	<0.5	1.2
IMA 2348	Rock Pulp	0.06	<0.005	4	<0.5	1.1
IMA 2349	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA 2350	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2351	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2352	Rock Pulp	0.14	<0.005	<1	<0.5	0.5
IMA 2353	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2354	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2355	Rock Pulp	0.06	<0.005	2	<0.5	<0.5
IMA 2356	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2357	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2358	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2359	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2360	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2361	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2362	Rock Pulp	0.09	<0.005	<1	<0.5	1.2
IMA 2363	Rock Pulp	0.10	<0.005	<1	<0.5	1.9
IMA 2364	Rock Pulp	0.09	<0.005	<1	<0.5	0.8
IMA 2365	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Project: None Given
Report Date: January 30, 2018

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA 2366	Rock Pulp	2.0	54.7	394.1	654	0.4	54.2	20.4	317	4.24	11	4.6	12.2	86	3.3	0.2	0.5	93	0.19	0.040	23.8
IMA 2367	Rock Pulp	1.6	38.8	167.7	122	0.3	39.5	17.3	276	3.17	10	3.7	10.1	92	0.2	0.1	0.8	61	0.28	0.037	15.5
IMA 2368	Rock Pulp	1.8	45.6	157.2	309	0.4	63.4	18.8	326	4.42	8	4.5	10.2	78	1.5	0.3	0.6	98	0.14	0.040	18.2
IMA 2369	Rock Pulp	1.8	48.3	143.6	305	0.2	84.9	29.6	359	4.82	19	4.2	9.3	67	1.1	0.3	0.6	128	0.15	0.052	22.9
IMA 2370	Rock Pulp	1.6	38.6	178.8	423	0.4	75.6	28.8	353	4.47	21	3.9	9.1	70	1.9	0.3	0.5	118	0.13	0.047	22.3
IMA 2371	Rock Pulp	2.3	41.1	140.8	749	0.2	68.7	21.3	442	5.18	4	3.7	9.3	88	6.5	0.2	0.5	121	0.16	0.050	22.7
IMA 2372	Rock Pulp	2.2	18.1	56.3	114	0.1	42.5	19.3	289	4.15	15	4.5	15.0	81	0.3	0.1	0.1	81	0.13	0.026	27.5
IMA 2373	Rock Pulp	3.0	27.3	59.0	146	<0.1	50.1	32.2	325	4.86	28	6.3	26.3	68	0.5	0.2	0.2	97	0.14	0.044	49.5
IMA 2374	Rock Pulp	3.4	34.0	46.2	82	0.1	53.9	29.1	248	4.72	23	11.1	37.4	38	0.2	0.2	0.1	123	0.15	0.054	58.6
IMA 2375	Rock Pulp	2.2	16.4	18.5	10	<0.1	13.6	7.6	78	1.39	6	9.1	40.8	36	<0.1	0.2	1.0	29	0.06	0.011	46.5
IMA 2376	Rock Pulp	2.5	13.0	15.3	8	<0.1	8.4	5.1	51	1.09	2	11.4	43.8	55	<0.1	<0.1	0.2	17	0.02	0.008	53.1
IMA 2377	Rock Pulp	2.9	12.4	16.2	10	0.1	27.6	24.9	49	1.42	2	17.4	99.2	53	<0.1	0.5	0.3	19	0.02	0.013	93.4
IMA 2378	Rock Pulp	1.8	81.2	9.1	23	0.2	46.0	21.1	203	4.70	12	8.8	29.1	62	<0.1	0.1	0.6	89	0.14	0.041	47.5
IMA 2379	Rock Pulp	1.4	27.6	21.4	61	<0.1	52.8	18.3	247	5.30	6	6.8	14.8	26	<0.1	0.2	0.1	147	0.06	0.025	18.6
IMA 2380	Rock Pulp	2.9	106.6	374.3	829	0.4	36.8	19.3	233	4.26	11	14.6	53.1	64	4.8	<0.1	0.4	80	0.13	0.041	81.9
IMA 2381	Rock Pulp	3.2	62.1	367.5	575	0.3	35.5	22.8	249	4.39	14	22.1	77.7	59	3.4	<0.1	0.5	71	0.14	0.036	99.2
IMA 2382	Rock Pulp	2.5	53.0	146.0	153	0.2	31.5	13.8	185	3.33	6	88.8	130.1	58	0.5	0.1	0.5	63	0.16	0.036	94.1
IMA 2383	Rock Pulp	1.8	14.1	12.4	17	0.1	23.7	9.4	167	2.54	3	2.9	10.6	48	<0.1	0.1	0.3	55	0.25	0.013	25.8
IMA 2384	Rock Pulp	2.1	19.2	11.0	17	0.2	29.8	10.2	326	2.92	1	3.1	11.6	51	<0.1	0.1	0.2	70	0.58	0.014	35.8
IMA 2385	Rock Pulp	2.3	45.4	17.2	14	0.3	27.9	15.0	313	2.53	8	22.6	46.9	32	<0.1	0.2	0.8	60	0.66	0.029	55.2
IMA 2386	Rock Pulp	2.6	61.5	17.6	13	0.1	22.5	14.7	166	2.00	13	39.0	83.9	31	<0.1	0.1	0.5	54	0.46	0.032	76.2
IMA 2387	Rock Pulp	1.9	52.3	49.4	47	0.1	17.1	18.0	147	0.90	14	69.0	463.4	25	<0.1	0.2	0.6	16	0.26	0.057	569.2
IMA 2388	Rock Pulp	1.6	8.1	12.8	12	<0.1	10.1	4.1	47	1.19	<1	14.3	74.9	46	<0.1	0.1	0.1	21	0.02	0.014	108.3
IMA 2389	Rock Pulp	2.0	10.1	12.3	18	0.1	12.7	9.1	44	1.41	3	16.1	80.6	51	<0.1	<0.1	0.2	16	0.03	0.015	93.6
IMA 2390	Rock Pulp	3.6	14.3	16.8	10	0.1	14.0	6.6	55	2.14	2	17.9	84.8	51	<0.1	<0.1	0.2	26	0.01	0.011	89.2
IMA 2391	Rock Pulp	2.4	25.4	10.4	17	0.2	33.7	12.6	104	3.16	5	20.1	58.5	47	<0.1	0.2	<0.1	90	0.07	0.012	64.8
IMA 2392	Rock Pulp	2.8	44.1	10.1	17	0.2	45.5	21.8	131	3.72	14	10.8	37.7	65	<0.1	0.1	0.2	94	0.12	0.032	60.1
IMA 2393	Rock Pulp	1.8	39.5	874.5	1384	0.7	82.5	25.8	326	4.03	15	3.7	7.6	52	7.4	0.2	0.5	126	0.14	0.042	21.3
IMA 2394	Rock Pulp	2.3	51.6	572.2	1093	0.5	59.2	16.5	288	3.35	7	3.8	10.2	67	6.1	0.2	0.3	88	0.25	0.039	26.0
IMA 2395	Rock Pulp	2.1	49.2	181.3	331	0.3	51.4	18.5	248	3.21	8	4.7	10.4	76	1.1	0.2	0.4	79	0.27	0.035	25.6

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Client: **MacGregor, R.A.**
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
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Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
IMA 2366	Rock Pulp	165	1.45	231	0.185	6.93	2.784	1.52	0.8	158.4	51	1.9	7.3	3.5	0.3	2	13	30.8	0.1	91.4	4.5
IMA 2367	Rock Pulp	191	0.96	82	0.135	5.74	3.320	0.51	0.5	131.7	32	0.7	5.2	2.6	0.2	<1	8	18.8	0.1	30.5	3.7
IMA 2368	Rock Pulp	196	1.45	203	0.184	6.38	2.597	1.39	0.8	147.9	39	1.6	6.3	3.4	0.3	1	13	30.2	0.1	82.8	4.3
IMA 2369	Rock Pulp	197	1.75	359	0.187	7.62	2.196	2.43	1.3	143.8	48	2.3	7.0	3.3	0.3	3	15	38.4	0.1	132.9	4.2
IMA 2370	Rock Pulp	162	1.68	337	0.181	7.39	2.492	2.14	1.2	131.2	47	2.2	6.7	3.3	0.3	2	13	36.2	<0.1	114.1	3.8
IMA 2371	Rock Pulp	184	1.86	228	0.176	7.37	3.227	1.42	0.8	148.2	48	2.1	6.6	3.4	0.3	1	16	36.4	0.2	75.1	4.4
IMA 2372	Rock Pulp	125	1.02	699	0.337	7.14	2.019	2.96	0.7	166.0	54	2.1	5.0	7.6	0.7	2	10	30.2	<0.1	217.8	4.8
IMA 2373	Rock Pulp	159	1.14	674	0.435	7.00	1.720	2.53	0.7	251.9	93	2.0	7.6	9.6	0.9	2	13	29.4	0.1	201.1	7.8
IMA 2374	Rock Pulp	150	1.20	849	0.484	7.72	0.826	3.64	1.0	367.0	114	3.3	10.3	12.4	1.1	3	15	39.1	0.2	244.5	11.7
IMA 2375	Rock Pulp	217	0.37	1056	0.159	5.49	0.067	3.38	0.7	128.7	86	2.3	7.4	10.7	1.0	3	4	16.6	<0.1	165.2	3.7
IMA 2376	Rock Pulp	168	0.29	1171	0.163	5.88	0.084	3.19	0.5	130.6	93	2.0	7.0	10.9	1.1	2	3	13.3	<0.1	143.3	3.8
IMA 2377	Rock Pulp	200	0.29	1145	0.221	5.41	0.080	3.36	0.6	160.7	156	2.3	12.5	14.5	1.5	2	3	13.1	0.3	154.6	4.8
IMA 2378	Rock Pulp	156	1.28	596	0.387	6.42	1.905	2.66	0.7	287.3	89	1.8	8.4	9.8	0.8	3	10	35.4	<0.1	152.3	8.6
IMA 2379	Rock Pulp	161	1.40	908	0.468	8.37	0.740	4.63	1.3	208.3	42	3.8	5.8	10.7	0.9	5	15	43.9	<0.1	219.3	6.3
IMA 2380	Rock Pulp	173	0.90	605	0.391	6.30	2.566	2.27	0.6	371.0	137	2.1	12.6	10.2	1.2	1	12	19.3	0.2	94.7	11.8
IMA 2381	Rock Pulp	197	0.85	714	0.396	5.78	1.936	2.68	0.7	484.9	167	2.1	14.5	11.7	1.1	<1	11	18.5	0.2	115.8	15.0
IMA 2382	Rock Pulp	142	0.71	706	0.328	6.18	2.606	2.89	0.6	293.7	165	2.3	20.5	12.1	1.2	<1	8	16.7	0.1	130.5	8.8
IMA 2383	Rock Pulp	134	0.60	642	0.224	6.46	2.596	2.62	0.5	100.7	47	1.9	3.8	5.9	0.5	1	7	17.5	0.1	128.5	3.0
IMA 2384	Rock Pulp	120	0.73	699	0.250	7.13	2.553	3.52	0.5	99.2	68	2.1	4.4	6.4	0.5	<1	8	20.9	0.2	146.4	3.0
IMA 2385	Rock Pulp	129	0.60	694	0.162	6.76	1.793	3.18	0.6	308.2	105	1.9	9.3	6.1	0.5	1	8	20.2	0.3	150.4	8.0
IMA 2386	Rock Pulp	166	0.46	768	0.166	5.85	1.362	3.60	0.8	270.5	145	1.7	11.6	7.5	0.7	1	6	19.9	0.1	165.4	7.5
IMA 2387	Rock Pulp	244	0.12	565	0.204	2.51	0.056	2.69	2.2	206.1	1055	1.1	35.5	25.8	2.1	<1	2	3.7	0.3	113.1	5.4
IMA 2388	Rock Pulp	158	0.33	1315	0.216	5.80	0.069	5.33	0.7	134.6	202	1.9	11.3	16.5	1.6	1	3	14.8	<0.1	205.4	3.8
IMA 2389	Rock Pulp	162	0.36	1350	0.203	5.63	0.094	6.26	0.5	136.5	166	1.3	10.7	16.8	1.7	1	3	15.4	<0.1	193.2	3.5
IMA 2390	Rock Pulp	167	0.54	1678	0.251	6.78	0.371	6.20	0.6	207.6	174	2.1	11.0	19.2	2.0	2	4	19.4	<0.1	219.0	5.8
IMA 2391	Rock Pulp	110	0.91	1192	0.379	8.74	1.135	5.11	1.0	496.9	125	4.0	11.9	15.4	1.4	3	11	33.0	0.1	243.1	13.9
IMA 2392	Rock Pulp	130	1.05	991	0.417	8.34	1.870	3.46	1.1	466.6	123	3.6	10.4	13.7	1.2	3	12	34.7	0.1	183.6	13.0
IMA 2393	Rock Pulp	198	1.60	452	0.234	7.27	1.868	2.46	1.4	161.1	46	2.4	7.8	4.8	0.4	2	13	32.4	0.1	118.5	4.3
IMA 2394	Rock Pulp	212	1.25	319	0.211	6.29	2.410	1.78	1.0	160.8	54	1.8	7.9	4.6	0.4	<1	12	23.8	0.2	93.7	4.5
IMA 2395	Rock Pulp	193	1.12	247	0.218	6.04	2.961	1.18	0.9	173.9	52	1.6	7.5	4.9	0.4	<1	11	19.1	0.2	61.7	4.6

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2366	Rock Pulp	0.06	<0.005	<1	<0.5	0.5
IMA 2367	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2368	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA 2369	Rock Pulp	0.08	<0.005	<1	<0.5	0.9
IMA 2370	Rock Pulp	0.08	0.006	<1	<0.5	0.7
IMA 2371	Rock Pulp	0.16	<0.005	<1	<0.5	<0.5
IMA 2372	Rock Pulp	0.06	<0.005	<1	<0.5	1.5
IMA 2373	Rock Pulp	0.06	0.006	<1	<0.5	1.7
IMA 2374	Rock Pulp	0.08	<0.005	<1	<0.5	1.9
IMA 2375	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2376	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2377	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2378	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2379	Rock Pulp	0.08	<0.005	<1	<0.5	2.0
IMA 2380	Rock Pulp	0.06	<0.005	<1	<0.5	0.6
IMA 2381	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2382	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2383	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2384	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2385	Rock Pulp	0.05	<0.005	<1	<0.5	0.9
IMA 2386	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2387	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA 2388	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2389	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2390	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2391	Rock Pulp	0.06	<0.005	<1	<0.5	1.6
IMA 2392	Rock Pulp	0.07	<0.005	<1	<0.5	1.4
IMA 2393	Rock Pulp	0.10	<0.005	<1	<0.5	0.9
IMA 2394	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA 2395	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA 2396	Rock Pulp	1.6	56.0	100.6	146	0.2	48.1	21.6	210	2.88	15	4.5	10.5	77	0.7	0.1	0.4	57	0.27	0.031	22.2
IMA 2397	Rock Pulp	2.0	45.2	269.7	449	0.3	69.3	17.8	233	3.89	13	4.3	9.5	58	1.7	0.2	0.3	115	0.16	0.041	25.5
IMA 2398	Rock Pulp	1.4	56.6	228.7	375	0.3	58.7	18.1	222	3.66	17	3.6	9.1	68	1.4	0.2	0.4	84	0.14	0.034	19.7
IMA 2399	Rock Pulp	1.5	54.2	424.3	627	0.4	72.1	19.8	247	4.30	18	3.3	7.7	43	2.7	0.2	0.6	103	0.09	0.039	17.3
IMA 2400	Rock Pulp	2.1	82.0	51.3	73	0.2	95.9	41.4	216	4.01	52	4.2	8.7	14	0.1	0.3	0.3	170	0.08	0.043	21.6
IMA 2401	Rock Pulp	5.1	2.5	22.2	6	<0.1	5.9	5.3	29	0.41	7	26.4	120.4	18	<0.1	0.1	0.1	6	0.06	0.014	90.4
IMA 2402	Rock Pulp	5.9	14.1	29.2	10	0.1	31.2	15.3	27	0.45	50	75.3	387.2	19	<0.1	0.5	0.4	8	0.04	0.048	521.6
IMA 2403	Rock Pulp	3.4	3.8	28.6	7	0.1	7.1	23.9	27	0.43	27	125.7	348.0	19	<0.1	0.2	0.5	8	0.05	0.049	446.3
IMA 2404	Rock Pulp	2.0	4.6	14.6	3	<0.1	5.8	7.0	27	0.37	8	24.9	113.2	19	<0.1	0.1	0.2	8	0.04	0.017	154.2
IMA 2405	Rock Pulp	8.2	2.4	21.5	4	<0.1	5.4	5.1	26	0.46	4	80.3	129.3	18	<0.1	0.1	0.2	9	0.02	0.015	156.1
IMA 2406	Rock Pulp	3.6	2.7	49.0	4	<0.1	11.2	25.8	27	1.01	29	107.9	468.5	17	<0.1	0.2	0.7	6	0.02	0.047	534.7
IMA 2407	Rock Pulp	3.8	13.5	35.1	3	0.1	7.4	7.1	27	0.60	7	175.4	595.8	25	<0.1	0.1	0.7	10	0.03	0.064	722.2
IMA 2408	Rock Pulp	2.3	14.9	24.7	2	0.1	6.4	6.7	30	0.54	5	62.9	368.4	24	<0.1	<0.1	0.5	10	0.06	0.046	443.9
IMA 2409	Rock Pulp	3.2	14.1	42.3	<1	0.1	8.6	10.6	26	0.66	8	118.8	769.5	24	<0.1	0.2	0.6	14	0.03	0.078	901.9
IMA 2410	Rock Pulp	2.2	5.9	25.8	3	0.2	7.9	7.4	29	0.68	5	62.8	359.1	21	<0.1	0.1	0.5	12	0.03	0.041	464.8
IMA 2411	Rock Pulp	6.9	34.9	35.8	4	0.2	9.8	12.8	37	0.78	14	198.4	969.3	22	<0.1	0.2	0.4	11	0.08	0.092	1168.8
IMA 2412	Rock Pulp	2.1	3.1	18.3	1	<0.1	4.8	2.0	26	0.41	2	31.8	155.1	17	<0.1	<0.1	<0.1	8	0.02	0.023	197.1
IMA 2413	Rock Pulp	5.3	5.5	33.9	4	<0.1	4.9	4.7	27	0.51	3	72.1	449.7	25	<0.1	0.2	0.3	15	0.06	0.054	488.2
IMA 2414	Rock Pulp	2.3	10.0	95.0	4	<0.1	5.5	4.2	25	0.44	2	124.5	404.4	23	<0.1	0.1	0.4	8	0.04	0.041	444.2
IMA 2415	Rock Pulp	7.2	15.8	57.7	1	<0.1	8.1	9.4	28	0.58	5	192.4	971.8	23	<0.1	<0.1	0.8	12	0.04	0.099	1180.9
IMA 2416	Rock Pulp	3.7	12.9	39.7	1	<0.1	7.1	6.8	31	0.47	4	121.9	764.8	23	<0.1	0.1	0.8	12	0.05	0.079	845.9
IMA 2417	Rock Pulp	23.6	22.4	63.8	54	0.1	8.7	5.1	102	1.79	1	17.7	69.5	54	0.2	0.1	<0.1	23	0.10	0.011	73.1
IMA 2418	Rock Pulp	8.0	29.8	63.2	36	0.1	11.0	8.2	166	1.61	3	33.5	153.1	59	<0.1	0.1	0.4	18	0.22	0.019	179.7
IMA 2419	Rock Pulp	1.7	135.5	154.8	381	0.3	70.9	34.7	508	7.80	10	19.1	42.1	17	1.2	0.2	0.4	197	0.15	0.065	39.0
IMA 2420	Rock Pulp	1.9	89.3	58.3	155	0.2	53.5	26.2	398	6.34	3	23.3	49.1	19	0.3	0.1	0.3	152	0.13	0.050	59.0
IMA 2421	Rock Pulp	1.8	115.9	112.8	101	0.5	35.7	22.1	574	6.35	4	38.2	98.3	50	<0.1	0.2	0.5	134	0.65	0.051	123.2
IMA 2422	Rock Pulp	0.3	171.0	123.2	214	0.9	80.5	44.9	1121	14.17	16	3.6	2.9	23	0.2	0.1	0.8	352	0.34	0.101	5.1
IMA 2423	Rock Pulp	2.6	318.0	299.6	330	1.1	17.6	13.4	242	2.52	6	42.8	95.4	55	1.4	0.2	1.0	42	0.19	0.034	114.0
IMA 2424	Rock Pulp	2.1	62.5	283.3	392	0.3	30.8	21.7	238	4.03	7	58.1	130.4	59	1.6	0.1	0.3	66	0.16	0.047	160.7
IMA 2425	Rock Pulp	2.4	32.1	185.4	228	0.2	20.3	13.0	213	3.04	6	59.6	142.7	68	0.9	0.2	0.4	59	0.15	0.041	161.7



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
IMA 2396	Rock Pulp	237	0.91	129	0.189	5.38	3.160	0.53	0.7	174.0	46	0.8	5.4	3.9	0.4	<1	7	13.5	0.2	24.6	4.8
IMA 2397	Rock Pulp	206	1.41	468	0.309	6.83	2.138	2.38	1.3	170.8	54	2.4	7.0	7.4	0.7	2	13	29.1	0.1	124.3	4.4
IMA 2398	Rock Pulp	194	1.20	295	0.234	6.34	2.479	1.65	0.9	135.6	39	1.3	6.5	5.6	0.5	<1	10	22.1	0.1	85.0	3.9
IMA 2399	Rock Pulp	209	1.29	352	0.278	6.82	1.571	2.48	1.5	140.6	37	1.7	7.0	7.2	0.6	2	13	27.3	<0.1	134.5	3.7
IMA 2400	Rock Pulp	172	1.08	632	0.424	9.60	0.096	4.58	3.1	150.2	50	2.9	7.7	11.4	0.9	3	19	35.2	0.2	216.8	4.0
IMA 2401	Rock Pulp	127	0.03	699	0.070	2.85	0.052	3.61	0.5	88.6	160	0.8	9.0	6.7	0.7	<1	<1	0.8	0.1	138.4	2.5
IMA 2402	Rock Pulp	167	0.03	724	0.125	3.11	0.050	2.76	1.0	91.2	881	1.1	30.1	14.1	1.8	<1	1	1.5	0.1	112.6	2.7
IMA 2403	Rock Pulp	169	0.04	779	0.103	3.36	0.053	3.09	0.7	99.0	802	1.1	27.0	11.6	1.3	<1	1	1.8	0.1	139.4	2.6
IMA 2404	Rock Pulp	126	0.04	772	0.066	3.72	0.065	3.10	0.5	80.4	287	0.9	8.6	6.0	0.6	<1	1	1.7	<0.1	138.1	2.2
IMA 2405	Rock Pulp	152	0.07	822	0.100	4.24	0.057	3.77	0.6	100.3	276	1.7	14.4	9.3	1.0	1	2	3.7	<0.1	184.7	2.8
IMA 2406	Rock Pulp	206	0.03	274	0.095	3.07	0.056	3.46	0.9	79.5	961	1.3	32.7	12.6	1.8	<1	1	2.4	0.7	155.6	2.2
IMA 2407	Rock Pulp	159	0.10	916	0.172	4.70	0.063	3.84	0.7	161.4	1205	2.4	51.8	20.4	2.3	2	2	6.5	0.2	198.1	4.3
IMA 2408	Rock Pulp	162	0.09	882	0.197	4.10	0.054	3.88	0.5	147.7	781	1.9	29.1	19.7	2.3	1	2	4.4	0.1	193.4	4.1
IMA 2409	Rock Pulp	150	0.13	881	0.329	4.72	0.058	3.56	1.0	245.6	1584	3.0	61.8	33.7	4.3	2	3	8.0	0.1	190.7	6.7
IMA 2410	Rock Pulp	172	0.15	924	0.189	4.73	0.055	3.92	1.0	178.5	779	3.1	34.1	17.8	2.0	2	2	7.8	<0.1	223.4	5.0
IMA 2411	Rock Pulp	175	0.09	750	0.177	2.78	0.045	3.16	1.2	134.3	>2000	1.8	70.3	21.8	3.2	1	2	6.8	0.3	155.9	4.0
IMA 2412	Rock Pulp	149	0.07	654	0.185	4.30	0.047	3.38	0.3	145.2	340	1.7	15.1	16.1	1.8	1	2	4.2	<0.1	178.6	4.4
IMA 2413	Rock Pulp	150	0.09	863	0.323	5.33	0.070	3.56	0.9	259.1	894	3.6	30.6	28.7	3.5	3	3	10.5	<0.1	200.1	7.5
IMA 2414	Rock Pulp	142	0.07	759	0.166	4.45	0.053	3.57	0.6	134.1	726	2.0	32.3	16.7	2.0	2	2	2.8	<0.1	184.0	4.0
IMA 2415	Rock Pulp	193	0.06	619	0.375	3.69	0.049	3.05	0.6	214.4	>2000	2.4	77.8	40.7	5.1	1	2	5.1	0.2	163.8	6.5
IMA 2416	Rock Pulp	167	0.07	719	0.325	4.08	0.048	3.21	0.5	228.4	1428	2.3	61.3	34.8	4.2	1	3	5.3	<0.1	167.8	6.9
IMA 2417	Rock Pulp	95	0.38	1490	0.144	7.51	0.907	4.58	0.9	136.6	132	3.1	7.8	12.0	1.2	1	3	14.2	<0.1	184.1	4.1
IMA 2418	Rock Pulp	138	0.29	1104	0.196	5.31	1.194	3.32	0.5	140.0	324	1.1	15.0	17.1	1.9	<1	2	8.9	0.1	130.5	3.9
IMA 2419	Rock Pulp	169	1.87	279	0.542	7.21	0.549	2.48	1.8	162.6	75	2.2	12.9	11.0	1.0	2	19	31.9	0.4	90.2	4.3
IMA 2420	Rock Pulp	211	1.47	379	0.459	7.23	0.492	2.74	1.9	161.1	111	2.2	13.9	11.6	1.3	2	16	26.8	0.3	128.5	4.6
IMA 2421	Rock Pulp	186	1.47	198	0.449	6.32	1.813	1.35	0.7	162.3	217	1.1	22.2	12.4	1.3	1	16	22.6	0.2	84.9	4.1
IMA 2422	Rock Pulp	99	3.33	124	0.912	7.10	1.015	1.05	0.7	188.5	12	1.0	7.6	7.8	0.5	2	29	57.8	<0.1	15.5	5.1
IMA 2423	Rock Pulp	215	0.57	346	0.217	5.53	1.754	1.97	1.0	189.8	208	1.4	19.2	12.6	1.5	2	5	15.2	0.1	125.9	5.3
IMA 2424	Rock Pulp	226	0.82	587	0.348	6.21	1.757	3.04	0.8	211.1	319	2.1	23.8	17.4	2.1	1	7	19.9	0.2	213.3	6.1
IMA 2425	Rock Pulp	173	0.68	753	0.301	6.70	1.762	3.75	0.8	213.0	330	2.5	24.1	18.2	2.3	<1	7	17.9	0.1	206.9	6.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2396	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2397	Rock Pulp	0.09	<0.005	<1	<0.5	0.7
IMA 2398	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2399	Rock Pulp	0.06	<0.005	1	<0.5	0.8
IMA 2400	Rock Pulp	0.07	<0.005	<1	<0.5	1.9
IMA 2401	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2402	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2403	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2404	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2405	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2406	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2407	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2408	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2409	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2410	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2411	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2412	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2413	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA 2414	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2415	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2416	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2417	Rock Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA 2418	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2419	Rock Pulp	0.11	<0.005	2	<0.5	1.0
IMA 2420	Rock Pulp	0.07	0.009	<1	<0.5	0.9
IMA 2421	Rock Pulp	0.05	<0.005	1	<0.5	0.5
IMA 2422	Rock Pulp	0.14	0.006	1	<0.5	<0.5
IMA 2423	Rock Pulp	0.14	<0.005	1	<0.5	0.8
IMA 2424	Rock Pulp	<0.05	<0.005	<1	<0.5	1.6
IMA 2425	Rock Pulp	0.05	<0.005	<1	<0.5	1.3



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method Analyte Unit MDL	MA200																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA 2426	Rock Pulp	0.5	23.5	95.1	361	<0.1	74.1	40.3	1165	15.34	10	5.8	6.7	9	0.4	0.2	0.1	296	0.22	0.091	10.2
IMA 2427	Rock Pulp	3.0	38.5	304.6	269	0.3	20.1	16.9	194	3.00	9	55.7	130.7	61	1.4	0.2	0.4	49	0.13	0.044	163.7
IMA 2428	Rock Pulp	2.7	30.6	411.8	459	0.5	19.6	21.1	201	2.88	13	62.9	137.0	60	2.1	0.2	0.5	48	0.17	0.038	157.9
IMA 2429	Rock Pulp	2.9	37.5	221.8	215	0.3	20.5	13.7	213	3.10	4	58.9	141.7	57	0.9	0.2	0.4	58	0.15	0.041	168.7
IMA 2430	Rock Pulp	2.8	33.7	123.2	75	0.3	20.2	12.2	188	2.65	4	63.3	146.3	65	0.3	0.2	0.5	46	0.17	0.040	182.5
IMA 2431	Rock Pulp	1.7	78.4	115.4	383	0.2	47.9	15.9	250	4.10	11	6.8	19.9	75	1.6	<0.1	0.2	96	0.16	0.027	44.5
IMA 2432	Rock Pulp	2.1	130.6	21.5	476	0.3	50.9	20.4	210	4.31	14	8.8	26.2	73	0.2	0.1	0.3	102	0.13	0.034	45.1
IMA 2433	Rock Pulp	1.9	40.4	19.5	141	0.2	56.6	19.3	260	5.09	11	7.6	18.7	55	0.5	0.1	0.2	119	0.10	0.025	33.7
IMA 2434	Rock Pulp	2.5	23.3	235.7	212	0.4	23.4	12.5	195	2.81	5	57.0	135.0	49	0.8	0.1	0.6	54	0.15	0.045	160.5
IMA 2435	Rock Pulp	2.2	16.0	210.0	285	0.2	53.8	14.4	343	4.88	3	6.3	17.7	68	1.3	0.2	<0.1	97	0.09	0.013	27.9
IMA 2436	Rock Pulp	1.3	13.3	37.5	79	<0.1	44.0	15.4	332	4.82	4	5.1	10.7	41	0.2	0.2	<0.1	100	0.10	0.018	16.9
IMA 2437	Rock Pulp	1.3	2.8	11.1	48	<0.1	57.5	13.7	355	5.29	2	4.3	6.6	32	<0.1	0.1	<0.1	122	0.08	0.009	11.0
IMA 2438	Rock Pulp	1.2	13.3	120.3	134	0.2	15.3	6.6	167	1.29	5	4.8	21.0	56	0.5	<0.1	0.3	19	0.21	0.006	23.6
IMA 2439	Rock Pulp	1.8	11.3	51.6	104	<0.1	43.1	14.3	239	4.05	9	3.2	8.0	64	0.3	0.1	<0.1	85	0.09	0.014	17.3
IMA 2440	Rock Pulp	5.3	14.2	21.7	5	0.1	7.5	8.3	53	0.77	7	97.0	406.9	24	<0.1	0.2	0.3	12	0.14	0.044	469.6
IMA 2441	Rock Pulp	8.4	118.8	201.9	12	0.9	28.2	27.8	270	2.53	17	158.4	600.6	48	<0.1	0.2	2.9	20	0.25	0.062	588.6
IMA 2442	Rock Pulp	6.2	34.2	41.6	15	<0.1	11.0	6.4	178	1.67	2	20.6	90.8	51	<0.1	0.2	0.1	23	0.35	0.077	120.9
IMA 2443	Rock Pulp	1.2	2.7	9.9	3	<0.1	5.7	1.9	29	0.51	<1	19.9	100.5	23	<0.1	<0.1	<0.1	11	0.02	0.016	117.5
IMA 2444	Rock Pulp	1.7	2.7	8.9	5	<0.1	5.7	1.8	27	0.50	2	11.3	56.2	20	<0.1	<0.1	<0.1	11	0.02	0.011	115.9
IMA 2445	Rock Pulp	2.0	1.8	9.0	4	<0.1	5.0	1.5	27	0.46	<1	12.4	62.4	23	<0.1	0.1	<0.1	11	0.02	0.009	77.3
IMA 2446	Rock Pulp	1.7	2.6	9.8	3	<0.1	5.5	1.9	38	0.47	1	23.3	121.6	21	<0.1	0.1	0.1	10	0.01	0.017	188.3
IMA 2447	Rock Pulp	1.7	8.2	19.5	15	<0.1	5.7	3.4	78	0.64	5	5.3	28.4	23	<0.1	<0.1	0.1	20	0.18	0.004	42.4
IMA 2448	Rock Pulp	2.3	5.6	47.2	4	<0.1	6.2	3.2	28	0.45	2	40.8	157.3	19	<0.1	0.1	0.2	8	0.03	0.022	186.2
IMA 2449	Rock Pulp	7.4	28.3	144.0	5	0.3	13.9	27.3	28	1.29	15	405.6	1420.2	19	<0.1	0.2	2.1	15	0.06	0.130	1370.2
IMA 2450	Rock Pulp	3.6	5.7	55.9	5	<0.1	6.4	4.5	29	0.49	4	73.0	279.1	22	<0.1	<0.1	0.2	11	0.03	0.027	262.9
IMA 2451	Rock Pulp	2.5	3.5	21.9	6	<0.1	4.5	2.2	27	0.38	2	24.6	95.3	24	<0.1	<0.1	<0.1	8	0.02	0.013	145.7
IMA 2452	Rock Pulp	6.5	7.4	28.8	3	<0.1	5.8	3.9	25	0.51	2	46.8	257.4	20	<0.1	0.1	0.1	13	0.04	0.034	319.0
IMA 2453	Rock Pulp	8.1	7.3	137.0	8	0.2	8.1	9.8	17	0.70	6	279.0	1727.9	28	<0.1	0.2	1.0	14	0.04	0.159	1889.3
IMA 2454	Rock Pulp	3.2	7.3	77.5	3	<0.1	6.9	6.9	27	0.63	4	93.1	426.7	15	<0.1	0.1	0.6	9	0.04	0.042	419.8
IMA 2455	Rock Pulp	5.9	9.1	85.7	8	0.1	7.2	7.1	26	0.63	3	102.9	411.3	16	<0.1	<0.1	0.5	10	0.03	0.041	454.1



CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf		
		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	0.1
IMA 2426	Rock Pulp	105	4.09	74	0.692	6.54	0.173	0.48	0.6	173.7	22	0.9	6.9	6.5	0.5	1	23	53.0	<0.1	15.6	4.4		
IMA 2427	Rock Pulp	202	0.64	699	0.272	6.06	1.671	3.45	0.6	207.5	309	1.6	23.5	16.7	2.0	1	5	16.1	0.1	175.5	6.0		
IMA 2428	Rock Pulp	192	0.66	672	0.261	5.95	1.635	3.40	0.6	198.3	293	1.6	24.5	15.6	1.9	1	5	16.9	0.2	160.1	5.5		
IMA 2429	Rock Pulp	226	0.70	857	0.274	6.42	1.359	3.90	0.8	215.1	324	1.9	24.1	18.0	2.1	1	7	17.6	0.1	166.4	5.8		
IMA 2430	Rock Pulp	215	0.59	730	0.253	5.82	1.543	3.19	0.7	214.9	347	1.7	24.7	17.1	2.1	1	5	17.6	0.1	158.6	6.4		
IMA 2431	Rock Pulp	130	1.00	771	0.350	7.71	3.087	3.02	0.7	286.4	83	2.2	9.0	9.0	0.9	1	12	21.7	<0.1	144.4	8.5		
IMA 2432	Rock Pulp	164	1.05	833	0.370	7.70	2.709	3.23	0.8	351.2	91	2.9	9.9	10.6	1.0	2	13	24.6	<0.1	168.0	10.9		
IMA 2433	Rock Pulp	148	1.28	877	0.388	8.36	1.952	4.13	1.0	297.6	69	3.0	8.2	11.1	1.0	3	13	32.2	<0.1	204.5	9.4		
IMA 2434	Rock Pulp	183	0.67	800	0.257	6.39	1.051	3.60	0.9	198.8	305	2.4	23.3	17.1	2.1	1	7	20.8	<0.1	193.4	6.3		
IMA 2435	Rock Pulp	163	1.22	873	0.362	8.66	1.774	4.68	1.2	204.1	55	3.4	5.7	12.1	1.0	3	11	34.0	<0.1	278.9	6.1		
IMA 2436	Rock Pulp	109	1.24	872	0.339	8.18	1.186	4.44	1.2	122.3	36	3.8	5.5	10.5	1.0	3	10	35.2	<0.1	250.6	3.9		
IMA 2437	Rock Pulp	119	1.41	907	0.393	8.62	0.900	5.22	1.4	140.8	25	4.5	3.6	12.4	1.1	3	11	41.7	<0.1	258.2	4.1		
IMA 2438	Rock Pulp	214	0.28	595	0.093	4.21	1.345	2.63	0.3	119.5	43	0.7	16.6	4.5	0.5	1	2	8.1	<0.1	94.2	3.6		
IMA 2439	Rock Pulp	117	1.04	907	0.294	8.25	1.789	4.35	1.0	118.3	36	2.9	4.0	8.3	0.8	3	10	30.2	<0.1	262.2	3.5		
IMA 2440	Rock Pulp	146	0.20	1062	0.157	5.34	0.062	5.10	1.1	157.1	824	3.1	34.3	16.8	2.1	2	3	9.0	<0.1	280.6	4.8		
IMA 2441	Rock Pulp	162	0.36	221	0.497	4.75	0.197	4.76	1.1	309.8	1079	1.4	53.2	49.3	6.0	1	2	11.9	0.6	191.5	9.2		
IMA 2442	Rock Pulp	120	0.38	1590	0.165	6.51	0.208	5.54	1.0	160.0	217	3.4	13.5	15.0	1.6	2	4	14.3	0.1	229.7	5.0		
IMA 2443	Rock Pulp	114	0.10	953	0.120	5.67	0.111	5.16	0.5	156.0	203	2.4	11.6	8.2	0.9	2	2	3.9	<0.1	225.6	4.5		
IMA 2444	Rock Pulp	124	0.09	842	0.095	5.06	0.062	4.65	0.4	151.0	202	2.4	7.4	6.9	0.7	1	2	4.2	<0.1	207.7	4.5		
IMA 2445	Rock Pulp	100	0.08	965	0.115	5.41	0.107	5.01	0.5	190.4	127	2.5	7.8	8.2	0.8	1	2	5.5	<0.1	235.4	5.9		
IMA 2446	Rock Pulp	131	0.07	783	0.169	4.60	0.068	4.41	0.8	178.4	355	1.8	13.5	14.0	1.6	<1	2	3.3	<0.1	208.6	5.3		
IMA 2447	Rock Pulp	129	0.12	681	0.034	3.23	0.045	3.29	0.9	61.8	71	1.6	3.3	2.8	0.2	<1	2	3.8	0.1	175.2	1.8		
IMA 2448	Rock Pulp	127	0.06	634	0.113	4.77	0.055	4.18	0.4	112.8	321	1.7	15.8	9.8	1.2	1	2	2.4	<0.1	176.6	3.3		
IMA 2449	Rock Pulp	162	0.08	450	0.253	5.14	0.050	3.58	1.1	173.1	>2000	2.7	118.7	39.5	5.4	2	3	6.1	0.9	194.9	4.8		
IMA 2450	Rock Pulp	112	0.07	692	0.140	5.28	0.174	4.38	0.6	132.0	480	2.0	20.8	13.1	1.8	2	2	3.0	<0.1	190.6	3.8		
IMA 2451	Rock Pulp	104	0.04	783	0.080	4.31	0.195	4.52	0.5	101.5	255	1.1	7.0	6.6	0.7	2	1	1.7	<0.1	201.9	3.0		
IMA 2452	Rock Pulp	125	0.07	709	0.230	5.12	0.058	4.38	0.7	211.7	532	2.5	23.6	20.6	2.7	1	3	2.4	<0.1	212.1	6.6		
IMA 2453	Rock Pulp	126	0.06	646	0.338	4.57	0.054	3.99	0.9	261.0	>2000	2.5	118.2	40.8	5.4	2	3	5.4	0.3	194.8	7.4		
IMA 2454	Rock Pulp	130	0.06	423	0.134	4.35	0.055	3.29	0.4	107.5	772	1.7	30.2	16.2	2.2	1	2	2.8	0.2	162.3	3.4		
IMA 2455	Rock Pulp	115	0.07	488	0.140	4.81	0.057	3.57	0.4	120.3	842	1.9	32.8	17.3	2.4	2	2	3.6	0.2	178.2	3.7		



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Project: None Given
Report Date: January 30, 2018

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2426	Rock Pulp	0.08	0.008	<1	<0.5	<0.5
IMA 2427	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA 2428	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2429	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2430	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2431	Rock Pulp	0.06	<0.005	<1	<0.5	0.8
IMA 2432	Rock Pulp	0.07	<0.005	<1	<0.5	1.0
IMA 2433	Rock Pulp	0.08	<0.005	<1	<0.5	1.4
IMA 2434	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2435	Rock Pulp	<0.05	<0.005	<1	<0.5	2.0
IMA 2436	Rock Pulp	0.08	<0.005	<1	<0.5	1.8
IMA 2437	Rock Pulp	0.10	<0.005	<1	<0.5	2.4
IMA 2438	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 2439	Rock Pulp	0.08	<0.005	<1	<0.5	1.8
IMA 2440	Rock Pulp	0.07	<0.005	<1	<0.5	1.3
IMA 2441	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA 2442	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA 2443	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA 2444	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2445	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA 2446	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2447	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2448	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2449	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2450	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2451	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 2452	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 2453	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 2454	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 2455	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA 2456	Rock Pulp	4.0	9.9	109.6	5	0.1	5.7	4.0	28	0.49	2	58.7	283.4	14	<0.1	<0.1	0.3	9	0.04	0.038	343.0
IMA 2457	Rock Pulp	1.6	5.8	51.0	9	<0.1	4.5	2.5	28	0.45	3	22.3	90.4	17	<0.1	<0.1	<0.1	9	0.03	0.016	105.0
IMA 2458	Rock Pulp	3.1	4.7	80.8	6	<0.1	5.2	1.7	34	0.49	2	27.6	122.6	15	<0.1	0.1	0.2	15	0.02	0.014	130.7
IMA 2459	Rock Pulp	7.2	11.9	103.7	13	0.1	8.2	10.1	21	0.74	8	383.0	1628.4	30	<0.1	0.3	0.8	20	0.04	0.171	1724.3



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
IMA 2456	Rock Pulp	109	0.06	480	0.123	4.58	0.056	3.56	0.3	129.2	619	1.6	20.7	12.4	1.7	1	2	3.1	<0.1	166.6	3.5
IMA 2457	Rock Pulp	116	0.07	494	0.090	4.61	0.120	3.72	0.2	106.0	196	1.4	9.3	7.5	0.8	1	2	2.0	<0.1	158.9	3.0
IMA 2458	Rock Pulp	166	0.07	523	0.126	4.89	0.141	3.72	0.2	204.2	227	1.9	11.3	9.2	1.0	2	2	3.2	<0.1	168.9	6.0
IMA 2459	Rock Pulp	134	0.07	618	0.359	4.65	0.046	4.10	0.7	316.6	>2000	2.6	141.5	46.1	5.5	2	4	8.6	0.3	201.4	9.2



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Project: None Given
Report Date: January 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 2456	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2457	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 2458	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA 2459	Rock Pulp	<0.05	<0.005	4	<0.5	0.9



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Project: None Given
Report Date: January 30, 2018

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QUALITY CONTROL REPORT

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
Pulp Duplicates																					
IMA 2277	Rock Pulp	2.1	23.7	51.3	27	<0.1	10.6	6.7	316	1.29	5	13.5	79.2	40	0.1	0.1	0.5	14	0.76	0.010	104.9
REP IMA 2277	QC	2.2	24.3	49.9	25	<0.1	10.1	6.9	316	1.32	5	13.6	76.7	39	0.2	<0.1	0.6	15	0.78	0.010	105.1
IMA 2317	Rock Pulp	0.8	19.7	5.3	24	<0.1	30.0	9.9	215	2.21	<1	2.3	5.6	76	<0.1	<0.1	<0.1	56	0.59	0.019	14.6
REP IMA 2317	QC	1.0	19.6	5.3	26	<0.1	30.3	9.8	219	2.24	<1	2.4	5.8	79	<0.1	<0.1	<0.1	56	0.61	0.018	15.5
IMA 2353	Rock Pulp	2.4	5.3	52.5	4	<0.1	4.5	2.7	32	0.41	2	96.1	352.7	24	<0.1	0.1	<0.1	10	0.02	0.040	350.6
REP IMA 2353	QC	2.6	5.5	55.6	8	<0.1	4.7	2.9	32	0.42	2	102.7	368.2	24	<0.1	0.1	<0.1	11	0.02	0.042	363.2
IMA 2389	Rock Pulp	2.0	10.1	12.3	18	0.1	12.7	9.1	44	1.41	3	16.1	80.6	51	<0.1	<0.1	0.2	16	0.03	0.015	93.6
REP IMA 2389	QC	3.4	9.8	12.3	18	0.1	11.9	9.0	42	1.40	3	18.0	87.7	53	<0.1	<0.1	0.3	17	0.04	0.013	103.0
IMA 2425	Rock Pulp	2.4	32.1	185.4	228	0.2	20.3	13.0	213	3.04	6	59.6	142.7	68	0.9	0.2	0.4	59	0.15	0.041	161.7
REP IMA 2425	QC	2.4	32.9	188.1	229	0.2	19.8	12.5	220	3.03	5	58.7	138.5	68	0.7	0.2	0.4	59	0.14	0.040	173.5
IMA 2457	Rock Pulp	1.6	5.8	51.0	9	<0.1	4.5	2.5	28	0.45	3	22.3	90.4	17	<0.1	<0.1	<0.1	9	0.03	0.016	105.0
REP IMA 2457	QC	1.9	5.2	54.0	6	<0.1	4.5	2.4	30	0.44	3	23.2	92.9	17	<0.1	0.1	<0.1	9	0.03	0.015	110.8
Reference Materials																					
STD OREAS25A-4A	Standard	2.5	33.2	26.4	46	<0.1	46.5	7.8	492	6.71	10	3.0	15.5	46	<0.1	0.7	0.4	159	0.31	0.050	19.5
STD OREAS25A-4A	Standard	2.5	36.3	26.5	44	<0.1	46.2	8.5	493	6.70	10	3.1	14.6	45	<0.1	0.7	0.4	163	0.25	0.056	17.0
STD OREAS25A-4A	Standard	2.0	34.0	25.0	42	<0.1	47.6	7.7	489	6.67	10	2.8	14.4	46	<0.1	0.6	0.3	160	0.30	0.054	22.7
STD OREAS25A-4A	Standard	2.2	31.5	23.2	53	<0.1	41.7	7.3	477	6.75	10	2.5	14.9	49	<0.1	0.5	0.3	162	0.30	0.049	21.7
STD OREAS25A-4A	Standard	2.5	34.8	27.5	41	<0.1	44.0	7.7	498	6.59	10	3.3	15.6	48	<0.1	0.6	0.4	156	0.26	0.057	18.3
STD OREAS25A-4A	Standard	2.3	29.6	24.5	37	<0.1	43.9	7.5	449	6.27	9	2.7	14.2	41	<0.1	0.6	0.3	160	0.25	0.046	18.6
STD OREAS25A-4A	Standard	2.4	32.5	25.4	39	<0.1	47.6	7.9	487	6.96	10	2.9	14.4	42	<0.1	0.7	0.3	164	0.27	0.045	19.3
STD OREAS25A-4A	Standard	2.4	37.5	26.6	44	<0.1	46.5	8.2	485	6.66	11	3.0	16.6	47	<0.1	0.6	0.4	163	0.28	0.056	20.2
STD OREAS45E	Standard	2.4	780.0	19.1	49	0.3	465.1	62.3	585	24.68	16	2.5	12.3	16	<0.1	1.0	0.3	327	0.07	0.035	8.3
STD OREAS45E	Standard	2.3	807.8	19.6	48	0.3	498.0	61.9	582	24.76	18	2.7	12.1	17	<0.1	1.2	0.3	336	0.07	0.040	5.6
STD OREAS45E	Standard	2.1	801.4	19.0	46	0.3	504.7	59.1	558	24.38	17	2.5	12.7	16	<0.1	1.0	0.3	336	0.07	0.035	12.2
STD OREAS45E	Standard	2.5	817.8	18.8	58	0.4	489.7	58.6	591	25.63	19	2.4	13.3	18	0.1	1.2	0.3	339	0.08	0.040	11.4
STD OREAS45E	Standard	2.3	790.6	21.0	49	0.3	489.1	63.8	599	26.29	18	2.8	13.9	19	<0.1	1.2	0.3	341	0.07	0.038	8.8
STD OREAS45E	Standard	2.0	739.0	16.7	42	0.3	459.9	54.0	514	22.99	14	2.2	11.4	14	<0.1	0.9	0.2	312	0.06	0.033	10.1
STD OREAS45E	Standard	2.4	780.1	19.6	45	0.3	468.3	60.8	550	24.83	18	2.7	14.3	17	<0.1	1.1	0.3	326	0.07	0.039	10.8



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Project: None Given
Report Date: January 30, 2018

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QUALITY CONTROL REPORT

VAN18000051.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
Pulp Duplicates																					
IMA 2277	Rock Pulp	395	0.22	307	0.046	1.55	0.026	1.60	0.4	52.9	179	0.7	8.7	4.3	0.3	<1	2	1.9	0.2	76.5	1.4
REP IMA 2277	QC	367	0.22	306	0.048	1.60	0.025	1.60	0.5	56.8	181	0.8	8.8	4.5	0.3	<1	2	1.8	0.2	75.9	1.6
IMA 2317	Rock Pulp	150	1.32	395	0.096	6.61	2.673	2.18	0.6	70.1	30	2.3	4.0	2.2	0.2	2	6	18.2	<0.1	111.8	1.9
REP IMA 2317	QC	146	1.33	410	0.099	6.81	2.749	2.18	0.6	75.7	31	2.4	4.1	2.4	0.2	2	6	17.1	<0.1	113.2	2.1
IMA 2353	Rock Pulp	146	0.06	576	0.138	4.52	0.232	3.24	0.8	114.4	615	1.5	27.5	12.0	1.4	1	2	2.5	<0.1	152.8	3.3
REP IMA 2353	QC	147	0.05	614	0.139	4.43	0.227	2.96	0.8	119.6	659	1.6	29.0	12.3	1.4	1	2	2.7	<0.1	150.9	3.5
IMA 2389	Rock Pulp	162	0.36	1350	0.203	5.63	0.094	6.26	0.5	136.5	166	1.3	10.7	16.8	1.7	1	3	15.4	<0.1	193.2	3.5
REP IMA 2389	QC	156	0.36	1352	0.198	5.78	0.089	6.21	0.5	127.4	181	1.4	11.3	16.9	1.7	1	3	13.9	<0.1	200.7	3.3
IMA 2425	Rock Pulp	173	0.68	753	0.301	6.70	1.762	3.75	0.8	213.0	330	2.5	24.1	18.2	2.3	<1	7	17.9	0.1	206.9	6.2
REP IMA 2425	QC	172	0.68	739	0.304	6.75	1.771	3.66	0.8	222.8	326	2.2	25.7	18.9	2.3	1	6	18.2	0.1	203.7	6.5
IMA 2457	Rock Pulp	116	0.07	494	0.090	4.61	0.120	3.72	0.2	106.0	196	1.4	9.3	7.5	0.8	1	2	2.0	<0.1	158.9	3.0
REP IMA 2457	QC	115	0.07	518	0.087	4.48	0.118	3.68	0.2	103.4	206	1.4	9.3	7.2	0.8	1	1	2.5	<0.1	161.9	3.0
Reference Materials																					
STD OREAS25A-4A	Standard	116	0.29	148	0.978	9.32	0.142	0.49	2.0	165.1	44	4.1	10.0	21.2	1.5	<1	12	41.0	<0.1	54.3	4.6
STD OREAS25A-4A	Standard	124	0.33	154	0.952	8.45	0.138	0.50	2.0	157.6	40	4.6	8.8	20.1	1.5	<1	12	38.3	<0.1	49.9	4.2
STD OREAS25A-4A	Standard	117	0.32	155	0.975	9.46	0.147	0.55	2.0	159.6	49	4.1	9.9	19.5	1.5	<1	13	40.2	<0.1	59.6	4.3
STD OREAS25A-4A	Standard	101	0.34	153	0.933	9.43	0.118	0.54	1.9	147.4	49	3.9	10.7	19.0	1.4	<1	14	35.6	<0.1	61.2	4.0
STD OREAS25A-4A	Standard	121	0.33	155	0.926	8.66	0.139	0.53	2.0	150.9	41	4.4	9.3	19.7	1.5	<1	12	39.6	<0.1	51.6	4.2
STD OREAS25A-4A	Standard	111	0.30	146	0.916	8.72	0.127	0.51	1.8	150.9	40	3.9	8.9	18.2	1.4	<1	11	35.0	<0.1	52.0	4.0
STD OREAS25A-4A	Standard	122	0.33	153	0.945	9.06	0.115	0.46	1.7	158.2	40	4.1	8.9	18.8	1.5	<1	11	36.1	<0.1	53.6	4.1
STD OREAS25A-4A	Standard	110	0.32	154	0.952	8.67	0.148	0.50	1.8	150.4	45	4.2	9.7	20.1	1.4	<1	12	41.8	<0.1	61.1	4.0
STD OREAS45E	Standard	1024	0.14	251	0.541	6.98	0.061	0.33	1.2	105.6	20	1.3	7.0	6.7	0.5	<1	86	7.0	<0.1	18.7	3.1
STD OREAS45E	Standard	994	0.16	270	0.541	6.93	0.056	0.36	1.0	100.0	20	1.6	6.4	6.3	0.5	<1	95	6.4	<0.1	20.2	2.9
STD OREAS45E	Standard	1084	0.15	288	0.557	7.11	0.056	0.36	0.9	107.2	25	1.5	7.4	6.2	0.6	<1	95	7.0	<0.1	23.0	3.3
STD OREAS45E	Standard	967	0.18	280	0.552	7.24	0.059	0.40	0.9	102.1	26	1.5	8.7	6.5	0.6	1	104	7.2	<0.1	23.3	3.0
STD OREAS45E	Standard	1071	0.18	288	0.549	6.96	0.061	0.38	1.0	102.3	20	1.7	6.9	6.5	0.6	<1	100	7.7	<0.1	22.4	3.0
STD OREAS45E	Standard	1011	0.16	238	0.509	6.67	0.058	0.37	1.0	92.0	22	1.2	7.2	5.9	0.5	<1	90	7.5	<0.1	19.9	2.5
STD OREAS45E	Standard	931	0.16	272	0.530	6.80	0.065	0.35	1.0	95.8	24	1.5	7.8	6.2	0.5	<1	94	7.1	<0.1	23.4	2.9



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Project: None Given
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QUALITY CONTROL REPORT

VAN18000051.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
Pulp Duplicates						
IMA 2277	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA 2277	QC	<0.05	<0.005	<1	<0.5	<0.5
IMA 2317	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
REP IMA 2317	QC	<0.05	<0.005	<1	<0.5	0.6
IMA 2353	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
REP IMA 2353	QC	<0.05	<0.005	<1	<0.5	0.9
IMA 2389	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
REP IMA 2389	QC	<0.05	<0.005	<1	<0.5	1.1
IMA 2425	Rock Pulp	0.05	<0.005	<1	<0.5	1.3
REP IMA 2425	QC	<0.05	<0.005	<1	<0.5	1.3
IMA 2457	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
REP IMA 2457	QC	<0.05	<0.005	<1	<0.5	0.7
Reference Materials						
STD OREAS25A-4A	Standard	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.06	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.08	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.05	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.15	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.11	<0.005	3	<0.5	<0.5



Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

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Part: 1 of 3

QUALITY CONTROL REPORT

VAN18000051.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
STD OREAS25A-4A Expected		2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283	0.0495	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	0.5	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.4	0.2	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.3	0.4	2	<0.1	0.1	<0.2	3	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	<0.1	0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.2	0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	0.5	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	



QUALITY CONTROL REPORT

VAN18000051.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
STD OREAS25A-4A Expected		120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047	61	4.28
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.3	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	0.3	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.4	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.5	<0.1



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: January 30, 2018

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Part: 3 of 3

QUALITY CONTROL REPORT

VAN18000051.1

		MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm
		0.05	0.005	1	0.5	0.5
STD OREAS25A-4A Expected		0.09		2.5		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.09
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: March 05, 2018
Report Date: March 12, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN18000488.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 109

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	109	Sorting, labeling and boxing samples received as pulps			VAN
MA200	109	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 12, 2018

Page: 2 of 5

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18000488.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.001	0.1	
IMA2460	Pulp	3.2	23.3	53.3	51	<0.1	30.8	10.4	100	1.66	10	30.9	124.6	26	<0.1	<0.1	0.3	57	0.13	0.031	151.9
IMA2461	Pulp	1.6	46.3	32.3	34	<0.1	42.3	17.1	127	2.24	14	19.0	93.3	21	0.1	0.1	0.4	73	0.10	0.028	121.7
IMA2462	Pulp	2.4	76.5	54.4	54	0.1	70.1	26.1	230	3.91	24	14.9	50.9	22	<0.1	0.3	0.4	141	0.10	0.045	73.9
IMA2463	Pulp	0.3	15.0	6.8	2	<0.1	7.2	3.2	40	0.74	3	2.9	16.2	32	<0.1	0.2	<0.1	8	0.16	0.003	22.2
IMA2464	Pulp	4.7	23.5	35.0	5	0.2	6.9	11.5	49	0.72	6	106.5	501.9	25	<0.1	0.2	0.3	12	0.16	0.058	574.4
IMA2465	Pulp	1.5	33.8	4.6	3	<0.1	6.4	1.8	40	0.40	2	3.5	10.6	18	<0.1	<0.1	0.7	8	0.06	0.013	14.5
IMA2466	Pulp	1.9	59.8	91.6	166	0.3	52.3	24.2	214	3.04	20	4.7	11.6	82	1.0	0.1	0.4	61	0.21	0.034	23.9
IMA2467	Pulp	2.1	139.1	12.1	39	0.2	120.1	44.8	292	5.42	31	5.1	12.1	15	<0.1	0.5	0.7	201	0.09	0.058	28.0
IMA2468	Pulp	2.3	105.8	10.5	59	0.1	107.4	56.6	467	7.12	41	4.7	11.0	15	<0.1	0.4	0.5	223	0.13	0.070	25.0
IMA2469	Pulp	9.3	56.2	344.1	2	0.2	24.4	39.4	149	2.23	16	451.3	2123.1	50	<0.1	0.4	1.6	18	0.29	0.209	>2000
IMA2470	Pulp	4.8	84.8	269.5	286	0.2	8.1	6.5	69	0.74	4	90.7	449.1	27	1.5	0.2	0.4	10	0.12	0.052	478.2
IMA2471	Pulp	8.2	64.2	78.1	1334	0.5	26.8	47.0	85	1.39	51	282.7	1843.0	37	8.6	0.4	2.1	17	0.24	0.183	1913.0
IMA2472	Pulp	4.8	25.0	8.8	5	0.1	8.9	4.4	62	0.59	4	6.4	32.8	20	<0.1	0.2	0.2	4	0.13	0.006	40.5
IMA2473	Pulp	8.0	19.0	35.1	36	0.1	10.7	12.7	70	0.87	13	135.4	891.2	27	0.2	0.3	0.7	12	0.13	0.096	1014.8
IMA2474	Pulp	6.7	22.6	477.0	67	0.2	12.6	18.7	72	1.08	11	338.2	1331.4	24	0.3	0.2	1.5	13	0.11	0.143	1487.1
IMA2475	Pulp	5.9	32.3	328.5	70	0.3	12.1	27.2	31	0.90	15	402.4	1890.2	27	0.2	0.2	1.3	10	0.07	0.196	>2000
IMA2476	Pulp	3.0	7.5	157.1	49	<0.1	5.5	7.7	32	0.49	6	77.4	507.5	26	<0.1	<0.1	0.6	8	0.11	0.057	611.6
IMA2477	Pulp	5.2	18.0	205.9	235	<0.1	10.6	14.9	75	0.89	6	119.7	795.1	28	1.3	0.1	0.4	10	0.09	0.083	876.1
IMA2478	Pulp	6.4	26.2	267.9	311	0.2	11.1	42.2	27	0.73	16	266.5	910.3	27	1.8	0.2	1.1	11	0.08	0.107	1047.9
IMA2479	Pulp	23.6	90.6	3720.4	373	2.7	17.8	95.3	43	1.86	97	3085.5	>4000	47	2.1	0.8	13.4	16	0.10	0.528	>2000
IMA2480	Pulp	20.6	68.7	335.8	161	0.8	18.1	59.8	80	1.46	52	1141.7	2291.2	30	0.9	0.2	4.3	16	0.15	0.207	>2000
IMA2481	Pulp	7.0	30.5	235.0	241	0.4	9.9	35.5	52	0.74	35	95.0	516.0	29	1.3	<0.1	0.6	10	0.10	0.061	612.6
IMA2482	Pulp	3.3	15.8	188.5	446	0.2	7.3	7.6	75	0.68	6	99.4	698.2	23	2.9	<0.1	0.1	19	0.15	0.076	908.8
IMA2483	Pulp	6.5	24.5	540.1	572	0.5	16.5	21.7	133	1.46	16	529.4	2781.8	39	3.9	0.1	0.4	23	0.34	0.234	>2000
IMA2484	Pulp	1.8	9.0	17.2	17	0.1	6.5	3.9	127	0.73	3	8.7	41.9	22	<0.1	<0.1	<0.1	7	0.18	0.008	51.4
IMA2485	Pulp	2.4	8.2	23.8	63	<0.1	7.0	5.2	69	0.76	3	59.9	339.8	26	0.3	<0.1	0.2	10	0.11	0.038	431.7
IMA2486	Pulp	3.6	10.3	45.3	256	0.1	11.6	5.7	66	0.92	3	16.4	84.0	22	1.9	<0.1	<0.1	8	0.03	0.014	107.2
IMA2487	Pulp	2.1	101.7	148.1	367	0.3	96.5	36.3	215	4.57	27	4.5	11.0	31	1.9	0.5	0.2	177	0.13	0.041	31.1
IMA2488	Pulp	1.6	58.3	86.6	322	0.3	81.6	27.3	233	4.43	20	3.6	8.7	37	0.9	0.3	0.5	146	0.12	0.040	26.0
IMA2489	Pulp	2.3	57.6	98.9	177	0.4	77.5	23.9	301	4.47	17	3.8	9.9	61	0.6	0.2	0.4	126	0.22	0.042	29.0



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Project: None Given
Report Date: March 12, 2018

Page: 2 of 5

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200			
				Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA2460	Pulp	103	0.51	532	0.136	7.16	0.261	5.01	0.9	123.1	275	1.9	13.7	6.2	0.6	2	8	8.7	0.1	234.2	3.9			
IMA2461	Pulp	120	0.52	637	0.217	6.17	0.129	4.64	1.7	116.5	229	2.2	13.5	7.9	0.8	2	9	14.3	0.3	246.1	3.6			
IMA2462	Pulp	192	0.94	598	0.390	9.35	0.155	5.60	2.4	145.0	150	3.1	13.1	8.8	0.9	4	18	24.8	0.4	304.5	4.3			
IMA2463	Pulp	65	0.13	1054	0.036	4.18	0.084	5.31	0.4	52.9	42	0.5	2.7	2.8	0.2	<1	1	1.9	<0.1	193.4	1.7			
IMA2464	Pulp	69	0.23	914	0.184	4.75	0.067	5.15	1.1	152.4	1081	2.4	43.6	17.6	2.0	2	3	7.0	0.1	263.7	4.2			
IMA2465	Pulp	111	0.04	347	0.019	1.50	0.031	1.94	0.4	51.0	29	0.2	1.9	1.7	0.1	<1	<1	0.5	<0.1	72.9	1.4			
IMA2466	Pulp	183	0.94	140	0.231	5.29	3.301	0.58	0.8	190.6	49	0.8	6.3	4.6	0.4	<1	8	15.2	0.2	31.3	5.3			
IMA2467	Pulp	177	1.15	616	0.522	10.20	0.063	5.92	2.8	152.8	63	3.2	9.1	12.1	1.1	6	24	33.9	0.7	336.1	4.6			
IMA2468	Pulp	177	1.48	539	0.646	9.72	0.054	5.41	2.8	174.0	60	3.9	10.0	11.3	0.9	5	25	35.0	0.7	289.9	4.6			
IMA2469	Pulp	279	0.16	425	0.308	3.16	0.072	4.08	1.4	181.6	>2000	1.5	144.3	52.0	6.4	2	4	5.5	0.8	167.5	5.2			
IMA2470	Pulp	141	0.13	1294	0.273	3.49	0.058	5.15	0.7	117.5	885	1.6	40.4	29.1	3.9	1	2	4.4	0.2	243.4	3.5			
IMA2471	Pulp	309	0.18	687	0.462	3.72	0.047	4.00	1.4	304.8	>2000	2.2	142.3	50.6	6.2	<1	4	7.9	0.4	178.8	8.8			
IMA2472	Pulp	264	0.02	741	0.043	3.16	0.056	4.43	0.4	99.3	84	0.5	4.4	4.2	0.4	<1	<1	0.6	<0.1	163.9	2.9			
IMA2473	Pulp	225	0.15	770	0.371	3.45	0.050	4.23	1.2	249.1	1818	1.8	69.7	37.2	4.4	<1	3	5.0	0.1	192.8	7.3			
IMA2474	Pulp	357	0.17	688	0.243	3.87	0.047	3.96	1.2	142.5	>2000	3.2	115.2	32.9	3.8	2	3	8.0	0.2	168.8	4.0			
IMA2475	Pulp	142	0.08	706	0.294	3.11	0.049	3.82	1.2	161.2	>2000	2.0	138.9	41.0	4.7	1	2	5.3	0.4	148.8	4.6			
IMA2476	Pulp	102	0.09	902	0.251	3.81	0.061	4.39	0.8	137.7	1151	1.9	42.4	24.7	2.6	1	2	3.8	<0.1	176.2	4.0			
IMA2477	Pulp	292	0.11	872	0.258	3.75	0.066	4.97	0.6	144.5	1612	2.0	57.8	28.0	3.0	2	2	4.2	0.2	196.8	4.5			
IMA2478	Pulp	112	0.11	786	0.415	3.67	0.058	4.64	1.0	178.0	1888	2.4	87.3	44.2	5.2	<1	2	5.1	0.3	189.6	4.5			
IMA2479	Pulp	349	0.07	349	0.445	2.11	0.026	1.97	3.3	63.4	>2000	5.4	531.3	57.2	1.6	2	4	10.9	1.1	100.3	<0.1			
IMA2480	Pulp	302	0.17	720	0.404	3.81	0.050	3.90	1.9	256.4	>2000	3.8	222.9	51.5	6.1	2	4	10.1	0.6	194.2	7.2			
IMA2481	Pulp	140	0.17	1119	0.200	4.74	0.079	3.44	1.4	177.0	1132	3.3	41.2	20.8	2.6	2	3	10.3	0.1	181.9	5.4			
IMA2482	Pulp	189	0.15	739	0.289	3.44	0.043	3.35	3.0	183.3	1548	2.0	60.2	28.2	3.7	1	2	4.0	0.1	180.8	5.4			
IMA2483	Pulp	477	0.26	738	0.536	3.88	0.040	3.00	1.9	295.6	>2000	3.3	248.2	32.4	0.7	3	5	11.1	0.1	199.4	8.5			
IMA2484	Pulp	210	0.13	854	0.084	3.54	0.049	3.20	0.8	100.2	95	1.1	5.6	7.0	0.7	<1	1	2.3	0.1	170.8	3.2			
IMA2485	Pulp	246	0.13	879	0.235	3.69	0.051	3.33	0.6	183.5	758	1.4	30.4	22.0	2.5	<1	2	3.1	<0.1	183.5	5.3			
IMA2486	Pulp	465	0.07	845	0.187	3.45	0.046	3.09	0.6	153.5	180	1.1	9.6	15.0	1.6	<1	<1	1.9	<0.1	183.8	4.3			
IMA2487	Pulp	227	1.40	582	0.350	9.28	0.526	3.18	2.8	156.9	68	2.8	8.9	8.9	0.7	3	23	34.6	0.3	198.7	4.4			
IMA2488	Pulp	194	1.42	447	0.315	8.06	1.072	3.43	1.8	134.8	53	2.4	7.9	6.9	0.6	2	17	34.8	0.2	206.5	3.6			
IMA2489	Pulp	332	1.54	432	0.283	7.85	1.936	2.76	1.5	145.2	58	2.1	7.8	6.0	0.5	2	16	31.1	0.1	172.5	4.3			



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: March 12, 2018

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA2460	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2461	Pulp	0.12	0.013	<1	<0.5	1.2
IMA2462	Pulp	0.09	0.011	<1	0.6	1.6
IMA2463	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2464	Pulp	<0.05	0.005	<1	<0.5	1.1
IMA2465	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2466	Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA2467	Pulp	0.12	0.011	2	0.5	1.8
IMA2468	Pulp	0.18	0.009	2	<0.5	1.7
IMA2469	Pulp	<0.05	0.006	<1	<0.5	0.9
IMA2470	Pulp	0.06	<0.005	<1	<0.5	1.4
IMA2471	Pulp	0.06	<0.005	<1	<0.5	0.9
IMA2472	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2473	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2474	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2475	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2476	Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2477	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2478	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2479	Pulp	0.05	<0.005	<1	<0.5	0.9
IMA2480	Pulp	0.08	<0.005	<1	<0.5	1.1
IMA2481	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2482	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2483	Pulp	<0.05	<0.005	<1	0.9	1.2
IMA2484	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2485	Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2486	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2487	Pulp	0.08	<0.005	<1	<0.5	1.7
IMA2488	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2489	Pulp	0.05	<0.005	<1	<0.5	0.9



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	1	0.01	0.001	0.1	
IMA2490	Pulp	2.5	56.2	118.6	186	0.3	82.2	27.6	293	4.70	21	3.8	9.9	57	0.6	0.3	0.2	145	0.14	0.041	30.8
IMA2491	Pulp	1.9	47.9	148.3	381	0.3	47.8	17.6	309	3.92	8	3.2	8.5	74	1.4	0.1	0.4	82	0.23	0.035	24.3
IMA2492	Pulp	2.4	64.0	485.2	757	0.5	58.1	21.2	297	4.21	12	4.0	9.6	75	3.6	0.2	0.4	95	0.18	0.040	24.4
IMA2493	Pulp	2.1	39.4	150.2	113	0.3	41.7	16.8	251	3.09	10	3.4	8.7	84	<0.1	<0.1	0.6	62	0.31	0.034	14.2
IMA2494	Pulp	2.1	49.7	145.6	321	0.3	87.8	31.5	328	4.84	22	3.6	8.9	61	1.3	0.2	0.5	133	0.16	0.046	28.0
IMA2495	Pulp	3.4	43.2	118.9	810	0.3	72.4	21.5	393	5.34	4	3.0	8.4	73	6.0	0.2	0.3	135	0.15	0.044	27.6
IMA2496	Pulp	2.2	50.3	416.1	864	0.5	58.0	18.5	277	3.52	9	3.6	8.9	70	4.5	0.1	0.3	85	0.28	0.037	25.6
IMA2497	Pulp	1.9	61.3	283.2	434	0.4	60.3	20.5	229	3.33	10	5.3	12.2	75	2.1	0.2	0.5	84	0.29	0.034	31.2
IMA2498	Pulp	2.2	58.8	240.1	450	0.4	65.3	19.8	232	4.01	18	3.9	8.5	67	2.2	0.1	0.3	93	0.14	0.040	23.3
IMA2499	Pulp	2.2	68.3	490.1	676	0.5	74.2	23.2	240	4.50	24	3.9	9.6	46	3.6	<0.1	0.8	108	0.11	0.039	24.1
IMA2500	Pulp	2.1	92.6	11.4	52	0.1	101.6	36.1	254	4.58	30	4.7	9.6	14	<0.1	0.4	0.5	200	0.08	0.050	21.6
IMA2501	Pulp	1.5	137.3	181.6	251	0.9	34.9	23.3	622	7.05	7	31.1	76.9	47	0.4	0.1	1.1	161	0.47	0.054	98.8
IMA2502	Pulp	0.3	194.9	139.5	275	1.1	71.6	46.0	1069	13.78	15	4.9	10.5	26	0.6	<0.1	1.5	336	0.27	0.102	22.8
IMA2503	Pulp	1.8	123.4	223.9	489	0.4	64.2	37.5	576	8.26	13	15.3	35.0	18	2.1	0.1	0.5	209	0.16	0.071	41.7
IMA2504	Pulp	2.2	111.7	58.4	198	0.2	54.4	31.2	415	7.27	5	23.1	54.3	20	0.6	<0.1	0.3	168	0.11	0.056	66.3
IMA2505	Pulp	2.5	117.0	107.8	96	0.5	34.4	22.4	480	6.26	6	36.1	93.1	49	<0.1	0.1	0.4	133	0.44	0.052	116.3
IMA2506	Pulp	0.5	157.3	116.8	209	0.9	76.2	47.7	1127	14.27	16	5.2	9.7	25	0.1	0.3	0.8	358	0.39	0.103	15.3
IMA2507	Pulp	2.4	456.8	331.2	279	1.3	19.6	16.7	185	2.88	7	42.2	98.7	43	1.6	0.3	0.8	49	0.14	0.044	125.9
IMA2508	Pulp	3.9	140.2	17.4	13	0.2	28.5	29.7	412	2.44	35	44.9	124.3	44	<0.1	0.2	0.7	85	0.77	0.046	161.4
IMA2509	Pulp	4.3	200.3	19.6	9	0.1	22.2	15.9	180	1.75	12	3.5	9.5	18	<0.1	0.1	1.8	21	0.23	0.005	14.5
IMA2510	Pulp	3.6	37.2	9.1	3	<0.1	19.2	10.4	62	0.92	11	2.0	5.7	20	<0.1	<0.1	0.3	16	0.04	0.002	9.3
IMA2511	Pulp	3.3	28.0	24.4	8	<0.1	18.1	7.0	113	1.35	7	11.9	67.1	39	<0.1	0.1	0.7	17	0.34	0.012	77.7
IMA2512	Pulp	3.3	33.7	14.4	12	<0.1	18.6	7.2	102	1.16	7	4.6	22.0	36	<0.1	<0.1	0.1	18	0.20	0.008	79.2
IMA2513	Pulp	4.3	6.3	13.7	3	<0.1	15.2	7.7	67	1.10	13	12.8	55.7	40	<0.1	<0.1	0.1	16	0.16	0.009	98.6
IMA2514	Pulp	2.4	16.9	19.9	5	0.2	9.2	4.4	53	0.67	3	41.3	241.0	21	<0.1	<0.1	0.5	10	0.09	0.033	430.1
IMA2515	Pulp	3.5	51.7	128.4	158	0.2	34.5	13.0	160	2.26	4	4.5	11.0	41	0.5	0.1	0.3	16	0.10	0.009	21.9
IMA2516	Pulp	8.1	31.0	37.9	4	0.2	13.9	13.9	77	1.12	8	106.0	592.1	25	<0.1	<0.1	0.4	12	0.13	0.074	699.2
IMA2517	Pulp	7.0	24.1	418.3	237	0.4	15.0	57.6	58	1.01	74	268.5	1001.0	15	1.4	0.3	1.9	13	0.03	0.106	1156.1
IMA2518	Pulp	6.9	239.8	217.9	8	0.8	11.7	13.2	143	1.92	25	116.8	534.6	34	<0.1	0.4	2.0	10	0.22	0.075	684.1
IMA2519	Pulp	5.0	6.4	52.0	12	0.1	4.3	2.5	35	0.68	<1	74.2	359.0	14	<0.1	<0.1	0.4	11	0.03	0.045	375.5



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Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
IMA2490	Pulp	220	1.78	512	0.260	7.64	1.858	2.42	1.8	156.8	62	2.5	7.1	5.9	0.5	3	17	39.5	0.1	164.6	4.9
IMA2491	Pulp	207	1.37	177	0.164	6.36	2.840	1.20	0.8	140.6	51	1.4	5.7	3.4	0.3	1	11	24.7	0.1	67.2	4.3
IMA2492	Pulp	294	1.42	247	0.205	6.63	2.788	1.71	1.0	166.3	52	1.8	7.3	4.1	0.4	2	12	28.8	0.1	97.3	4.8
IMA2493	Pulp	255	0.92	86	0.151	5.56	3.345	0.59	0.5	152.3	31	0.8	4.9	3.2	0.3	<1	7	19.5	0.1	32.1	4.4
IMA2494	Pulp	277	1.74	351	0.217	7.16	2.138	2.46	1.3	149.5	59	2.2	6.9	4.1	0.4	3	15	36.8	0.1	142.1	4.5
IMA2495	Pulp	304	1.86	249	0.199	7.44	2.956	1.68	0.8	139.5	60	2.1	6.3	3.9	0.3	2	17	36.9	0.2	83.1	4.2
IMA2496	Pulp	248	1.28	258	0.222	5.90	2.700	1.41	1.0	151.5	50	1.5	7.2	4.6	0.4	1	10	22.3	0.2	84.6	4.2
IMA2497	Pulp	321	1.11	256	0.253	5.99	2.974	1.34	1.0	174.9	58	1.5	7.2	5.2	0.5	<1	12	20.5	0.2	77.9	5.3
IMA2498	Pulp	327	1.29	331	0.290	6.47	2.513	1.91	1.0	150.6	49	1.7	6.5	6.6	0.6	1	11	25.0	0.1	111.0	4.3
IMA2499	Pulp	256	1.33	358	0.319	6.55	1.682	2.60	1.6	146.0	49	1.7	7.4	7.9	0.7	2	12	30.8	<0.1	169.9	4.2
IMA2500	Pulp	205	0.98	621	0.544	10.05	0.055	4.09	3.2	158.9	51	3.6	7.4	13.0	1.2	5	23	33.7	0.5	235.3	4.6
IMA2501	Pulp	194	2.08	110	0.469	6.31	2.061	0.92	0.5	161.9	177	1.0	16.3	11.2	1.2	1	18	29.9	<0.1	66.0	4.8
IMA2502	Pulp	118	3.82	73	0.902	8.66	1.234	0.66	0.7	174.4	46	0.7	11.5	7.5	0.6	<1	39	52.6	<0.1	33.8	5.1
IMA2503	Pulp	210	1.93	295	0.590	7.43	0.563	2.71	1.8	156.0	88	2.0	13.0	11.2	1.1	3	22	31.3	0.4	131.5	4.6
IMA2504	Pulp	282	1.62	371	0.509	7.54	0.529	2.85	1.9	171.9	130	2.3	15.9	12.7	1.3	2	19	30.2	0.4	161.2	5.1
IMA2505	Pulp	330	1.38	215	0.451	6.19	1.866	1.41	0.9	163.3	230	1.1	19.8	12.8	1.4	1	14	20.8	0.2	90.0	4.6
IMA2506	Pulp	150	3.40	164	1.081	8.44	0.980	1.43	1.0	195.1	34	1.2	11.8	8.8	0.7	2	39	53.1	0.1	41.3	5.4
IMA2507	Pulp	192	0.60	372	0.268	5.05	1.632	2.02	1.1	194.4	223	1.5	19.3	13.8	1.6	1	6	15.9	0.3	134.0	5.4
IMA2508	Pulp	322	0.73	866	0.223	7.50	1.035	2.95	1.3	199.4	316	3.6	23.9	15.5	1.5	4	12	25.4	0.1	211.3	6.1
IMA2509	Pulp	597	0.29	652	0.036	3.57	0.042	3.06	0.7	47.4	26	1.1	2.9	2.6	0.2	<1	2	10.8	0.2	153.1	1.3
IMA2510	Pulp	444	0.06	633	0.013	2.42	0.043	3.06	1.3	36.6	17	0.6	1.3	1.3	0.1	<1	<1	1.5	0.1	121.7	1.1
IMA2511	Pulp	332	0.29	1333	0.135	5.06	0.058	3.33	0.7	129.9	132	1.9	9.2	13.2	1.4	1	3	11.6	<0.1	167.7	3.8
IMA2512	Pulp	358	0.22	1277	0.072	4.84	0.067	3.54	1.0	81.3	139	1.5	4.8	5.8	0.5	2	2	7.1	<0.1	191.3	2.3
IMA2513	Pulp	324	0.16	1599	0.091	5.40	0.158	3.92	1.1	131.6	163	1.2	6.9	7.6	0.7	<1	2	6.0	0.2	203.7	3.8
IMA2514	Pulp	344	0.09	1014	0.174	4.12	0.058	3.68	1.0	156.2	746	1.6	23.9	17.0	2.0	1	2	3.5	<0.1	182.8	4.6
IMA2515	Pulp	673	0.62	17	0.039	2.97	1.879	0.18	0.3	68.2	42	0.5	2.9	1.7	0.2	<1	2	10.5	0.2	7.2	2.1
IMA2516	Pulp	505	0.20	993	0.250	4.51	0.062	2.85	1.4	186.4	1312	3.3	50.3	27.0	3.4	2	2	8.8	0.1	183.4	5.4
IMA2517	Pulp	355	0.18	383	0.294	3.82	0.080	3.01	0.9	205.7	1932	5.7	94.2	31.4	3.8	3	3	10.2	0.1	189.6	5.9
IMA2518	Pulp	494	0.71	603	0.236	2.59	0.036	2.65	1.0	122.3	1207	1.4	49.2	24.3	1.8	<1	2	14.2	0.2	110.5	3.4
IMA2519	Pulp	129	0.21	415	0.283	4.19	0.038	3.35	0.5	213.6	663	3.1	36.0	21.3	2.1	3	2	6.2	<0.1	181.6	6.2



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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA2490	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2491	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2492	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2493	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2494	Pulp	0.06	<0.005	<1	<0.5	0.9
IMA2495	Pulp	0.14	<0.005	<1	<0.5	<0.5
IMA2496	Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2497	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2498	Pulp	<0.05	<0.005	1	<0.5	0.6
IMA2499	Pulp	0.07	<0.005	<1	<0.5	0.9
IMA2500	Pulp	0.06	0.011	1	<0.5	2.2
IMA2501	Pulp	0.06	<0.005	1	0.6	0.5
IMA2502	Pulp	<0.05	0.007	2	0.8	<0.5
IMA2503	Pulp	0.06	0.008	2	<0.5	1.0
IMA2504	Pulp	0.07	<0.005	2	<0.5	1.1
IMA2505	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2506	Pulp	0.07	<0.005	1	<0.5	0.6
IMA2507	Pulp	0.09	<0.005	1	<0.5	0.9
IMA2508	Pulp	<0.05	<0.005	<1	<0.5	1.5
IMA2509	Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2510	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2511	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2512	Pulp	<0.05	<0.005	<1	<0.5	1.5
IMA2513	Pulp	<0.05	<0.005	<1	<0.5	1.7
IMA2514	Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2515	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2516	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2517	Pulp	0.07	<0.005	1	<0.5	0.9
IMA2518	Pulp	<0.05	<0.005	4	<0.5	0.9
IMA2519	Pulp	<0.05	<0.005	<1	<0.5	1.0



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA2520	Pulp	8.4	136.3	135.3	471	0.4	8.5	11.7	82	1.05	5	159.6	520.1	22	3.9	0.2	0.8	16	0.36	0.061	509.2
IMA2521	Pulp	9.8	22.4	541.4	391	0.2	11.9	14.5	90	1.92	6	343.2	1437.0	20	2.6	0.3	0.7	18	0.14	0.174	1454.4
IMA2522	Pulp	3.2	5.6	4.3	3	<0.1	11.6	1.6	62	0.74	<1	2.0	7.9	36	<0.1	<0.1	<0.1	6	<0.01	0.004	11.6
IMA2523	Pulp	13.8	37.1	349.0	89	0.3	10.2	20.8	124	2.08	12	438.9	1587.9	24	0.6	0.3	1.8	17	0.12	0.167	1571.5
IMA2524	Pulp	4.4	34.5	9.7	10	0.1	6.7	9.0	36	0.51	8	23.5	140.5	18	<0.1	0.1	0.4	6	0.04	0.023	219.6
IMA2525	Pulp	4.7	37.8	24.5	49	<0.1	12.3	21.5	45	0.72	25	85.8	583.0	23	0.1	0.2	0.8	8	0.05	0.100	889.4
IMA2526	Pulp	2.5	19.6	103.3	243	0.1	7.2	4.7	115	0.61	3	13.0	82.2	15	1.3	<0.1	0.3	4	0.19	0.011	111.2
IMA2527	Pulp	3.7	1085.6	18.6	14	0.2	25.4	10.7	394	2.61	8	15.0	59.6	41	<0.1	0.1	0.7	64	0.83	0.037	90.4
IMA2528	Pulp	5.1	17.4	90.3	6	<0.1	11.5	7.9	197	1.24	4	84.9	517.2	37	<0.1	0.1	0.1	12	0.23	0.061	642.9
IMA2529	Pulp	5.1	27.1	16.6	7	<0.1	11.8	6.4	41	1.52	16	47.0	247.5	42	<0.1	0.2	0.2	21	0.10	0.029	217.3
IMA2530	Pulp	4.5	20.5	16.1	4	<0.1	13.3	9.0	32	1.06	22	31.8	239.3	39	<0.1	0.2	0.2	15	0.13	0.032	315.2
IMA2531	Pulp	2.1	156.5	8.1	25	0.2	46.2	24.5	203	4.51	25	11.9	39.8	55	<0.1	0.2	0.4	106	0.21	0.036	60.2
IMA2532	Pulp	3.5	319.4	144.5	73	0.4	40.3	25.1	590	4.97	58	17.9	61.3	53	<0.1	0.3	1.0	72	0.22	0.039	124.0
IMA2533	Pulp	3.4	320.5	38.2	11	0.3	23.0	12.0	291	2.65	18	37.9	91.0	40	<0.1	0.3	0.9	47	0.13	0.031	86.8
IMA2534	Pulp	3.3	470.4	215.9	88	0.3	16.0	9.7	170	1.53	17	20.2	57.0	41	0.5	0.2	0.6	31	0.08	0.020	68.1
IMA2535	Pulp	2.1	16.6	18.7	21	<0.1	25.8	10.0	184	2.86	11	13.9	63.7	57	<0.1	0.1	0.3	65	0.19	0.023	86.2
IMA2536	Pulp	2.0	187.5	11.5	10	<0.1	17.7	11.9	239	2.00	18	18.7	29.2	41	<0.1	0.2	0.4	53	0.22	0.024	54.1
IMA2537	Pulp	2.8	106.3	34.1	6	0.2	28.6	46.1	146	1.69	79	79.1	643.1	30	<0.1	0.4	1.2	30	0.38	0.099	817.7
IMA2538	Pulp	2.4	39.6	22.2	3	0.1	18.0	23.4	112	0.79	47	75.7	426.3	26	<0.1	0.2	0.4	15	0.23	0.047	494.0
IMA2539	Pulp	2.3	27.6	15.4	6	0.1	14.3	18.7	149	1.05	36	31.3	158.8	29	<0.1	0.2	0.3	20	0.30	0.019	169.2
IMA2540	Pulp	1.9	15.0	51.1	3	<0.1	4.2	4.3	32	0.41	6	45.5	240.9	23	<0.1	0.1	0.3	9	0.07	0.031	321.6
IMA2541	Pulp	3.0	9.4	19.5	3	<0.1	8.3	11.9	31	0.72	19	21.7	137.3	21	<0.1	0.1	0.3	12	0.03	0.020	166.9
IMA2542	Pulp	6.2	9.7	47.4	3	0.1	6.2	8.9	20	1.04	34	95.2	706.5	24	<0.1	0.2	0.3	9	0.03	0.080	735.7
IMA2543	Pulp	5.4	11.0	50.7	2	<0.1	7.0	11.0	36	0.69	21	188.3	1028.4	25	<0.1	0.2	0.2	12	0.06	0.125	1187.3
IMA2544	Pulp	4.1	31.6	54.6	7	0.3	9.7	15.0	44	0.85	27	237.6	1425.2	31	<0.1	0.3	0.8	15	0.09	0.188	1670.4
IMA2545	Pulp	2.4	14.4	56.4	4	<0.1	5.6	5.7	35	0.49	7	44.1	265.9	22	<0.1	0.1	0.3	8	0.07	0.038	314.6
IMA2546	Pulp	1.5	118.3	162.4	162	0.3	11.9	7.5	236	1.20	8	4.0	19.0	59	0.6	0.2	0.3	13	0.26	0.006	23.4
IMA2547	Pulp	3.2	31.9	12.4	7	<0.1	12.6	6.5	88	1.43	9	13.1	65.1	38	<0.1	0.2	0.1	31	0.14	0.009	65.5
IMA2548	Pulp	1.9	15.5	42.2	32	<0.1	7.0	2.9	88	0.84	4	5.0	29.2	46	<0.1	0.1	0.1	10	0.20	0.007	53.0
IMA2549	Pulp	4.0	16.2	24.7	12	<0.1	13.3	9.4	184	1.96	13	37.4	183.3	39	<0.1	0.2	0.6	25	0.25	0.022	189.6



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA2520	Pulp	163	0.33	800	0.286	3.76	0.148	3.40	0.6	175.6	894	4.1	62.7	26.1	2.7	2	3	16.1	0.2	179.2	4.8
IMA2521	Pulp	304	0.55	578	0.395	4.26	0.056	3.12	0.8	213.5	>2000	4.1	128.6	41.5	4.9	3	4	24.0	0.4	185.6	5.9
IMA2522	Pulp	476	<0.01	25	0.013	0.99	0.134	0.28	0.2	49.1	29	0.4	1.9	0.9	<0.1	<1	<1	0.7	<0.1	9.2	1.3
IMA2523	Pulp	189	0.60	527	0.421	3.43	0.077	2.27	0.9	223.9	>2000	3.3	148.6	45.8	5.1	3	4	21.4	0.5	158.5	6.0
IMA2524	Pulp	144	0.06	741	0.125	3.13	0.050	4.28	0.6	121.6	393	0.8	14.8	11.6	1.1	<1	1	1.8	<0.1	160.2	3.4
IMA2525	Pulp	246	0.07	853	0.292	3.28	0.057	3.91	1.0	224.9	1539	1.2	49.1	27.9	3.1	<1	2	2.5	0.1	152.4	6.2
IMA2526	Pulp	235	0.08	437	0.066	1.88	0.029	2.50	0.3	52.8	188	0.5	8.7	7.0	0.5	<1	<1	1.3	<0.1	98.2	1.4
IMA2527	Pulp	209	0.82	656	0.223	5.03	0.594	2.96	0.7	416.4	160	2.1	14.9	7.1	0.5	3	8	21.1	0.2	193.2	11.4
IMA2528	Pulp	441	0.11	837	0.257	3.54	0.100	3.65	0.6	135.8	1095	1.3	35.2	24.0	2.5	<1	2	3.1	<0.1	143.4	3.7
IMA2529	Pulp	185	0.26	1283	0.221	5.75	0.104	4.10	2.1	170.5	390	2.0	25.6	21.5	2.1	1	3	8.6	0.2	182.2	4.6
IMA2530	Pulp	118	0.11	1231	0.182	4.96	0.101	3.77	1.2	146.0	527	1.6	23.9	16.6	1.7	<1	2	3.9	0.2	147.1	3.9
IMA2531	Pulp	163	1.06	679	0.421	7.09	1.942	3.13	0.7	429.4	116	2.0	11.5	10.8	0.9	2	12	28.2	0.2	181.5	11.3
IMA2532	Pulp	206	0.82	785	0.304	6.45	1.845	3.01	0.5	459.4	219	3.4	11.2	8.9	0.7	1	11	16.9	0.4	127.6	12.1
IMA2533	Pulp	225	0.43	716	0.187	4.52	1.129	3.05	0.4	328.2	155	1.8	12.0	7.9	0.8	<1	6	10.0	0.2	108.0	8.9
IMA2534	Pulp	122	0.25	794	0.145	4.26	1.230	3.24	0.2	247.6	121	1.0	7.9	6.2	0.6	<1	4	5.5	0.1	96.3	6.4
IMA2535	Pulp	153	0.62	591	0.239	7.16	3.556	3.00	0.4	113.8	159	2.2	9.6	6.9	0.6	1	8	14.7	<0.1	116.8	2.9
IMA2536	Pulp	107	0.41	682	0.129	6.10	2.352	3.00	0.4	190.1	100	1.6	6.4	5.1	0.4	<1	7	7.8	<0.1	133.8	5.4
IMA2537	Pulp	181	0.22	269	0.210	3.22	0.176	3.39	1.6	208.2	1480	1.5	56.3	21.4	3.1	<1	4	7.6	1.1	160.2	5.7
IMA2538	Pulp	195	0.11	616	0.278	2.68	0.043	2.51	1.8	294.7	873	1.2	38.0	26.1	2.6	<1	3	3.0	0.3	120.1	8.0
IMA2539	Pulp	175	0.29	843	0.195	4.57	0.053	3.68	1.2	283.4	296	4.0	18.6	17.3	1.8	2	5	11.3	0.2	213.2	7.7
IMA2540	Pulp	92	0.08	938	0.178	4.41	0.075	3.39	0.9	138.0	568	1.7	23.1	16.2	1.8	<1	2	2.9	<0.1	150.6	3.7
IMA2541	Pulp	180	0.05	819	0.111	3.96	0.068	4.08	0.8	130.6	303	1.5	14.2	9.3	0.9	<1	2	2.1	0.3	169.1	3.6
IMA2542	Pulp	110	0.06	799	0.189	3.69	0.058	4.10	1.3	169.1	1332	1.8	58.4	19.2	2.2	<1	2	4.8	0.7	180.8	4.8
IMA2543	Pulp	172	0.11	777	0.302	3.75	0.059	3.47	2.2	221.4	>2000	2.6	84.9	31.1	3.7	1	3	5.9	0.2	165.9	6.2
IMA2544	Pulp	146	0.18	935	0.347	5.31	0.099	4.02	1.6	295.1	>2000	5.4	129.2	35.8	4.2	2	3	9.6	0.2	210.8	8.4
IMA2545	Pulp	137	0.09	849	0.148	4.12	0.061	4.02	0.9	144.3	577	1.8	23.0	12.3	1.4	<1	2	2.8	<0.1	174.6	4.2
IMA2546	Pulp	178	0.25	650	0.079	4.52	1.402	3.36	0.3	79.7	46	0.6	4.0	3.6	0.4	<1	2	7.1	<0.1	107.4	2.2
IMA2547	Pulp	209	0.31	1248	0.150	6.34	0.094	3.82	0.7	141.5	117	2.3	8.2	11.5	1.0	2	5	11.3	<0.1	178.3	3.9
IMA2548	Pulp	110	0.18	1149	0.085	5.02	0.432	4.15	0.8	65.5	96	1.0	4.3	6.4	0.6	<1	2	5.7	<0.1	150.4	1.8
IMA2549	Pulp	105	0.42	1163	0.165	5.90	0.082	3.45	0.9	216.6	350	2.4	19.2	13.9	1.4	2	4	16.4	0.2	140.1	6.2



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Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA2520	Pulp	0.14	<0.005	<1	<0.5	0.9
IMA2521	Pulp	0.07	<0.005	<1	<0.5	1.1
IMA2522	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2523	Pulp	<0.05	<0.005	2	<0.5	1.0
IMA2524	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2525	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2526	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2527	Pulp	0.09	<0.005	<1	<0.5	0.9
IMA2528	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2529	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2530	Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2531	Pulp	0.06	<0.005	<1	<0.5	1.3
IMA2532	Pulp	0.08	<0.005	<1	<0.5	0.8
IMA2533	Pulp	0.06	<0.005	<1	<0.5	0.7
IMA2534	Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2535	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2536	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2537	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2538	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2539	Pulp	0.05	<0.005	<1	<0.5	1.1
IMA2540	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2541	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2542	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2543	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2544	Pulp	0.05	<0.005	<1	<0.5	1.3
IMA2545	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2546	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2547	Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA2548	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2549	Pulp	<0.05	<0.005	<1	<0.5	1.0



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Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.001	0.1	
IMA2550	Pulp	2.6	64.5	273.0	355	0.3	29.5	22.9	264	4.11	11	56.3	131.6	62	1.6	0.2	0.3	66	0.15	0.055	140.3
IMA2551	Pulp	2.9	35.9	178.9	200	0.2	19.7	12.5	210	3.00	5	58.8	136.8	69	0.7	0.2	0.4	57	0.14	0.044	149.0
IMA2552	Pulp	3.0	37.7	112.5	76	0.2	17.2	12.3	220	2.88	4	56.2	134.3	62	0.1	0.2	0.5	46	0.16	0.040	142.9
IMA2553	Pulp	3.6	25.7	208.6	187	0.3	25.2	11.8	248	2.97	3	61.2	143.7	59	0.7	0.2	0.8	54	0.19	0.038	150.3
IMA2554	Pulp	1.4	12.4	40.3	92	<0.1	50.3	17.7	386	5.17	7	6.0	14.6	45	0.1	0.2	<0.1	120	0.09	0.013	21.5
IMA2555	Pulp	2.3	16.0	229.4	372	0.1	47.7	15.0	361	4.66	4	6.2	22.1	71	1.5	0.2	0.1	99	0.10	0.012	33.1
IMA2556	Pulp	2.3	17.9	50.7	107	0.1	46.7	19.3	330	4.35	15	4.2	15.0	78	0.5	0.2	0.2	88	0.13	0.024	31.3
IMA2557	Pulp	2.5	14.7	15.6	11	0.2	12.0	6.4	59	2.20	1	15.9	77.9	56	<0.1	0.1	0.2	29	0.02	0.010	86.4
IMA2558	Pulp	2.8	38.9	11.3	18	0.2	40.3	20.4	124	3.42	13	21.8	70.6	54	<0.1	0.2	0.1	97	0.08	0.011	79.1
IMA2559	Pulp	2.2	37.6	6.7	18	0.2	40.5	20.0	145	3.89	15	10.1	37.6	66	<0.1	0.2	0.2	106	0.12	0.031	69.0
IMA2560	Pulp	2.2	23.6	59.7	136	<0.1	49.4	27.8	343	4.79	24	6.6	24.7	66	0.2	0.2	0.1	101	0.12	0.040	53.4
IMA2561	Pulp	3.1	69.6	309.4	504	0.3	38.3	23.5	263	4.48	15	21.6	77.5	58	2.4	<0.1	0.5	74	0.12	0.038	104.1
IMA2562	Pulp	1.8	49.6	24.9	165	0.2	51.3	18.3	281	4.94	10	7.2	22.7	57	0.7	0.2	0.2	124	0.10	0.027	38.9
IMA2563	Pulp	1.8	3.5	1.5	1	<0.1	7.8	1.0	36	0.41	<1	0.9	3.4	23	<0.1	<0.1	<0.1	4	<0.01	0.002	9.4
IMA2564	Pulp	5.3	43.0	149.4	9	0.3	13.2	24.1	23	0.69	34	121.6	927.1	27	<0.1	0.2	1.4	<1	0.04	0.115	1142.6
IMA2565	Pulp	3.3	16.2	20.3	3	0.1	9.9	14.6	79	0.88	21	51.7	270.5	29	<0.1	0.1	0.5	13	0.18	0.034	302.3
IMA2566	Pulp	1.8	20.4	12.8	4	<0.1	10.4	2.1	57	1.21	4	10.1	42.5	43	<0.1	<0.1	<0.1	10	0.14	0.009	74.0
IMA2567	Pulp	2.6	37.7	11.8	4	<0.1	5.4	2.6	82	0.74	4	14.8	86.3	32	<0.1	0.2	0.3	12	0.18	0.014	120.7
IMA2568	Pulp	6.8	28.6	13.6	3	<0.1	9.5	4.0	41	1.09	5	23.6	154.4	37	<0.1	0.2	0.2	10	0.07	0.022	215.0



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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 12, 2018

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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
IMA2550	Pulp	280	0.82	532	0.371	5.73	1.837	3.18	0.7	194.6	263	3.3	23.6	17.1	1.8	1	7	17.6	0.2	190.9	5.6
IMA2551	Pulp	194	0.63	694	0.314	6.16	1.820	3.25	0.7	197.3	264	5.2	23.8	18.5	2.3	1	6	16.6	0.1	162.6	5.4
IMA2552	Pulp	186	0.59	625	0.267	5.32	1.621	3.13	0.7	181.7	257	3.2	22.3	15.0	1.8	1	5	17.3	0.1	135.9	5.2
IMA2553	Pulp	345	0.66	735	0.302	5.88	1.103	3.68	0.7	198.4	269	2.2	26.1	17.8	2.1	2	6	21.2	<0.1	184.1	5.5
IMA2554	Pulp	157	1.36	871	0.412	8.65	1.108	4.19	1.2	116.0	43	3.9	6.6	11.7	1.0	4	12	40.6	<0.1	283.2	3.3
IMA2555	Pulp	172	1.18	737	0.364	7.96	1.982	4.35	0.9	172.4	64	2.8	6.5	10.4	0.9	3	11	32.4	<0.1	263.5	4.9
IMA2556	Pulp	247	1.03	683	0.331	7.20	2.119	3.90	0.7	169.1	62	2.1	6.2	7.9	0.7	2	10	27.8	<0.1	238.0	4.9
IMA2557	Pulp	128	0.57	1426	0.263	6.96	0.388	6.37	0.7	172.5	155	2.2	10.8	17.6	1.7	2	4	21.0	<0.1	216.0	4.7
IMA2558	Pulp	134	0.96	1151	0.432	8.83	1.159	5.02	0.9	462.6	148	3.9	15.2	15.6	1.3	4	12	37.0	0.2	272.2	13.4
IMA2559	Pulp	137	1.10	885	0.423	8.38	2.026	4.56	1.0	391.4	131	3.2	12.0	13.1	1.0	4	13	34.8	0.1	248.5	11.1
IMA2560	Pulp	147	1.14	668	0.425	6.56	1.762	3.91	0.7	238.4	103	1.7	8.1	9.7	0.8	2	12	28.8	<0.1	258.1	7.0
IMA2561	Pulp	179	0.88	728	0.425	5.95	2.015	3.13	0.7	521.7	188	2.0	15.7	12.6	1.0	<1	11	19.6	0.2	122.2	15.7
IMA2562	Pulp	162	1.24	758	0.406	7.65	2.017	4.21	0.9	261.7	78	2.9	8.9	9.8	0.9	3	13	32.5	<0.1	217.1	7.6
IMA2563	Pulp	212	<0.01	16	0.007	0.75	0.098	0.21	<0.1	57.1	18	0.2	1.4	0.5	<0.1	<1	<1	1.0	<0.1	6.9	1.5
IMA2564	Pulp	138	0.02	696	0.235	2.98	0.051	4.01	2.1	135.3	>2000	1.2	72.7	29.1	3.6	<1	2	2.6	0.4	153.9	3.8
IMA2565	Pulp	188	0.15	924	0.218	4.56	0.070	5.24	1.4	200.1	546	2.6	29.7	17.8	2.0	1	3	7.6	0.3	230.0	5.6
IMA2566	Pulp	150	0.20	1402	0.073	5.69	0.207	6.34	0.3	103.8	126	0.7	5.9	6.2	0.5	<1	1	7.4	<0.1	206.9	2.9
IMA2567	Pulp	120	0.13	1051	0.087	4.29	0.281	4.55	0.7	101.7	207	0.8	9.7	6.9	0.6	<1	2	2.5	<0.1	169.9	2.8
IMA2568	Pulp	242	0.07	1121	0.152	4.43	0.082	5.42	1.3	109.5	379	0.9	16.5	13.7	1.5	<1	1	3.0	<0.1	190.7	3.0



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA2550	Pulp	<0.05	<0.005	<1	<0.5	1.6
IMA2551	Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2552	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2553	Pulp	0.05	<0.005	<1	<0.5	0.9
IMA2554	Pulp	0.06	<0.005	<1	<0.5	1.8
IMA2555	Pulp	<0.05	<0.005	<1	<0.5	1.5
IMA2556	Pulp	0.07	<0.005	<1	<0.5	1.4
IMA2557	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2558	Pulp	0.07	<0.005	<1	<0.5	1.6
IMA2559	Pulp	0.05	<0.005	<1	<0.5	1.2
IMA2560	Pulp	<0.05	<0.005	<1	<0.5	1.6
IMA2561	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2562	Pulp	0.06	<0.005	<1	<0.5	1.1
IMA2563	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2564	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2565	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2566	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2567	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2568	Pulp	<0.05	<0.005	<1	<0.5	1.0



QUALITY CONTROL REPORT

VAN18000488.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
Pulp Duplicates																					
IMA2481	Pulp	7.0	30.5	235.0	241	0.4	9.9	35.5	52	0.74	35	95.0	516.0	29	1.3	<0.1	0.6	10	0.10	0.061	612.6
REP IMA2481	QC	6.3	29.3	225.4	239	0.4	10.6	38.7	47	0.76	37	96.2	506.3	30	1.6	<0.1	0.5	11	0.11	0.059	618.0
IMA2517	Pulp	7.0	24.1	418.3	237	0.4	15.0	57.6	58	1.01	74	268.5	1001.0	15	1.4	0.3	1.9	13	0.03	0.106	1156.1
REP IMA2517	QC	7.3	23.9	408.1	231	0.4	14.7	55.5	59	1.03	72	276.9	1040.7	16	1.3	0.2	1.9	13	0.03	0.109	1080.2
IMA2553	Pulp	3.6	25.7	208.6	187	0.3	25.2	11.8	248	2.97	3	61.2	143.7	59	0.7	0.2	0.8	54	0.19	0.038	150.3
REP IMA2553	QC	3.6	26.1	204.4	185	0.3	25.5	12.0	250	3.10	3	60.9	138.6	61	0.7	0.2	0.8	55	0.19	0.041	155.8
Reference Materials																					
STD OREAS25A-4A	Standard	2.2	36.3	24.6	45	<0.1	46.2	7.9	503	6.84	10	2.8	15.4	48	<0.1	0.6	0.4	168	0.30	0.051	22.1
STD OREAS25A-4A	Standard	2.1	30.7	25.2	41	<0.1	43.0	7.9	486	6.77	9	2.6	14.0	43	<0.1	0.5	0.3	170	0.28	0.050	22.5
STD OREAS25A-4A	Standard	2.6	37.3	26.3	43	<0.1	49.7	8.2	524	6.86	11	3.0	16.5	49	0.2	0.6	0.3	170	0.29	0.056	24.0
STD OREAS25A-4A	Standard	2.5	34.5	24.9	43	<0.1	45.5	7.8	508	6.57	9	2.9	16.2	49	<0.1	0.6	0.4	166	0.30	0.048	23.8
STD OREAS45E	Standard	2.2	777.0	18.3	48	0.3	483.5	61.0	608	25.73	19	2.4	13.1	17	<0.1	1.0	0.3	351	0.07	0.036	11.9
STD OREAS45E	Standard	2.5	796.1	19.7	48	0.4	503.1	61.7	563	24.64	18	2.4	13.1	16	<0.1	0.9	0.2	337	0.07	0.036	12.6
STD OREAS45E	Standard	2.1	784.9	19.0	48	0.3	480.8	59.6	562	25.86	14	2.5	13.6	16	<0.1	0.9	0.3	351	0.07	0.037	11.4
STD OREAS45E	Standard	2.3	783.8	18.7	46	0.3	483.3	60.7	572	24.15	17	2.6	13.7	17	<0.1	1.0	0.4	346	0.07	0.033	12.0
STD OREAS25A-4A Expected		2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283	0.0495	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	



QUALITY CONTROL REPORT

VAN18000488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Pulp Duplicates																					
IMA2481	Pulp	140	0.17	1119	0.200	4.74	0.079	3.44	1.4	177.0	1132	3.3	41.2	20.8	2.6	2	3	10.3	0.1	181.9	5.4
REP IMA2481	QC	141	0.18	1073	0.199	4.72	0.077	3.10	1.4	172.9	1144	2.9	37.8	19.5	2.3	1	3	9.4	0.1	165.5	4.9
IMA2517	Pulp	355	0.18	383	0.294	3.82	0.080	3.01	0.9	205.7	1932	5.7	94.2	31.4	3.8	3	3	10.2	0.1	189.6	5.9
REP IMA2517	QC	322	0.20	388	0.324	3.92	0.082	3.08	0.8	204.3	1849	6.0	96.3	33.3	4.0	3	3	10.0	0.1	190.2	6.0
IMA2553	Pulp	345	0.66	735	0.302	5.88	1.103	3.68	0.7	198.4	269	2.2	26.1	17.8	2.1	2	6	21.2	<0.1	184.1	5.5
REP IMA2553	QC	343	0.68	725	0.298	6.11	1.135	3.90	0.8	200.0	277	2.2	26.7	17.3	1.9	2	6	19.7	<0.1	186.3	5.4
Reference Materials																					
STD OREAS25A-4A	Standard	116	0.36	148	0.944	9.42	0.145	0.53	1.9	155.5	50	4.0	10.2	19.7	1.4	1	13	41.2	<0.1	60.8	4.0
STD OREAS25A-4A	Standard	119	0.32	146	0.962	9.32	0.141	0.54	1.8	149.3	46	4.3	9.3	19.7	1.5	1	13	38.3	<0.1	60.2	4.5
STD OREAS25A-4A	Standard	122	0.37	152	1.011	9.96	0.138	0.52	1.9	162.1	52	4.0	10.9	21.6	1.6	1	13	38.0	<0.1	64.0	4.7
STD OREAS25A-4A	Standard	122	0.33	146	0.946	8.97	0.141	0.49	2.1	150.8	50	4.0	11.0	20.0	1.4	<1	12	39.6	<0.1	60.9	4.1
STD OREAS45E	Standard	1064	0.16	258	0.570	7.31	0.055	0.39	1.0	102.7	25	1.4	8.3	6.5	0.5	<1	99	6.6	<0.1	22.6	3.1
STD OREAS45E	Standard	1077	0.16	275	0.556	7.18	0.057	0.38	1.2	101.3	25	1.4	7.1	6.2	0.6	<1	102	8.0	<0.1	23.7	3.1
STD OREAS45E	Standard	1054	0.17	252	0.563	7.40	0.057	0.34	1.0	97.4	25	1.5	7.7	6.2	0.6	<1	94	6.3	<0.1	23.2	2.9
STD OREAS45E	Standard	966	0.16	252	0.542	6.85	0.060	0.35	1.1	95.0	26	1.4	8.6	6.4	0.5	<1	96	7.5	<0.1	20.8	2.7
STD OREAS25A-4A Expected		120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047	61	4.28
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	3	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	3	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.4	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.2	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.3	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1	0.1	<0.1



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Project: None Given
Report Date: March 12, 2018

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Part: 3 of 3

QUALITY CONTROL REPORT

VAN18000488.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
Pulp Duplicates						
IMA2481	Pulp	<0.05	<0.005	<1	<0.5	1.3
REP IMA2481	QC	<0.05	<0.005	<1	<0.5	1.2
IMA2517	Pulp	0.07	<0.005	1	<0.5	0.9
REP IMA2517	QC	<0.05	<0.005	<1	<0.5	0.9
IMA2553	Pulp	0.05	<0.005	<1	<0.5	0.9
REP IMA2553	QC	<0.05	<0.005	<1	<0.5	0.9
Reference Materials						
STD OREAS25A-4A	Standard	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.11	0.007	1	<0.5	<0.5
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.5		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.09
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5



BUREAU VERITAS MINERAL LABORATORIES

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: November 14, 2017
Report Date: December 07, 2017
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN17002708.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 189

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	189	Sorting, labeling and boxing samples received as pulps			VAN
MA200	189	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	189	Warehouse handling / disposition of pulps			VAN

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. * asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **MacGregor, R.A.**
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Project: None Given
Report Date: December 07, 2017

Page: 2 of 8

Part: 1 of 3

CERTIFICATE OF ANALYSIS VAN17002708 1

Method	Analyte	MA200																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA2057	Pulp	3.3	8.8	32.7	189	0.2	41.8	25.1	949	6.87	2	100.1	38.4	198	<0.1	0.3	<0.1	118	3.01	0.114	43.3
IMA2058	Pulp	0.9	1.6	41.0	9	<0.1	7.1	1.4	104	0.79	1	216.0	114.2	78	<0.1	0.2	<0.1	3	0.35	0.003	40.1
IMA2059	Pulp	1.4	4.2	58.8	18	<0.1	9.0	3.0	183	1.19	4	295.9	115.8	128	<0.1	0.2	<0.1	10	0.75	0.011	85.4
IMA2060	Pulp	1.2	5.7	28.1	29	0.1	11.5	3.7	235	1.73	4	82.7	58.8	174	<0.1	0.3	<0.1	12	1.11	0.016	16.5
IMA2061	Pulp	0.1	2.4	2.8	25	0.1	1.9	1.0	824	0.82	<1	4.9	2.3	77	<0.1	<0.1	<0.1	2	22.47	0.009	3.1
IMA2062	Pulp	3.1	20.8	33.4	5	0.1	6.4	7.2	48	0.62	9	118.3	555.9	26	<0.1	0.2	0.4	11	0.12	0.070	654.0
IMA2063	Pulp	3.0	9.7	48.1	4	<0.1	6.4	5.2	44	0.57	6	100.8	499.0	25	<0.1	0.2	0.2	10	0.08	0.058	577.2
IMA2064	Pulp	8.5	63.4	129.5	30	0.9	13.4	36.8	25	2.13	44	628.2	882.9	21	0.2	0.8	4.0	12	0.02	0.089	845.0
IMA2065	Pulp	6.8	20.0	158.8	5	0.7	11.7	26.8	26	1.38	16	722.0	2450.0	30	<0.1	0.5	2.6	18	0.07	0.268	>2000
IMA2066	Pulp	4.3	7.6	73.4	6	0.2	10.2	10.7	36	0.93	8	244.9	1024.0	20	0.1	0.3	0.8	18	0.04	0.118	1112.4
IMA2067	Pulp	3.5	4.6	11.0	5	<0.1	5.0	2.1	30	0.51	1	12.6	66.7	13	<0.1	0.1	<0.1	9	0.02	0.013	85.4
IMA2068	Pulp	3.6	6.2	19.2	5	<0.1	6.3	2.4	30	0.54	2	41.0	200.9	17	<0.1	<0.1	<0.1	11	0.02	0.027	245.1
IMA2069	Pulp	4.7	12.8	51.8	7	0.1	7.4	4.1	40	0.83	3	80.3	383.0	20	<0.1	0.2	0.2	14	0.04	0.047	427.1
IMA2070	Pulp	2.4	16.7	58.5	74	<0.1	8.6	3.9	109	1.16	2	8.9	45.7	48	0.5	0.1	0.3	9	0.09	0.006	80.7
IMA2071	Pulp	5.1	15.8	83.8	90	<0.1	9.8	6.1	152	1.54	4	14.2	67.8	67	0.5	0.1	0.2	17	0.15	0.009	82.7
IMA2072	Pulp	2.6	13.5	44.8	52	<0.1	10.1	3.5	137	1.50	<1	9.0	47.6	60	0.2	<0.1	0.1	12	0.05	0.007	103.7
IMA2073	Pulp	5.4	14.4	93.6	82	0.1	12.1	6.3	204	2.04	5	30.0	177.6	72	0.1	0.2	0.1	30	0.08	0.018	161.0
IMA2074	Pulp	10.4	31.7	184.9	92	0.5	11.1	23.6	24	1.19	26	449.7	1884.7	31	0.8	0.3	2.7	20	0.08	0.194	1986.2
IMA2075	Pulp	5.5	30.6	192.5	187	0.3	10.1	12.7	42	0.88	14	117.6	780.2	29	0.4	0.3	1.1	18	0.10	0.098	954.0
IMA2076	Pulp	4.3	13.2	35.4	14	0.1	7.4	7.0	30	0.62	9	77.2	448.3	27	<0.1	0.2	0.7	12	0.05	0.062	553.3
IMA2077	Pulp	5.4	11.6	59.6	4	0.2	7.6	10.7	22	0.82	11	219.4	1188.8	32	<0.1	0.3	1.2	17	0.02	0.132	1378.6
IMA2078	Pulp	3.4	17.2	58.1	55	0.1	7.5	6.0	40	0.69	4	74.7	364.2	26	0.1	0.2	0.5	12	0.05	0.041	418.8
IMA2079	Pulp	9.6	12.5	97.8	5	0.1	5.8	4.4	36	0.53	5	104.5	534.3	28	<0.1	0.2	0.5	12	0.09	0.061	617.2
IMA2080	Pulp	2.6	54.4	38.9	46	<0.1	77.9	23.2	231	3.73	24	10.9	45.4	18	<0.1	0.3	0.3	122	0.10	0.040	62.5
IMA2081	Pulp	1.8	93.3	10.1	39	0.1	104.7	29.1	232	4.57	26	6.7	14.2	16	0.1	0.3	0.6	169	0.10	0.047	26.2
IMA2082	Pulp	2.2	91.0	81.1	225	0.1	98.2	35.7	252	4.70	42	5.5	13.0	16	1.3	0.4	0.7	185	0.09	0.051	27.8
IMA2083	Pulp	2.2	100.0	63.4	96	0.3	111.7	41.0	236	4.68	44	5.5	13.2	16	0.3	0.3	0.8	180	0.11	0.060	30.0
IMA2084	Pulp	2.1	396.1	31.7	128	0.6	102.8	47.9	287	6.56	39	8.4	19.3	16	0.4	0.3	1.0	172	0.12	0.080	29.9
IMA2085	Pulp	1.7	160.9	8.6	73	0.4	38.2	20.6	308	7.94	5	33.2	86.2	20	0.1	0.2	0.2	163	0.13	0.064	103.4
IMA2086	Pulp	5.0	35.3	66.9	53	0.3	9.4	14.6	29	0.66	11	337.6	710.1	23	0.3	0.3	1.8	14	0.05	0.073	715.7

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BUREAU VERITAS MINERAL LABORATORIES

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

Page: 2 of 8

Part: 2 of 3

CERTIFICATE OF ANALYSIS VAN17002708.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
				Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm		
IMA2057	Pulp			118	2.25	142	1.036	7.44	3.679	2.68	0.5	223.4	114	9.5	136.5	67.5	3.2	6	12	231.5	<0.1	361.3	7.5
IMA2058	Pulp			87	0.16	135	0.041	7.20	2.928	4.31	0.5	343.0	85	1.0	43.6	29.8	1.6	4	<1	18.4	<0.1	347.4	11.1
IMA2059	Pulp			163	0.31	94	0.135	6.62	3.838	2.34	0.5	470.6	173	1.7	78.6	49.4	3.9	9	1	31.1	<0.1	149.3	16.1
IMA2060	Pulp			164	0.33	83	0.146	7.22	4.467	1.51	0.9	126.7	41	1.7	57.1	84.0	2.5	8	2	26.7	<0.1	73.9	4.4
IMA2061	Pulp			10	10.55	56	0.007	0.22	0.104	0.06	<0.1	5.7	4	<0.1	6.2	1.5	<0.1	<1	<1	4.0	<0.1	2.9	0.2
IMA2062	Pulp			135	0.12	900	0.190	4.79	0.063	4.37	1.2	186.3	1220	2.1	50.4	20.1	2.3	1	2	4.5	0.1	237.4	4.9
IMA2063	Pulp			175	0.09	887	0.145	4.51	0.060	4.68	1.0	147.3	1071	1.8	45.7	15.1	1.6	<1	2	3.5	<0.1	215.7	4.3
IMA2064	Pulp			250	0.06	67	0.151	3.42	0.039	3.23	0.7	99.6	1616	2.5	105.0	40.2	6.9	<1	2	6.7	1.9	154.3	2.8
IMA2065	Pulp			197	0.10	409	0.290	4.42	0.039	2.87	0.9	169.7	>2000	3.6	224.6	46.3	5.7	2	3	9.9	0.9	178.0	5.0
IMA2066	Pulp			238	0.10	435	0.358	4.92	0.041	3.15	0.6	230.4	>2000	3.0	95.5	38.7	4.4	2	3	5.5	0.4	190.1	6.6
IMA2067	Pulp			153	0.08	489	0.102	4.91	0.044	3.59	0.3	102.7	143	2.1	7.4	7.0	0.6	2	1	2.3	<0.1	194.9	3.0
IMA2068	Pulp			162	0.07	536	0.195	4.65	0.045	3.95	0.3	186.7	450	2.0	21.1	15.7	1.6	1	2	2.9	<0.1	191.0	4.9
IMA2069	Pulp			180	0.08	595	0.257	5.07	0.051	4.02	0.5	237.4	805	2.4	39.1	22.1	2.4	1	3	3.5	<0.1	210.0	6.9
IMA2070	Pulp			232	0.18	993	0.067	3.93	0.101	3.94	0.2	75.2	148	0.7	6.6	7.0	0.7	<1	<1	5.4	<0.1	156.2	2.0
IMA2071	Pulp			203	0.27	1366	0.130	5.73	0.153	5.53	0.3	111.6	153	1.2	10.5	13.3	1.3	<1	2	7.9	<0.1	220.9	3.2
IMA2072	Pulp			331	0.23	1211	0.094	4.85	0.109	5.09	0.3	82.4	189	1.0	7.8	9.8	0.9	<1	1	7.1	<0.1	204.4	2.5
IMA2073	Pulp			126	0.47	1678	0.296	8.65	0.162	6.58	1.0	245.1	304	4.2	22.4	29.4	2.9	3	5	20.6	<0.1	330.2	7.0
IMA2074	Pulp			183	0.08	292	0.311	4.00	0.050	4.16	2.0	223.8	>2000	2.5	183.3	50.7	6.1	1	3	6.3	0.9	192.4	6.7
IMA2075	Pulp			233	0.11	858	0.358	5.22	0.058	4.33	1.3	264.2	1777	3.8	73.5	38.2	4.4	2	4	5.5	0.3	266.2	7.8
IMA2076	Pulp			168	0.07	897	0.233	4.82	0.066	4.50	0.7	169.9	1040	2.2	39.9	23.8	2.9	<1	3	2.8	0.2	226.5	5.0
IMA2077	Pulp			142	0.10	886	0.261	5.54	0.063	4.77	0.7	204.2	>2000	3.4	107.6	33.7	4.0	2	3	7.0	0.4	253.6	6.1
IMA2078	Pulp			187	0.10	986	0.142	5.09	0.074	4.95	0.7	140.6	789	2.3	31.3	14.3	1.6	1	2	4.0	0.1	243.0	4.0
IMA2079	Pulp			131	0.10	877	0.181	4.48	0.056	4.70	0.8	178.3	1155	2.0	45.1	19.1	2.1	1	2	3.2	<0.1	215.3	5.1
IMA2080	Pulp			233	0.87	660	0.378	8.77	0.073	4.86	2.4	154.0	132	2.9	11.9	11.7	1.0	3	17	22.7	0.3	308.4	4.6
IMA2081	Pulp			181	1.02	591	0.460	10.86	0.068	5.60	3.2	154.5	65	3.4	10.2	11.7	1.0	4	22	31.6	0.5	350.5	4.6
IMA2082	Pulp			180	1.03	616	0.513	11.14	0.062	5.75	3.0	163.5	68	3.4	11.2	12.6	1.0	5	24	31.4	0.4	375.0	4.7
IMA2083	Pulp			179	0.99	609	0.498	10.75	0.061	5.72	3.2	160.3	89	3.3	11.7	12.1	1.0	4	25	31.0	0.6	371.1	4.8
IMA2084	Pulp			245	1.31	539	0.432	9.84	0.098	4.78	2.3	155.4	69	2.8	12.4	11.4	0.9	4	23	32.4	0.7	274.9	4.5
IMA2085	Pulp			212	1.50	342	0.452	7.28	0.431	2.64	1.0	180.7	202	1.5	22.9	11.0	1.2	3	18	36.5	0.3	147.5	5.2
IMA2086	Pulp			162	0.11	688	0.193	5.17	0.052	4.34	1.0	154.4	1346	2.7	76.4	24.6	3.2	2	3	5.6	0.3	210.8	4.3

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BUREAU MINERAL LABORATORIES
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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

Page: 2 of 8

Part: 3 of 3

CERTIFICATE OF ANALYSIS VAN17902708.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	Ti
		MDL	ppm	ppm	ppm	ppm	ppm
			0.05	0.005	1	0.5	0.5
IMA2057	Pulp		0.11	<0.005	<1	<0.5	2.8
IMA2058	Pulp		<0.05	<0.005	<1	<0.5	2.1
IMA2059	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2060	Pulp		<0.05	<0.005	<1	<0.5	0.5
IMA2061	Pulp		<0.05	<0.005	<1	6.2	<0.5
IMA2062	Pulp		<0.05	<0.005	<1	<0.5	1.1
IMA2063	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2064	Pulp		<0.05	<0.005	2	<0.5	0.8
IMA2065	Pulp		<0.05	<0.005	<1	<0.5	0.7
IMA2066	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2067	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2068	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2069	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2070	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2071	Pulp		<0.05	<0.005	<1	<0.5	1.2
IMA2072	Pulp		<0.05	<0.005	<1	<0.5	1.2
IMA2073	Pulp		0.08	<0.005	<1	<0.5	1.9
IMA2074	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2075	Pulp		<0.05	<0.005	<1	<0.5	1.1
IMA2076	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2077	Pulp		<0.05	<0.005	<1	<0.5	1.2
IMA2078	Pulp		<0.05	<0.005	<1	<0.5	1.1
IMA2079	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2080	Pulp		<0.05	<0.005	<1	<0.5	1.6
IMA2081	Pulp		0.13	0.010	1	<0.5	1.9
IMA2082	Pulp		0.12	0.009	2	<0.5	1.8
IMA2083	Pulp		0.11	0.008	2	<0.5	2.0
IMA2084	Pulp		0.11	0.013	3	0.5	1.7
IMA2085	Pulp		0.05	0.006	2	<0.5	0.6
IMA2086	Pulp		<0.05	<0.005	1	<0.5	0.9

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BUREAU VERITAS MINERAL LABORATORIES
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Client: **MacGregor, R.A.**
 28 Ford St.
 Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
 Report Date: December 07, 2017

Page: 6 of 8

Part: 1 of 3

CERTIFICATE OF ANALYSIS VAN170027081

Method	Analyte	MA200																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA2177	Pulp	2.7	7.0	31.7	8	<0.1	8.1	5.3	35	0.49	11	94.8	407.9	25	<0.1	0.1	0.8	11	0.07	0.060	448.6
IMA2178	Pulp	3.2	30.7	501.6	517	0.4	17.5	10.8	159	2.58	6	57.9	137.7	79	2.9	0.1	0.4	48	0.12	0.037	148.5
IMA2179	Pulp	2.9	28.6	451.4	576	0.5	17.6	8.1	160	2.26	7	51.5	128.2	74	3.6	0.1	0.8	47	0.13	0.034	138.5
IMA2180	Pulp	2.6	5.8	35.5	20	0.1	7.7	2.2	130	1.28	<1	6.9	37.3	59	<0.1	0.2	0.3	18	0.08	0.008	38.2
IMA2181	Pulp	1.6	19.5	127.4	31	0.8	11.3	4.1	144	1.40	3	3.9	19.4	65	0.2	0.1	1.7	11	0.11	0.003	23.0
IMA2182	Pulp	1.8	9.1	34.8	29	<0.1	6.1	2.1	90	0.75	4	4.1	18.7	41	0.3	<0.1	0.4	7	0.09	0.003	27.3
IMA2183	Pulp	2.9	117.8	13.3	14	0.1	19.5	24.9	445	2.29	28	45.7	116.6	44	<0.1	0.2	0.7	80	0.71	0.044	129.7
IMA2184	Pulp	2.3	162.8	18.6	8	0.1	12.6	12.7	139	1.31	9	2.1	5.7	19	<0.1	0.1	1.3	18	0.17	0.003	8.4
IMA2185	Pulp	2.1	29.6	8.7	3	<0.1	9.7	8.2	52	0.80	11	1.8	4.9	21	0.1	0.1	0.7	16	0.08	0.003	7.8
IMA2186	Pulp	1.6	9.3	3.7	3	<0.1	7.2	2.1	41	0.51	3	1.8	6.6	12	<0.1	0.1	0.2	6	0.02	0.002	9.0
IMA2187	Pulp	1.6	10.6	5.1	3	<0.1	6.4	1.2	47	0.49	2	2.2	7.0	13	<0.1	0.1	<0.1	7	0.06	0.003	10.8
IMA2188	Pulp	4.2	122.4	4.8	22	0.1	26.9	13.6	256	2.60	14	7.9	36.1	20	<0.1	0.4	0.4	109	0.97	0.032	81.8
IMA2189	Pulp	2.1	37.0	7.3	3	<0.1	7.6	1.8	78	0.54	3	2.6	7.6	26	<0.1	<0.1	<0.1	8	0.13	0.002	9.1
IMA2190	Pulp	2.1	32.0	23.2	7	<0.1	12.0	2.9	107	0.91	9	1.7	6.5	30	<0.1	0.1	1.1	14	0.28	0.005	13.6
IMA2191	Pulp	1.1	27.2	10.6	24	<0.1	30.0	11.2	306	3.71	17	7.6	22.9	19	<0.1	0.3	0.3	82	0.21	0.006	21.6
IMA2192	Pulp	2.4	26.4	20.6	9	<0.1	12.4	5.8	113	1.19	5	13.8	69.2	40	<0.1	0.2	0.6	19	0.35	0.011	64.1
IMA2193	Pulp	2.0	7.0	9.9	5	<0.1	9.5	3.0	66	1.05	3	8.9	40.1	33	<0.1	<0.1	0.1	19	0.23	0.006	50.3
IMA2194	Pulp	3.1	45.4	13.6	11	<0.1	17.9	7.7	83	1.57	12	11.3	50.9	33	<0.1	0.3	0.2	40	0.15	0.009	43.1
IMA2195	Pulp	2.0	31.3	12.3	7	<0.1	9.2	4.6	81	1.00	6	5.5	23.7	37	<0.1	<0.1	0.2	19	0.21	0.007	65.5
IMA2196	Pulp	3.5	13.1	14.7	5	0.2	14.6	10.7	51	0.93	20	23.4	136.1	38	<0.1	0.1	0.5	14	0.14	0.015	159.0
IMA2197	Pulp	2.6	6.8	13.8	4	0.2	24.2	17.9	63	1.48	37	10.6	44.8	39	<0.1	0.2	0.5	16	0.15	0.007	68.1
IMA2198	Pulp	2.4	27.4	12.4	13	0.1	24.5	10.3	258	2.09	11	17.2	61.4	47	<0.1	0.3	0.2	55	0.29	0.012	71.5
IMA2199	Pulp	3.9	74.0	10.2	23	0.4	43.3	33.5	560	5.67	29	15.1	55.1	64	<0.1	0.2	1.5	91	0.22	0.042	91.0
IMA2200	Pulp	1.9	48.5	34.0	21	0.2	43.7	12.2	238	3.09	42	5.6	16.3	20	<0.1	0.6	1.1	117	1.00	0.034	38.7
IMA2201	Pulp	3.0	261.3	28.8	14	0.2	20.3	30.7	271	2.04	47	30.0	72.8	49	0.2	0.2	1.0	43	0.13	0.025	96.8
IMA2202	Pulp	2.2	61.9	10.3	11	0.1	25.8	25.5	267	2.10	42	19.8	23.0	50	<0.1	0.2	0.8	65	0.17	0.016	15.3
IMA2203	Pulp	2.5	414.1	10.0	7	0.3	43.7	31.3	79	3.06	28	22.0	29.8	29	0.1	0.3	0.9	57	0.22	0.024	49.0
IMA2204	Pulp	1.7	25.5	8.3	36	<0.1	51.2	28.5	543	3.30	22	2.4	6.9	41	0.1	0.3	<0.1	49	0.70	0.037	18.3
IMA2205	Pulp	3.2	58.5	175.0	405	0.1	69.6	24.9	262	4.00	29	5.7	10.1	38	2.1	0.4	0.1	148	0.23	0.052	21.6
IMA2206	Pulp	1.9	105.3	91.1	165	0.1	97.9	34.7	175	3.57	31	4.5	8.5	28	0.8	0.2	0.2	174	0.15	0.054	23.9

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Client: **MacGregor, R.A.**
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

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Part: 2 of 3

CERTIFICATE OF ANALYSIS VAN17002708.1

Method	Analyte	Unit	MDL	MA200 Cr	MA200 Mg	MA200 Ba	MA200 Ti	MA200 Al	MA200 Na	MA200 K	MA200 W	MA200 Zr	MA200 Ce	MA200 Sn	MA200 Y	MA200 Nb	MA200 Ta	MA200 Be	MA200 Sc	MA200 Li	MA200 S	MA200 Rb	MA200 Hf
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA2177	Pulp			152	0.07	849	0.162	4.27	0.063	3.78	0.5	142.7	854	1.6	35.8	15.5	1.7	1	2	2.3	<0.1	186.5	4.3
IMA2178	Pulp			234	0.49	885	0.258	5.98	1.752	3.23	0.7	195.7	284	1.9	24.6	16.6	1.8	2	5	15.4	0.1	163.1	5.3
IMA2179	Pulp			255	0.45	755	0.260	5.95	1.400	3.41	0.7	196.8	274	1.8	24.5	16.1	1.9	2	5	17.7	0.1	175.0	5.7
IMA2180	Pulp			181	0.29	1367	0.119	6.31	0.169	4.61	0.5	108.4	76	2.3	5.8	10.3	1.0	1	3	10.7	<0.1	219.7	3.3
IMA2181	Pulp			268	0.21	1286	0.057	4.91	0.104	4.67	0.2	81.7	45	0.8	3.2	5.2	0.3	<1	1	5.0	<0.1	189.2	2.4
IMA2182	Pulp			175	0.11	843	0.041	3.15	0.068	3.78	0.2	73.9	52	0.5	3.5	4.6	0.4	<1	1	3.4	<0.1	131.1	2.2
IMA2183	Pulp			175	0.70	756	0.178	7.30	0.973	3.61	0.9	171.3	258	2.9	22.8	13.2	1.2	3	11	24.8	0.1	238.6	4.8
IMA2184	Pulp			268	0.24	589	0.020	3.09	0.043	2.87	0.5	34.8	16	0.8	2.0	1.7	0.2	<1	1	8.3	0.2	126.1	1.0
IMA2185	Pulp			254	0.06	576	0.010	2.30	0.044	2.99	0.2	29.1	14	0.4	1.4	1.1	0.1	<1	<1	2.0	0.2	106.9	0.9
IMA2186	Pulp			239	0.02	338	0.012	1.33	0.026	1.78	0.2	34.0	17	0.3	1.4	1.1	<0.1	<1	<1	0.5	<0.1	83.2	1.0
IMA2187	Pulp			193	0.05	452	0.013	1.90	0.031	2.35	0.3	41.7	21	0.4	1.6	1.0	<0.1	<1	<1	1.3	<0.1	87.1	1.1
IMA2188	Pulp			287	0.71	910	0.272	7.78	0.048	4.68	1.9	393.0	168	3.5	11.6	9.0	0.6	4	17	21.5	0.1	326.0	11.0
IMA2189	Pulp			196	0.07	851	0.019	3.19	0.055	4.11	0.2	48.7	18	0.3	1.7	1.2	<0.1	<1	<1	1.0	<0.1	151.5	1.2
IMA2190	Pulp			274	0.16	889	0.034	3.59	0.053	4.04	0.5	58.9	25	0.6	2.0	1.6	0.1	<1	1	3.5	<0.1	148.9	1.7
IMA2191	Pulp			151	0.84	1071	0.196	7.52	0.181	4.04	0.9	261.0	50	3.5	5.2	7.6	0.5	4	8	24.4	<0.1	249.7	7.4
IMA2192	Pulp			308	0.28	1158	0.080	5.30	0.058	5.02	0.6	113.5	121	1.8	9.0	10.0	1.0	<1	3	10.4	<0.1	215.2	3.5
IMA2193	Pulp			205	0.21	1093	0.079	4.74	0.080	3.94	0.9	108.5	98	1.2	6.0	6.4	0.5	<1	2	8.1	<0.1	180.8	3.2
IMA2194	Pulp			342	0.34	1129	0.142	6.58	0.087	4.43	1.8	120.2	88	2.8	6.7	10.5	0.9	2	5	14.1	<0.1	251.8	3.4
IMA2195	Pulp			150	0.23	1217	0.062	5.32	0.088	5.67	0.7	72.4	125	1.3	4.8	4.9	0.4	<1	2	7.9	<0.1	251.0	1.9
IMA2196	Pulp			145	0.10	1300	0.085	4.65	0.074	4.45	1.3	112.9	300	1.0	13.3	8.0	0.8	<1	2	3.3	0.3	194.6	3.1
IMA2197	Pulp			234	0.16	227	0.068	5.59	0.138	7.11	0.9	110.2	139	1.1	6.2	5.8	0.5	<1	1	5.2	0.7	275.8	3.1
IMA2198	Pulp			135	0.56	1409	0.183	8.24	0.795	5.56	1.9	339.5	148	3.6	10.8	10.5	0.9	3	8	21.7	<0.1	291.3	9.7
IMA2199	Pulp			191	1.08	777	0.372	7.36	2.165	3.11	0.6	452.8	186	2.2	13.6	10.5	0.9	2	14	24.2	0.3	166.2	12.5
IMA2200	Pulp			119	0.82	1178	0.233	9.09	0.096	3.39	1.1	243.3	88	5.1	7.7	8.1	0.5	5	14	48.5	<0.1	225.3	7.1
IMA2201	Pulp			259	0.31	956	0.107	5.24	1.231	3.15	1.0	386.1	192	1.0	10.6	6.5	0.6	<1	5	6.6	0.1	147.7	11.0
IMA2202	Pulp			196	0.41	608	0.111	6.41	3.391	2.29	0.5	134.8	36	1.5	3.9	4.4	0.3	1	7	9.7	<0.1	121.8	3.8
IMA2203	Pulp			159	0.61	738	0.094	6.56	0.993	3.54	0.6	205.9	102	1.7	6.0	3.8	0.3	1	6	32.0	0.2	205.9	5.9
IMA2204	Pulp			305	1.41	187	0.052	4.39	0.173	1.87	0.4	103.2	38	1.2	4.3	0.9	<0.1	1	6	19.4	0.2	81.4	2.7
IMA2205	Pulp			352	1.61	416	0.138	8.16	0.822	2.90	1.3	191.1	53	2.8	6.0	1.7	0.1	3	16	25.8	0.3	177.6	5.6
IMA2206	Pulp			227	1.25	522	0.170	9.19	0.305	2.36	1.6	122.3	59	3.3	5.2	1.6	<0.1	4	18	21.3	0.6	167.6	3.5

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Project:

None Given

Report Date:

December 07, 2017

Page:

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN17002708.1

Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200
		In ppm	Re ppm	Se ppm	Te ppm	Tl ppm
		0.05	0.005	1	0.5	0.5
IMA2177	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2178	Pulp	0.07	<0.005	<1	<0.5	1.0
IMA2179	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2180	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2181	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2182	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2183	Pulp	0.06	<0.005	<1	<0.5	1.1
IMA2184	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2185	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2186	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2187	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2188	Pulp	0.06	<0.005	<1	<0.5	1.4
IMA2189	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2190	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2191	Pulp	0.06	<0.005	<1	<0.5	1.3
IMA2192	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2193	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2194	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2195	Pulp	<0.05	<0.005	1	<0.5	1.1
IMA2196	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2197	Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA2198	Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA2199	Pulp	0.07	<0.005	<1	<0.5	0.8
IMA2200	Pulp	0.11	<0.005	<1	<0.5	1.5
IMA2201	Pulp	0.07	<0.005	<1	<0.5	0.8
IMA2202	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2203	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2204	Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2205	Pulp	0.08	<0.005	1	<0.5	1.2
IMA2206	Pulp	0.09	0.007	2	<0.5	1.6

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Project: None Given
 Report Date: December 07, 2017

Page: 7 of 8

Part: 1 of 3

CERTIFICATE OF ANALYSIS VAN17002703.1

Method	Analyte	MA200																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA2207	Pulp	2.0	94.0	825.4	883	0.2	83.9	32.5	214	3.93	32	5.4	9.3	31	4.3	0.2	0.3	159	0.13	0.051	20.6
IMA2208	Pulp	1.4	75.6	97.1	142	0.1	84.8	31.2	186	3.49	32	4.4	8.7	25	0.5	0.3	0.9	156	0.09	0.050	22.7
IMA2209	Pulp	1.5	66.2	27.4	50	<0.1	80.1	25.0	215	3.64	31	4.3	7.4	22	<0.1	0.3	0.9	165	0.08	0.045	16.5
IMA2210	Pulp	1.9	54.1	157.9	247	0.1	74.1	26.6	215	3.64	32	5.7	8.7	29	1.1	0.2	0.6	141	0.09	0.049	20.6
IMA2211	Pulp	2.2	44.8	211.9	389	0.2	70.6	28.3	253	3.96	34	6.3	13.5	42	1.8	0.2	0.5	128	0.11	0.047	35.1
IMA2212	Pulp	1.6	31.7	294.2	363	0.2	21.0	8.1	132	1.23	3	2.6	7.1	44	2.1	0.1	0.4	11	0.16	0.008	13.7
IMA2213	Pulp	1.8	31.8	126.8	264	0.2	27.2	10.7	93	1.80	5	4.2	10.6	50	1.2	<0.1	0.2	31	0.07	0.013	17.4
IMA2214	Pulp	1.5	32.4	109.9	265	0.1	30.5	11.6	159	2.46	4	5.6	11.9	50	1.2	0.1	0.3	24	0.06	0.011	19.1
IMA2215	Pulp	1.7	45.9	129.5	208	0.1	26.5	11.8	161	2.20	3	4.0	8.8	44	0.9	0.2	0.3	18	0.10	0.010	16.7
IMA2216	Pulp	1.9	46.7	8.5	42	<0.1	73.6	28.3	181	3.84	25	4.0	8.2	33	<0.1	0.3	0.6	170	0.23	0.049	19.6
IMA2217	Pulp	1.6	108.3	11.2	83	0.2	99.8	34.8	289	4.46	39	4.6	8.8	16	0.1	0.5	0.5	182	0.07	0.043	19.1
IMA2218	Pulp	2.0	99.2	10.7	51	0.1	97.0	37.2	264	4.69	34	4.7	9.8	17	<0.1	0.4	0.5	181	0.10	0.045	18.8
IMA2219	Pulp	1.6	133.7	17.3	77	0.2	102.6	36.7	283	4.91	32	4.2	9.5	16	0.2	0.5	0.5	160	0.09	0.046	19.7
IMA2220	Pulp	1.8	70.1	9.7	42	0.1	95.2	33.8	272	4.49	36	4.6	8.0	16	<0.1	0.4	0.4	195	0.09	0.046	14.2
IMA2221	Pulp	2.4	125.8	304.3	200	0.3	89.4	41.0	356	6.40	32	9.1	20.1	16	0.9	0.4	0.7	191	0.09	0.058	27.8
IMA2222	Pulp	2.0	46.6	172.2	223	0.2	19.9	14.0	193	3.24	9	52.0	127.7	66	0.9	0.1	0.3	58	0.13	0.039	132.1
IMA2223	Pulp	2.0	108.0	10.3	39	0.2	27.7	20.9	177	4.53	14	42.4	100.3	36	<0.1	0.3	0.1	89	0.17	0.043	105.0
IMA2224	Pulp	2.7	228.6	16.3	13	0.4	28.9	28.2	154	3.21	24	60.3	150.2	48	<0.1	0.4	0.7	65	0.16	0.044	160.8
IMA2225	Pulp	3.9	18.1	92.6	68	0.5	12.0	20.5	38	1.10	12	515.1	1394.5	21	0.2	0.3	1.8	11	0.04	0.160	1469.8
IMA2226	Pulp	6.1	5.7	33.5	12	0.2	8.6	6.3	39	0.78	4	126.8	509.9	18	0.1	0.2	0.4	11	0.03	0.065	570.5
IMA2227	Pulp	2.3	3.5	16.2	5	<0.1	6.0	2.0	36	0.55	2	35.8	200.6	16	<0.1	0.1	0.1	9	0.03	0.030	245.3
IMA2228	Pulp	2.5	9.7	17.7	9	0.1	6.2	3.5	32	0.60	2	44.6	234.3	20	<0.1	<0.1	0.3	13	0.03	0.035	291.6
IMA2229	Pulp	6.2	7.3	54.5	13	0.2	9.0	7.9	36	0.80	5	199.7	950.3	25	<0.1	0.2	0.7	13	0.04	0.115	1042.5
IMA2230	Pulp	14.1	6.6	65.7	9	0.2	11.2	12.3	46	0.93	8	403.2	1335.7	24	<0.1	0.3	1.0	15	0.09	0.155	1430.0
IMA2231	Pulp	4.5	4.2	26.4	6	0.1	7.6	3.8	40	0.66	2	95.1	438.4	21	<0.1	0.2	0.2	11	0.05	0.058	493.6
IMA2232	Pulp	4.2	4.5	24.8	28	0.1	8.3	4.6	42	0.73	4	95.4	500.5	23	<0.1	0.2	0.2	11	0.05	0.056	479.5
IMA2233	Pulp	8.5	5.5	44.2	27	0.2	8.6	7.2	53	0.82	6	245.2	807.4	21	0.2	0.3	0.4	15	0.08	0.090	776.9
IMA2234	Pulp	3.4	4.5	38.7	8	<0.1	6.3	3.7	64	0.71	2	125.2	582.1	55	<0.1	0.2	0.2	15	0.18	0.065	571.5
IMA2235	Pulp	2.6	36.5	11.9	20	0.1	50.7	19.0	452	3.24	19	14.9	50.7	71	<0.1	0.5	0.4	94	1.06	0.042	60.7
IMA2236	Pulp	1.7	20.7	6.2	27	<0.1	41.3	15.8	378	3.23	15	5.1	13.6	74	<0.1	0.4	0.2	80	0.70	0.037	24.1

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BUREAU VERITAS MINERAL LABORATORIES

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

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Part: 2 of 3

CERTIFICATE OF ANALYSIS VAN17002708 1

Method	Analyte	Unit	MA200																			
			Cr	Mg	Ba	Tl	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
		MDL	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
IMA2207	Pulp		184	1.51	410	0.142	6.53	0.735	2.89	1.2	152.0	52	2.7	6.1	1.4	0.1	2	18	25.4	0.5	174.8	4.5
IMA2208	Pulp		172	1.28	440	0.162	9.11	0.336	3.51	1.4	118.1	55	3.0	6.6	1.9	0.1	4	19	22.1	0.5	197.7	3.3
IMA2209	Pulp		160	1.34	412	0.159	8.49	0.356	3.05	1.4	114.6	42	2.8	5.5	1.9	0.2	3	16	22.8	0.3	163.9	3.3
IMA2210	Pulp		147	1.42	339	0.143	7.51	0.858	2.74	1.2	143.1	51	2.7	6.1	2.0	0.2	4	14	23.7	0.3	155.8	4.2
IMA2211	Pulp		177	1.64	302	0.121	6.40	1.284	3.50	0.9	181.4	80	2.8	8.9	1.8	0.2	3	16	26.0	0.3	171.4	5.1
IMA2212	Pulp		274	0.33	9	0.020	2.66	1.830	0.10	0.2	50.3	30	0.2	2.8	0.8	<0.1	<1	1	5.8	0.2	3.2	1.5
IMA2213	Pulp		260	0.61	50	0.038	3.67	2.109	0.56	0.3	93.0	38	0.6	3.5	1.0	0.1	<1	4	10.6	0.2	30.7	2.8
IMA2214	Pulp		373	0.84	20	0.031	3.60	2.102	0.21	0.3	89.2	40	0.3	3.3	1.0	<0.1	<1	3	13.4	0.2	10.8	2.6
IMA2215	Pulp		323	0.71	12	0.027	3.02	1.872	0.13	0.2	82.1	36	0.3	2.9	1.1	0.1	<1	2	12.0	0.2	6.3	1.8
IMA2216	Pulp		187	1.17	357	0.136	9.53	0.202	4.01	1.8	117.0	50	2.9	6.7	2.0	0.1	3	18	22.2	0.2	208.9	3.5
IMA2217	Pulp		239	1.05	593	0.479	9.08	0.073	4.00	3.4	149.6	49	3.1	6.8	11.4	1.0	3	20	32.1	0.4	247.7	4.4
IMA2218	Pulp		210	1.06	821	0.423	9.17	0.064	3.90	3.3	151.4	47	3.3	9.0	11.7	1.0	4	20	32.8	0.4	241.0	4.4
IMA2219	Pulp		236	1.08	561	0.431	8.99	0.060	4.29	2.8	139.8	50	3.3	6.8	9.9	0.9	4	19	33.6	0.5	265.6	4.2
IMA2220	Pulp		238	1.06	605	0.526	9.27	0.064	4.22	3.6	153.9	38	3.8	8.1	11.7	1.0	4	21	33.9	0.4	256.1	4.3
IMA2221	Pulp		230	1.19	576	0.527	8.96	0.076	3.75	3.0	164.6	69	3.0	10.7	12.0	1.0	4	21	33.5	0.7	235.1	4.3
IMA2222	Pulp		211	0.60	459	0.277	5.86	1.553	2.43	1.1	193.5	262	1.6	21.7	15.4	1.7	2	7	18.5	0.2	154.5	5.7
IMA2223	Pulp		255	0.91	531	0.306	6.69	1.013	3.16	1.1	188.6	217	2.6	20.3	15.6	1.8	2	12	29.7	0.1	190.4	4.9
IMA2224	Pulp		254	0.59	652	0.202	6.26	1.270	3.00	0.8	182.7	315	1.5	25.5	13.9	1.5	2	8	33.4	0.1	176.9	5.3
IMA2225	Pulp		251	0.10	417	0.282	3.73	0.050	3.04	1.3	165.2	>2000	2.8	138.5	39.1	5.1	2	2	6.2	0.5	166.6	5.0
IMA2226	Pulp		254	0.09	487	0.241	4.55	0.047	3.19	0.8	158.6	1104	2.2	46.7	25.6	3.0	2	2	4.3	0.2	186.4	4.6
IMA2227	Pulp		206	0.07	548	0.184	4.54	0.049	3.18	0.4	157.5	453	2.1	18.6	15.5	1.7	1	2	3.2	<0.1	173.9	4.4
IMA2228	Pulp		196	0.09	653	0.250	5.19	0.056	3.17	0.5	214.0	529	2.7	26.7	20.6	2.4	2	3	3.3	<0.1	180.6	6.0
IMA2229	Pulp		282	0.06	601	0.369	4.12	0.054	3.20	0.7	263.2	>2000	2.4	87.9	38.9	4.4	2	3	4.9	0.2	172.5	8.0
IMA2230	Pulp		236	0.08	508	0.413	3.77	0.048	2.39	0.8	251.1	>2000	2.9	123.7	50.4	6.0	2	3	5.9	0.4	148.1	7.5
IMA2231	Pulp		202	0.09	613	0.239	4.75	0.060	3.30	0.3	174.3	939	2.4	44.2	23.6	2.7	1	2	3.9	<0.1	181.8	4.7
IMA2232	Pulp		271	0.09	669	0.194	4.92	0.067	3.35	0.5	169.1	933	2.1	45.7	18.0	2.0	2	2	4.1	<0.1	174.3	4.9
IMA2233	Pulp		226	0.11	544	0.327	4.25	0.149	3.06	0.6	266.6	1530	2.4	78.7	32.9	3.9	2	3	6.0	0.2	157.1	7.7
IMA2234	Pulp		200	0.13	359	0.201	4.01	1.121	2.39	0.5	168.4	1133	2.0	48.3	18.7	2.1	2	2	3.9	<0.1	115.4	4.7
IMA2235	Pulp		233	1.36	383	0.133	7.26	1.426	2.87	0.7	210.3	129	2.1	11.5	3.3	0.3	2	12	21.4	0.1	193.0	5.9
IMA2236	Pulp		182	1.54	282	0.097	6.72	1.866	2.55	0.6	188.4	54	1.5	6.2	1.6	0.1	2	10	18.1	<0.1	151.3	5.3

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Project: None Given
Report Date: December 07, 2017

Page: 7 of 8

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN17002708 1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	Ti
		MDL	ppm	ppm	ppm	ppm	ppm
			0.05	0.005	1	0.5	0.5
IMA2207	Pulp		0.09	<0.005	2	<0.5	1.4
IMA2208	Pulp		0.09	0.009	2	<0.5	1.8
IMA2209	Pulp		0.07	<0.005	2	<0.5	1.4
IMA2210	Pulp		0.07	<0.005	<1	<0.5	1.2
IMA2211	Pulp		0.08	<0.005	<1	<0.5	1.0
IMA2212	Pulp		<0.05	<0.005	1	<0.5	<0.5
IMA2213	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2214	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2215	Pulp		<0.05	<0.005	2	<0.5	<0.5
IMA2216	Pulp		0.11	<0.005	<1	<0.5	1.7
IMA2217	Pulp		0.10	0.008	1	<0.5	1.8
IMA2218	Pulp		0.07	0.008	3	<0.5	1.9
IMA2219	Pulp		0.11	0.005	2	0.6	1.6
IMA2220	Pulp		0.12	0.011	3	<0.5	1.9
IMA2221	Pulp		0.08	0.010	4	0.6	1.5
IMA2222	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2223	Pulp		0.09	<0.005	<1	<0.5	0.9
IMA2224	Pulp		<0.05	<0.005	2	<0.5	0.9
IMA2225	Pulp		0.05	<0.005	<1	<0.5	0.6
IMA2226	Pulp		<0.05	<0.005	<1	<0.5	0.7
IMA2227	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2228	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2229	Pulp		<0.05	<0.005	2	<0.5	0.8
IMA2230	Pulp		<0.05	<0.005	2	<0.5	0.7
IMA2231	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2232	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2233	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2234	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2235	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2236	Pulp		<0.05	<0.005	<1	<0.5	0.7

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Project: None Given
 Report Date: December 07, 2017

Page: 1 of 2 Part: 1 of 3

QUALITY CONTROL REPORT VAN17002708.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
Pulp Duplicates			0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	1	0.01	0.001	0.1	
IMA2057	Pulp		3.3	8.8	32.7	189	0.2	41.8	25.1	949	6.87	2	100.1	38.4	198	<0.1	0.3	<0.1	118	3.01	0.114	43.3
REP IMA2057	QC		3.2	8.6	31.4	182	0.2	41.2	24.4	932	6.72	3	94.2	38.8	194	<0.1	0.2	<0.1	118	3.00	0.114	45.4
IMA2093	Pulp		4.0	8.7	51.5	13	0.1	7.5	15.7	39	0.66	30	75.2	333.5	19	<0.1	0.1	0.8	13	0.02	0.044	379.2
REP IMA2093	QC		4.3	8.1	50.1	13	0.1	7.8	15.3	37	0.63	29	72.8	325.3	20	<0.1	0.1	0.8	13	0.01	0.043	367.8
IMA2129	Pulp		<0.1	12.0	38.1	117	<0.1	20.2	7.8	3250	2.02	4	0.5	1.2	4000	0.4	<0.1	<0.1	14	35.35	0.035	383.5
REP IMA2129	QC		0.2	10.7	38.3	123	<0.1	21.3	7.8	3194	2.03	<1	0.5	1.3	3911	0.4	<0.1	<0.1	14	34.96	0.035	371.3
IMA2185	Pulp		4.8	59.2	23.9	5	0.2	9.1	15.6	27	0.63	16	93.2	490.4	23	<0.1	0.2	1.8	9	0.03	0.088	596.9
REP IMA2185	QC		5.5	57.9	23.3	4	0.2	8.8	15.6	26	0.63	15	91.6	480.2	23	<0.1	0.2	1.8	9	0.04	0.087	597.2
IMA2201	Pulp		3.0	281.3	28.8	14	0.2	20.3	30.7	271	2.04	47	30.0	72.8	49	0.2	0.2	1.0	43	0.13	0.025	98.8
REP IMA2201	QC		3.1	281.2	28.5	12	0.2	19.8	30.5	273	2.04	45	30.6	74.5	49	0.1	0.2	0.8	43	0.13	0.025	97.8
IMA2237	Pulp		0.9	92.9	41.9	136	0.1	58.4	54.1	1423	10.74	28	1.0	4.2	82	0.1	0.3	<0.1	363	5.12	0.104	20.4
REP IMA2237	QC		0.8	84.3	41.7	134	0.1	54.1	50.8	1348	10.14	25	0.9	4.0	79	<0.1	0.2	<0.1	331	4.81	0.099	18.7
Reference Materials																						
STD OREAS25A-4A	Standard		2.4	35.4	25.0	48	<0.1	44.7	7.7	507	6.81	9	2.7	15.4	51	<0.1	0.7	0.4	154	0.30	0.051	22.8
STD OREAS25A-4A	Standard		2.5	36.8	28.3	44	<0.1	47.7	7.9	526	6.74	10	3.1	17.4	52	<0.1	0.7	0.4	154	0.31	0.052	24.5
STD OREAS25A-4A	Standard		2.5	37.6	28.1	51	<0.1	47.4	7.9	515	6.90	10	3.0	15.9	53	<0.1	0.8	0.4	160	0.32	0.054	21.9
STD OREAS25A-4A	Standard		2.4	34.4	24.2	48	<0.1	43.7	7.6	491	6.45	11	2.7	13.8	47	<0.1	0.5	0.4	165	0.26	0.050	17.3
STD OREAS25A-4A	Standard		2.1	36.6	24.7	49	<0.1	44.4	7.5	517	6.74	10	2.9	16.1	53	<0.1	0.7	0.4	158	0.29	0.053	22.5
STD OREAS25A-4A	Standard		2.7	36.2	25.2	50	<0.1	45.8	7.7	511	6.84	12	2.9	15.4	52	<0.1	0.8	0.4	160	0.32	0.052	21.2
STD OREAS45E	Standard		2.2	779.7	18.8	50	0.3	468.9	58.7	569	24.49	18	2.5	13.7	17	<0.1	1.2	0.3	320	0.08	0.033	11.2
STD OREAS45E	Standard		2.4	790.4	20.4	48	0.3	495.9	60.3	590	26.84	17	2.7	15.0	17	<0.1	1.2	0.3	340	0.08	0.032	12.3
STD OREAS45E	Standard		2.3	745.6	20.2	51	0.4	466.3	61.7	581	26.39	18	2.5	12.9	18	<0.1	1.1	0.3	324	0.07	0.034	9.8
STD OREAS45E	Standard		2.3	822.4	19.3	53	0.4	514.7	62.0	601	25.14	19	2.5	13.4	19	<0.1	1.2	0.3	340	0.06	0.037	8.3
STD OREAS45E	Standard		2.2	809.2	18.8	51	0.4	475.7	59.1	586	24.80	16	2.4	13.1	18	<0.1	1.0	0.3	329	0.07	0.036	10.6
STD OREAS45E	Standard		2.2	793.5	18.5	51	0.4	471.0	59.1	585	24.38	18	2.4	13.2	18	<0.1	1.2	0.4	324	0.07	0.036	11.1
STD OREAS25A-4A Expected			2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283	0.0495	21.8
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1

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Project: None Given
Report Date: December 07, 2017

Page: 1 of 2 Part: 2 of 3

QUALITY CONTROL REPORT VAN17002708 1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
				Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Pulp Duplicates																							
IMA2057	Pulp			116	2.25	142	1.036	7.44	3.679	2.88	0.5	223.4	114	9.5	136.5	67.5	3.2	6	12	231.6	<0.1	361.3	7.5
REP IMA2057	QC			112	2.25	139	1.025	7.56	3.605	2.87	0.5	213.5	122	8.8	139.8	66.2	3.1	5	12	220.1	<0.1	368.0	6.8
IMA2093	Pulp			194	0.13	451	0.178	4.40	0.051	3.58	0.3	185.5	760	3.0	36.1	14.6	1.6	2	2	4.7	<0.1	187.0	4.6
REP IMA2093	QC			185	0.13	439	0.179	4.37	0.049	3.41	0.3	173.4	747	2.7	35.8	15.0	1.6	3	2	4.1	<0.1	177.2	5.0
IMA2129	Pulp			13	1.22	379	0.145	0.73	0.091	0.92	0.2	0.8	796	0.3	273.7	12.8	<0.1	<1	<1	247.4	<0.1	133.8	<0.1
REP IMA2129	QC			13	1.20	377	0.143	0.72	0.090	0.92	0.2	1.3	775	0.2	268.5	12.7	<0.1	<1	<1	247.1	0.1	131.5	<0.1
IMA2165	Pulp			158	0.06	816	0.140	3.46	0.055	4.12	1.0	122.1	1161	1.6	48.1	18.4	1.9	1	2	3.8	0.2	184.8	3.6
REP IMA2165	QC			162	0.06	801	0.144	3.31	0.052	4.21	0.8	116.2	1151	1.6	47.0	17.0	1.9	1	2	3.3	0.2	176.4	3.3
IMA2201	Pulp			259	0.31	956	0.107	5.24	1.231	3.15	1.0	388.1	192	1.0	10.6	6.5	0.8	<1	5	6.6	0.1	147.7	11.0
REP IMA2201	QC			254	0.30	972	0.099	5.30	1.224	3.10	0.8	395.6	197	1.0	11.1	5.8	0.5	<1	5	6.2	0.1	149.5	11.3
IMA2237	Pulp			78	3.39	17	0.242	6.66	1.470	0.22	0.2	106.1	43	0.6	9.7	2.8	0.2	<1	38	50.8	0.2	10.6	2.8
REP IMA2237	QC			71	3.21	15	0.223	6.56	1.393	0.22	0.2	103.2	40	0.5	9.3	2.6	0.2	<1	36	50.0	0.2	9.8	2.7
Reference Materials																							
STD OREAS25A-4A	Standard			114	0.34	151	0.888	9.52	0.138	0.52	1.7	150.0	51	4.0	10.0	18.7	1.3	<1	13	38.4	<0.1	62.7	4.0
STD OREAS25A-4A	Standard			127	0.34	159	0.950	9.08	0.141	0.54	1.9	152.1	51	4.0	11.1	19.6	1.4	<1	14	38.1	<0.1	61.2	4.1
STD OREAS25A-4A	Standard			111	0.34	157	1.053	9.60	0.145	0.52	2.1	187.5	50	4.4	11.6	21.9	1.6	<1	13	38.7	<0.1	61.4	4.4
STD OREAS25A-4A	Standard			114	0.32	151	0.955	8.69	0.135	0.49	2.3	151.4	42	3.9	9.0	19.6	1.5	<1	12	38.0	<0.1	54.2	4.1
STD OREAS25A-4A	Standard			107	0.34	158	0.980	9.33	0.143	0.53	2.3	159.3	53	4.2	11.2	20.5	1.5	<1	13	38.9	<0.1	62.1	4.4
STD OREAS25A-4A	Standard			111	0.34	159	0.970	9.44	0.143	0.52	1.9	160.9	50	4.3	10.9	20.8	1.5	<1	12	39.2	<0.1	61.9	4.2
STD OREAS45E	Standard			970	0.16	258	0.521	7.08	0.056	0.35	1.1	93.1	26	1.4	8.1	6.1	0.5	<1	93	7.3	<0.1	21.5	2.8
STD OREAS45E	Standard			979	0.16	265	0.549	6.92	0.060	0.36	1.1	93.5	25	1.3	8.8	6.3	0.5	<1	102	7.3	<0.1	22.1	3.1
STD OREAS45E	Standard			941	0.16	267	0.602	6.75	0.059	0.35	1.2	115.4	23	1.4	8.1	7.2	0.6	<1	95	7.7	<0.1	23.4	3.5
STD OREAS45E	Standard			1113	0.16	274	0.551	7.32	0.062	0.38	1.1	99.7	27	1.3	8.6	6.7	0.5	<1	99	7.8	<0.1	22.5	3.0
STD OREAS45E	Standard			1074	0.17	283	0.557	7.09	0.059	0.36	1.0	97.5	26	1.5	8.1	6.2	0.5	<1	98	7.3	<0.1	21.2	2.9
STD OREAS45E	Standard			979	0.17	263	0.535	7.25	0.059	0.37	1.1	98.4	26	1.4	8.2	6.3	0.5	<1	95	7.3	<0.1	20.9	2.9
STD OREAS25A-4A Expected				120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047	61	4.28
STD OREAS45E Expected				979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank			3	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1

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BUREAU MINERAL LABORATORIES
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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

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Part: 3 of 3

QUALITY CONTROL REPORT

VAN17002708.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	Tl
		MDL	ppm	ppm	ppm	ppm	ppm
			0.05	0.005	1	0.5	0.5
Pulp Duplicates							
IMA2057	Pulp		0.11	<0.005	<1	<0.5	2.8
REP IMA2057	QC		0.08	<0.005	<1	<0.5	2.7
IMA2093	Pulp		<0.05	<0.005	<1	<0.5	0.8
REP IMA2093	QC		<0.05	<0.005	<1	<0.5	0.8
IMA2129	Pulp		<0.05	<0.005	<1	4.4	1.0
REP IMA2129	QC		<0.05	<0.005	<1	5.8	0.9
IMA2165	Pulp		<0.05	<0.005	<1	<0.5	0.8
REP IMA2165	QC		<0.05	<0.005	<1	<0.5	0.8
IMA2201	Pulp		0.07	<0.005	<1	<0.5	0.8
REP IMA2201	QC		<0.05	<0.005	<1	<0.5	0.8
IMA2237	Pulp		0.10	<0.005	<1	<0.5	<0.5
REP IMA2237	QC		0.08	<0.005	<1	0.6	<0.5
Reference Materials							
STD OREAS25A-4A	Standard		0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.14	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard		0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.07	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard		0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard		0.09	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard		0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.07	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.11	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard		0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.11	<0.005	4	<0.5	<0.5
STD OREAS25A-4A Expected			0.09		2.5		0.35
STD OREAS45E Expected			0.099		2.97	0.1	0.09
BLK	Blank		<0.05	<0.005	<1	<0.5	<0.5

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BUREAU VERITAS MINERAL LABORATORIES
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Client: **MacGregor, R.A.**
 28 Ford St.
 Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
 Report Date: December 07, 2017

Page: 2 of 2

Part: 1 of 3

QUALITY CONTROL REPORT VAN17002708-1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: December 07, 2017

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Part: 2 of 3

QUALITY CONTROL REPORT VAN/7002708.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Cr	Mg	Ba	Tl	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.3	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.3	<0.1
BLK	Blank	2	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.4	<0.1
BLK	Blank	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.2	<0.1

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 28 Ford St.
 Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
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Part: 3 of 3

QUALITY CONTROL REPORT VAN17002708.1

		MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Ti
		ppm	ppm	ppm	ppm	ppm
		0.05	0.005	1	0.5	0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.006	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5

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Appendix III

Cost Receipts

Costs

Report	Nov. 8, 2019		500.00
Analysis			
	Jan. 30/18	4365.60	
	March 18/18	530.40	4896.00
	Dec. 7/17		564.05x
Sample Prep.			
	Oct. 13/17	191 samples @ \$8.00/sample	
	Nov. 03/17	49 samples @ \$10.00/sample	2018.00x
Sample collection, travel, accommodation, meals			
	Aug.21/17 to Oct. 20/17		
		9 days @ \$400/day	
		8 days @ \$125/day	5834.00x
Sample packaging and shipping			
	Nov.28/17	1 day @ \$400/day	
		Shipping 42.56	442.56x
	Feb. 24/18	¼ day @ \$400/day	
		Shipping 39.13	139.13
Archiving samples			
	June 16/18 – July 14/18		
		2 days @ \$400/day	800.00
Supplies- sample bags, vials, envelopes			
	Aug. 21/17 – Nov. 28/17		200.00x
		Total	15,393.74

X over 2 years



DRILL HOLE REPORT

Hole Number **NA-07-01**

Project **AGNEW LAKE URANIUM**

Project Number

Drilling	Casing	Core	Location	Other
Azimuth: 346.00	Length: 12	Dimension: NQ	Township: HYMAN TW	Logged by: Elizabeth Vida
Dip: -45.00	Pulled:	Storage: Bell Transport	Claim No.:	Re-log by:
Length: 147.00	Capped: yes	Hole Type: DD	NTS:	Contractor: Downing Estates
Started: 29-May-07	Cemented:		Hole: SURFACE	Spotted by: David Meyer
Completed: 30-May-07				Surveyed:
Logged: 18-Jun-07				Surveyed by:
Comment:				Geophysics:

Coordinate - UTM

Coordinate - Alternate

East: 0	East: 451910
North: 0	North: 5141908
Elev.: 0	Elev.: 302

Zone: 12Q NAD, NAD83

Target: Uranium

Left in hole:

Making water:

Info about drilling:

Deviation Tests

Distance	Azimuth	Dip	Type	Comments
0.00	346.00	-45.00	C	
44.00	343.10	-43.10	F1	
94.00	349.80	-42.00	F1	
144.00	347.20	-42.10	F1	



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project: AGNEW LAKE URANIUM PROJ

Project Number: 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
10.42	11.74	11Ad Greywacke Broken and rusted core. Casing from 0 to 12 m.											
11.74	12.21	11K Siltstone											
12.21	15.00	11o Mudstone											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
15.00	18.49	11K Siltstone											
18.49	33.88	11Ad Greywacke Minor interbedded siltstone and mudstone beds, very thin beds. Ground core from 18 to 19.25 m and 26.69 to 27 m											
33.88	43.16	11K Siltstone											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project: AGNEW LAKE URANIUM PROJ

Project Number: 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
43.18	51.72	11p Pebble Conglomerate interbedded greywackes and siltstone beds											
(43.67	- 44.32)	11K Siltstone interbedded siltstone and greywacke beds											
(45.43	- 46.21)	11K Siltstone interbedded siltstone and greywacke beds											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project: AGNEW LAKE URANIUM PROJ

Project Number: 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni (ppm)	Pt (ppb)	Cu (ppm)	NiS (%)	Gp (%)
							ICP	WR					
48.25	48.25	11K Siltstone Interbedded siltstone and greywacke beds.											
48.42	50.48	11K Siltstone Interbedded siltstone and greywacke beds.											
51.00	51.72	11K Siltstone Interbedded siltstone and greywacke beds.											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
51.72	58.86	11p											
		<i>Pebble Conglomerate</i>											
58.86	61.23	11K											
		<i>Siltstone</i>											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
61.23	61.85	11Ae											
		Quartz Arenite											
61.85	65.78	11K											
		Siltstone											
65.78	71.48	11Ae											
		Quartz Arenite											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number 001

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni (ppm)	Pr (ppb)	Cu (ppm)	NiS (%)	Gp (%)
							ICP	WR					
71.46	74.34	11Ad	Greywacke										
74.34	78.00	11K	Siltstone										
78.00	89.18	11Ad	Greywacke Minor pebble quartz conglomerate interbedded within the greywacke and siltstone beds - 2 cm to 9 cm thick.										



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number: 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
89.18	89.67	11Ae	Quartz Arenite										
99.67	91.64	11Ae	Quartz Arenite										
91.64	121.38	11N	Conglomerate Pebbly Quartzite										



LITHOLOGY REPORT

- Detailed -

Hole Number NA-07-01

Project AGNEW LAKE URANIUM PROJ

Project Number: 001

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							JCP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
121.38	124.12	11Aa	Quartzite										
124.12	130.00	11L	Argillite										
130.00	136.20	11Ad	Greywacke										

Lithology Report

Project # 1

H.L. NA-07-01

Agnew Lake Uranium Mine
Lithology

From (m) To (m)

36.20 - 137.09 11L Argillite

137.09 - 144.78 11C0 Dry Sandstone

144.78 - 147.00 11D₂ Quartzite

File 27/08

646

5100 Elev.

Claim 1248700

5000 Elev.

Az 346

Az 345

4900 Elev.

147.00 EOH

NA07-01

Assay Values U ppm

4800 Elev.



-25 0 25 50 75 100
Scale 1:1500

4700 Elev.

NA07-13

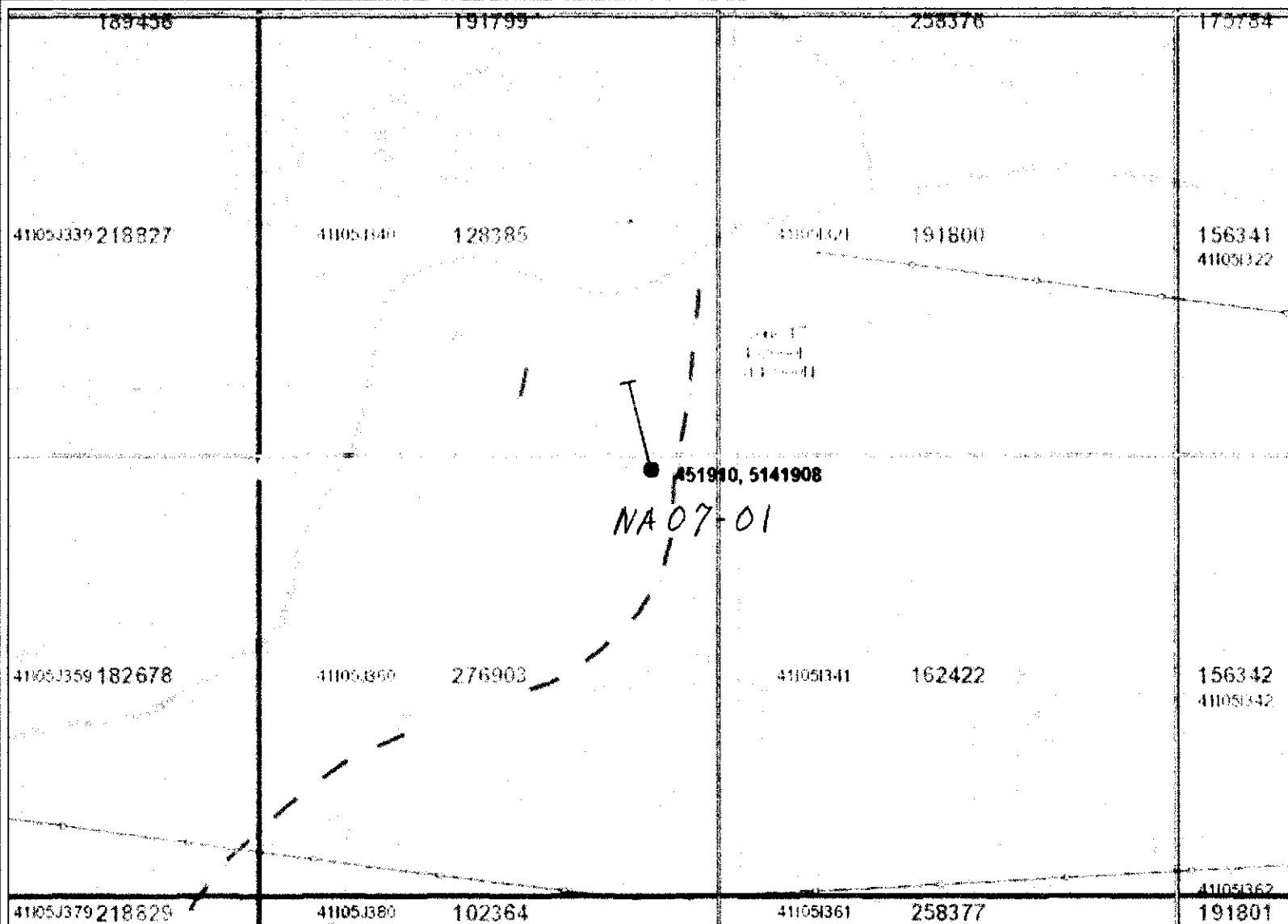
341.00 EOH

-100 S

NYAH Resources
Agnew Lake Project

Section 3+00E

Section Looking East



Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
 - Notice
- ENDM Administrative Boundaries**
 - ENDM Townships and Areas
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 - CLUPA Protected Area - Far North
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 - Native Reserves
 - AMIS Sites
 - AMIS Features
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 - Mineral Occurrences
- MLAS Mining History**
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 - Mining Claim - History
 - Mining Land Tenure - History
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 - Provincial Grid 50K
 - Provincial Grid Group
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 - Mining Rights
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Projection: Web Mercator



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LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
16.80	23.43	11Ad Greywacke <i>Note: 6.44 to 16.8 m looks like casing (overburden). Spoke to drillers and foreman remembers 1.8 m of casing.</i> <i>CASING ??</i>											
23.43	23.89	11K Siltstone											
23.89	35.93	11Ad Greywacke Minor interbedded siltstone beds (thin)											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
36.93	44.74	11K	Siltstone										
44.74	45.36	11p	Pebble Conglomerate										
45.36	45.86	11K	Siltstone										



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
45.58	45.86	11Ad											
		Greywacke											
45.86	47.34	11p											
		Pebble Conglomerate											
47.34	48.13	11Ad											
		Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number: NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
48.13	49.45	11p											
(48.14	48.26)	11Ad											
		Greywacke											
(48.62	48.74)	11Ad											
		Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
48.82	48.89	11Aa											
		Quartzite											
48.93	49.01	11Aa											
		Quartzite											
49.45	52.31	11Ad											
		Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number: NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni (ppm)	Pt (ppb)	Cu (ppm)	Nis (%)	Sp (%)
							ICP	WR					
52.31	53.30	11Aa	Quartzite										
53.30	55.05	11Ad	Greywacke										
55.06	57.15	11Ad	Greywacke Spotted alteration? Increases in intensity from geological contact to contact (i.e. W to MS).										



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		NI	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
57.15	59.97	11Ae											
		Quartz Arenite											
59.97	61.54	11N											
		Conglomerate Peboly Quartzite											
61.54	64.03	11Aa											
		Quartzite											



LITHOLOGY REPORT

- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni (ppm)	Pt (ppb)	Cu (ppm)	NiS (%)	Gp (%)
							ICP	WR					
64.03	65.10	11Ad Greywacke											
65.10	66.47	11Ad Greywacke Spotted alteration? Decreases in intensity from geological contact to contact. (i.e. MS to W)											
66.47	74.63	11K Siltstone Interbedded siltstone and vfg greywacke.											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
(65.47	67.07)	11Ad vfg Greywacke											
(70.25	71.61)	11Ad vfg Greywacke											
(71.90	73.20)	11Ad vfg Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project AGNEW LAKE URANIUM

Project Number.

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
74.69	75.98	11N											
		Conglomerate Pebbly Quartzite											
75.98	78.40	11Ad											
		Greywacke											
78.40	80.37	11K											
		Siltstone											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)		(%)
80.37	108.35	11N Conglomerate Pebbly Quartzite											
108.35	109.50	11K Siltstone											
109.60	120.48	11Aa Quartzite Basal Quartzite?											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-02

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
120.48	135.73	11K	Siltstone										
135.73	145.25	11Ad	Greywacke										
145.25	150.29	11K	Siltstone										

5100 Elev.

Claim 1248700

5000 Elev.

Az 346

Az 346

4900 Elev.

NA07-02

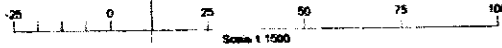
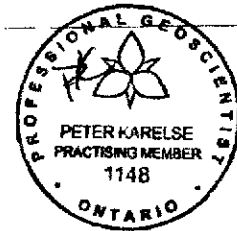
150.29 EOH

Assay Values U ppm

NA07-05

280.12 EOH

4800 Elev.



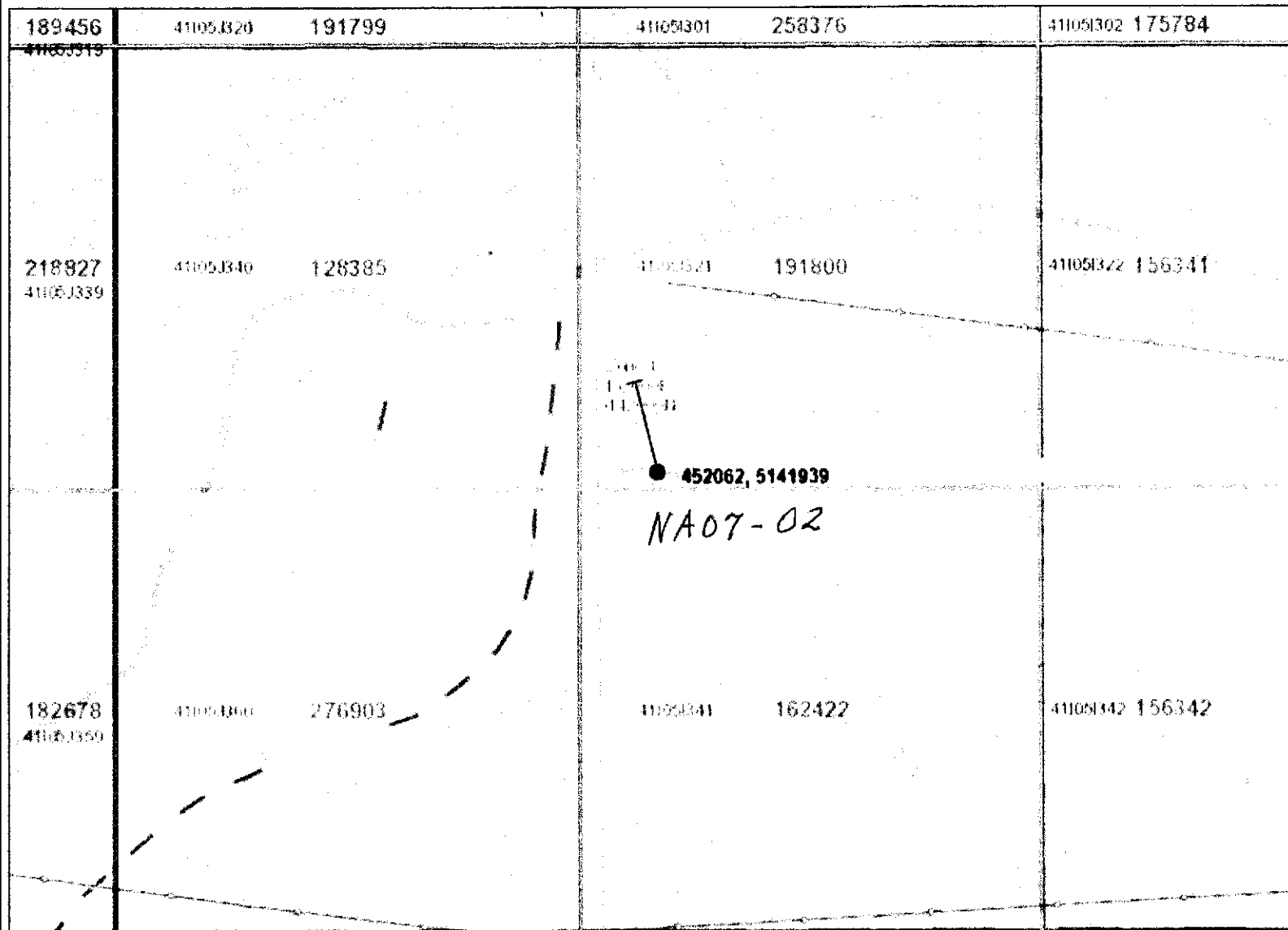
4700 Elev.

-100 S

NYAH Resources
Agnew Lake Project

Section 5+00E

Section Looking East



Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
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 - BNDM Townships and Areas
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 - UTM Grid 10K
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 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
 - AMIS Sites
 - AMIS Features
 - Dull Hole
 - Mineral Occurrences
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
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- Land Tenure**
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Projection: Web Mercator



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DRILL HOLE REPORT

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

Drilling	Casing	Core	Location	Other
Azimuth: 354.00	Length: 7.04	Dimension: NQ	Township: HYMAN TW	Logged by: Elizabeth Vida
Dip: -45.00	Putted:	Storage: Bell Transpor	Claim No.:	Relog by:
Length: 161.25	Capped: yes	Hole Type: DD	NTS:	Contractor: Downing Estates
Started: 02-Jun-07	Cemented:		Hole: SURFACE	Spotted by: Harold Traccone
Completed: 04-Jun-07				Surveyed:
Logged: 23-Jun-07				Surveyed by:
				Geophysics:

Comment: Note: Drillers say edh = 154.75 m. But measured core says EDH = 161.25m

Coordinate - UTM

Coordinate - Alternate

East: 0 **East:** 451762

North: 0 **North:** 5141878

Elev.: 0 **Elev.:** 399

Zone: 17T **NAD:** NAD83

Target: Uranium

Left in hole:

Making water:

Multi shot survey:

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Comments</i>
0.00	354.00	-45.00	C	
44.00	353.60	-46.00	FI	
94.00	354.00	-46.40	FI	
144.00	353.20	-46.30	FI	



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)		Lithology	Sample #	From	To	Length	Analysis Type ICP WR	Ni (ppm)	Pt (ppb)	Cu (ppm)	Nis	Gp (%)
7.04	22.52	11Ad	Greywacke										
22.52	31.47	11K	Siltstone										
31.47	34.97	11p	Pebble Conglomerate										



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)		(%)
34.97	36.13	11Ad Greywacke											
36.13	37.59	11Ad Greywacke Spotted alteration? Increases in intensity (i.e. VM to M) from upper contact to lower contact as well as size range from 0.2 cm to <0.1 mm in diameter.											
37.59	38.76	11Ae Quartz Arenite											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni (ppm)	Pt (ppb)	Cu (ppm)	Nis (%)	Gp (%)
							ICP	WR					
38.75	40.74	11N Conglomerate Pebbly Quartzite											
40.74	43.68	11Ad Greywacke											
43.68	44.60	11As Quartzite											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
44.60	46.60	11Ad Greywacke Spotted alteration? Decreases in intensity (i.e. W to W) from upper contact to lower contact. Spotted alteration also ranges from from 0.5 cm to 2 mm in diameter.											
46.60	63.60	11K Siltstone											
66.60	68.17	11Ad Greywacke Spotted alteration? Parallel to foliation											



LITHOLOGY REPORT
- Detailed -

Hole Number: NA-07-03

Project: AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppc)	(ppm)	(%)	(%)
68.17	68.64	11N	Conglomerate Pebbly Quartzite										
68.64	74.38	11Ae	Quartz Arenite										
74.38	84.56	11K	Siltstone										



LITHOLOGY REPORT

- Detailed -

Hole Number: NA-07-03

Project: AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)		(%)
84.56	87.40	11Ad Greywacke Thin bed of interbedded qtz phl conglomerate - minor.											
87.40	88.41	11Ad Greywacke Siltified											
88.41	89.60	11Ad Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Sample #	Lithology	From	To	Length	Analysis Type		Ni (ppm)	Pb (ppb)	Cu (ppm)	NiS (%)	Gp (%)
							ICP	WR					
89.60	90.49	11K	Siltstone										
90.49	90.90	11Ad	Greywacke Spotted alteration.										
90.90	135.00	11N	Conglomerate Pebbly Quartzite										



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)		(%)
135.00	140.92	11Aa											
		Quartzite											
140.92	145.99	11K											
		Siltstone											
(141.42	143.07)	11Ad											
		Greywacke											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							JCP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
143.37	144.05	11Ad Greywacke											
145.99	156.00	11Ad Greywacke Smokey qtz vn running sub-parallel to core axis from 149 to 149.5 m and 150 to 151 m.											
156.00	161.25	11Ad Greywacke Interbedded siltstone.											



LITHOLOGY REPORT
- Detailed -

Hole Number NA-07-03

Project AGNEW LAKE URANIUM

Project Number:

From (m)	To (m)	11K	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
								ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
156.00	156.30	11K	Siltstone											
156.51	156.73	11K	Siltstone											
157.74	158.00	11K	Siltstone											



LITHOLOGY REPORT
- Detailed -

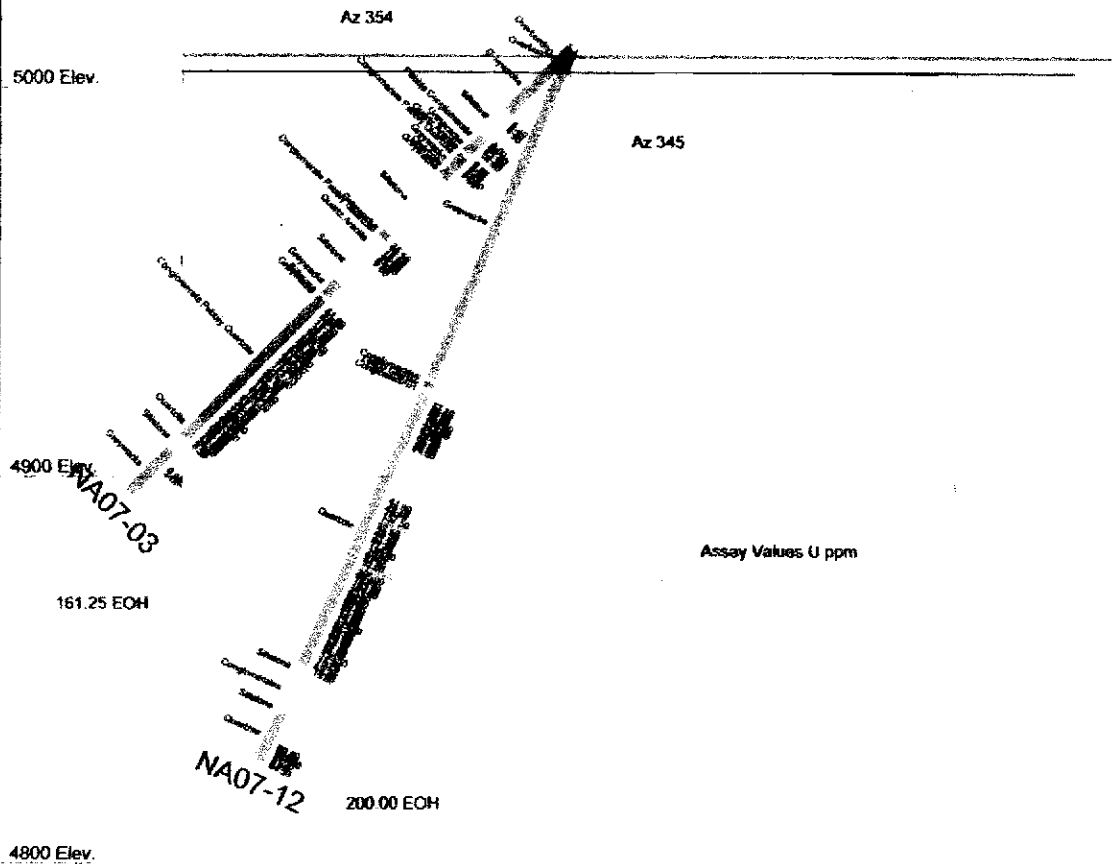
Hole Number NA-07-03

Project AGNEW LAKE URANIUM

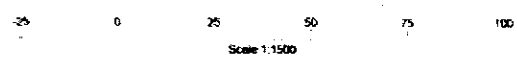
Project Number

From (m)	To (m)	Lithology	Sample #	From	To	Length	Analysis Type		Ni	Pt	Cu	Nis	Gp
							ICP	WR	(ppm)	(ppb)	(ppm)	(%)	(%)
160.21	160.41	11K											
		Siltstone											

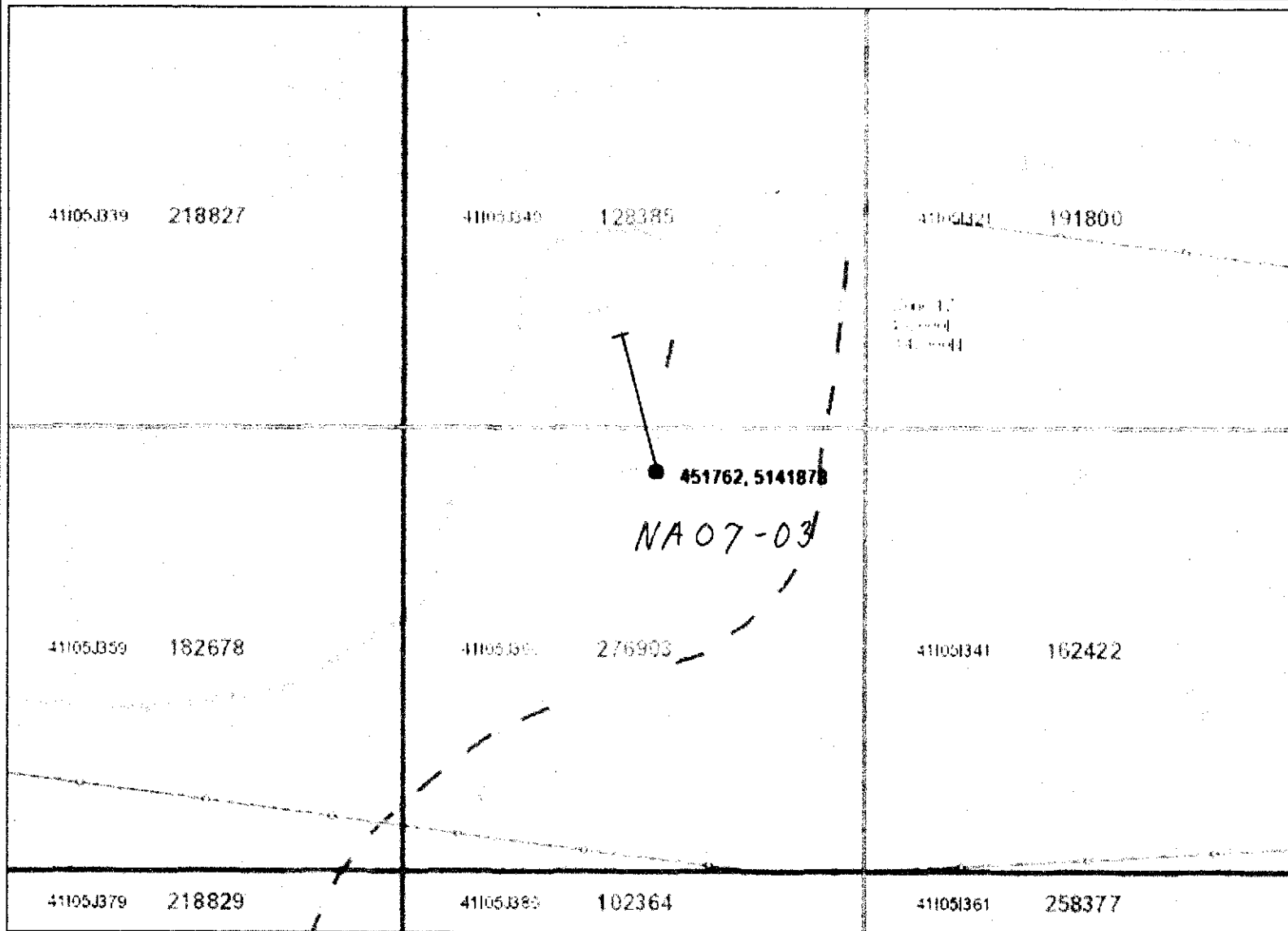
Claim 1248700



Assay Values U ppm



NYAH Resources
Agnew Lake Project
Section 2+00E
Section Looking East



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